



Remediation Summary and Closure Request

**BTA Oil Producers, LLC
Pardue D 8808 Tank Battery
Eddy County, New Mexico
Unit Letter "D", Section 11, Township 23 South, Range 28 East
Latitude 32.324587 North, Longitude 104.064218 West
NMOCD Incident # NAB1911230564**

Prepared For:

BTA Oil Producers, LLC
104 S. Pecos St.
Midland, TX 79701

Prepared By:

Hungry Horse, LLC
4024 Plains Hwy
Lovington, NM 88260
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October 2024

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HUNGRY HORSE, LLC

The following *Remediation Summary and Closure Request* serves as a condensed update on field activities undertaken at the afore referenced Site.

Background:

The site is located in Unit Letter D (NW/NW), Section 11, Township 23 South, Range 28 East, approximately two miles Northeast of Loving, in Eddy County, New Mexico. The location is located on private land. Topographic Map, OSE POD Locations Map, and USGS Well Locations Map are included as Figure 1, Figure 2, and Figure 3, respectively.

The release occurred at an active tank battery; Latitude 32.324587 North, Longitude 104.064218 West. The Initial NMOCD Form C-141 indicated that on April 2, 2019 two produced water tanks in the tank battery were overfilled and spilled into the lined containment. No fluid left containment. Approximately one bbl of oil and 122 bbls of produced water were released. Approximately one bbl of oil and 120 bbls of produced water were recovered via vacuum truck. Previously submitted pages of the NMOCD Form C-141 are available on the NMOCD Imaging System.

NMOCD Site Classification:

A search of the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) groundwater databases was completed in an effort to determine the horizontal distance to known water sources within a half mile radius of the Release Site. Approximate depth to groundwater was determined using maintained and published water well data. Karst mapping indicates the site is located in a Gypsum Karst designated area. Depth to groundwater information is provided as Attachment III and results are depicted on Figures 2 & 3.

Six wells were located within a half mile of the release area with listed depths to water ranging from ten to sixteen feet bgs. Additionally, as the site is located in a Gypsum Karst designated area, the site will be remediated according to the strictest NMOCD Closure Criteria. Utilizing this information, the NMOCD Closure Criteria for the Site is depicted in the table below.

Depth to Groundwater	Constituent	Method	Limit
<50'	Chloride	EPA 300.0 or SM4500 CLB	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	100 mg/kg
	GRO + DRO	EPA SW-846 Method 8015M Ext	NA
	BTEX	EPA SW-846 Methods 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Methods 8021B or 8260B	10 mg/kg

A United States Department of Agriculture (USDA) Web Soil Survey was completed to determine soil types in the area of remediation. Web Soil Survey indicates the area is located in the Atoka loam complex comprised of loam soils with 0 to 1 percent slopes. As the area is located on an active tank battery pad, no seeding will be required. Karst, Wetland, and Soil Maps are provided as Attachment I.



Delineation and Remediation Activities:

On July 17, 2023, Hungry Horse conducted an initial site assessment consisting of mapping and photographing the release area. As the release occurred within a lined containment, the gravel was removed and a liner inspection was scheduled. On August 14, 2023, Hungry Horse LLC notified NMOCD that a liner inspection would be conducted on August 16, 2023. On August 16, 2023, the liner inspection was conducted. Correspondence is provided as Attachment II. The containment liner failed inspection as multiple tears were found. Completed Liner Inspection Report provided as Attachment VI.

In preparation of remediation activities, BTA dismantled and moved the tank battery. With the tank battery moved, liner and gravel scraped up and hauled to disposal, delineation samples were collected. On May 14, 2024 Hungry Horse personnel conducted delineation sampling. During sampling, sample test trenches were advanced at the four edges of the affected area in an effort to determine the vertical extent of contamination. These sample locations are identified by SP designation. In addition, at the request of BTA, a sample test trench, GPS 32.325917, -104.065307, was advanced approximately 580 feet Northwest of the affected area in an effort to determine the background chloride level. This sample location is identified by BG designation. During the advancement of the sample test trenches, soil samples were collected and field screened for the presence of chloride concentrations utilizing a Hach Quantab® chloride test kit.

Based on field observations and field test data noted above and provided in Attachment V, five representative soil samples were selected for laboratory analysis. Delineation soil samples SP1N, SP2E, SP3S, SP4W, and BG2 were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in each of the submitted samples.

From July 12 – August 12, 2024, the release area was excavated. Excavated contaminated soil was temporarily stockpiled onsite, within the affected area, before transport to an NMOCD approved disposal facility.

On August 14, 2024, Hungry Horse LLC notified NMOCD that thirty-six closure samples would be collected on August 16, 2024. Correspondence is provided as Attachment II.

On August 16, 2024, thirty-six composite confirmation soil samples were collected from the excavation floor and sidewalls, with each sample representing no more than 200 square feet. A composite soil sample was also collected from the caliche backfill pit for analysis. Soil samples FL1 through FL28, SW1 through SW8, and Caliche, were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in each of the submitted samples.

The excavated area measured approximately five thousand six hundred square feet, and five feet in depth. During remediation activities approximately 1,100 cubic yards of impacted soil were excavated and hauled to an NMOCD approved disposal facility.



A Delineation Sample Map and Excavation Sample Map are provided as Figure 4 and Figure 5, respectively. A Summary of Soil Sample Laboratory Analytical Results is provided as Table 1 and Laboratory Analytical Reports are provided as Attachment VII.

Restoration, Reclamation, and Re-Vegetation:

Based upon laboratory analytical results from confirmation soil samples, the excavation was backfilled with locally sourced, clean, non-impacted caliche. The area has been contoured to achieve erosion control and preserve surface water flow. As the area is located on an active tank battery pad, no seeding will be required

Closure Request:

Sampling activities were conducted in accordance with applicable NMOCD Regulations. Laboratory analytical results from confirmation samples indicate concentrations of BTEX, TPH, and chloride are below the NMOCD Closure Criteria.

Based on laboratory analytical results, BTA Oil Producers, LLC respectfully request closure of the Pardue D 8808 JV-P #2 Tank Battery location, incident NAB1911230564.

Limitations:

Hungry Horse, LLC, has prepared this *Remediation Summary and Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Hungry Horse has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Hungry Horse has not conducted an independent examination of the facts contained in referenced materials and statements. Hungry Horse has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Hungry Horse 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.



Distribution:

BTA Oil Producers, LLC

104 S. Pecos St.
Midland, TX 79701

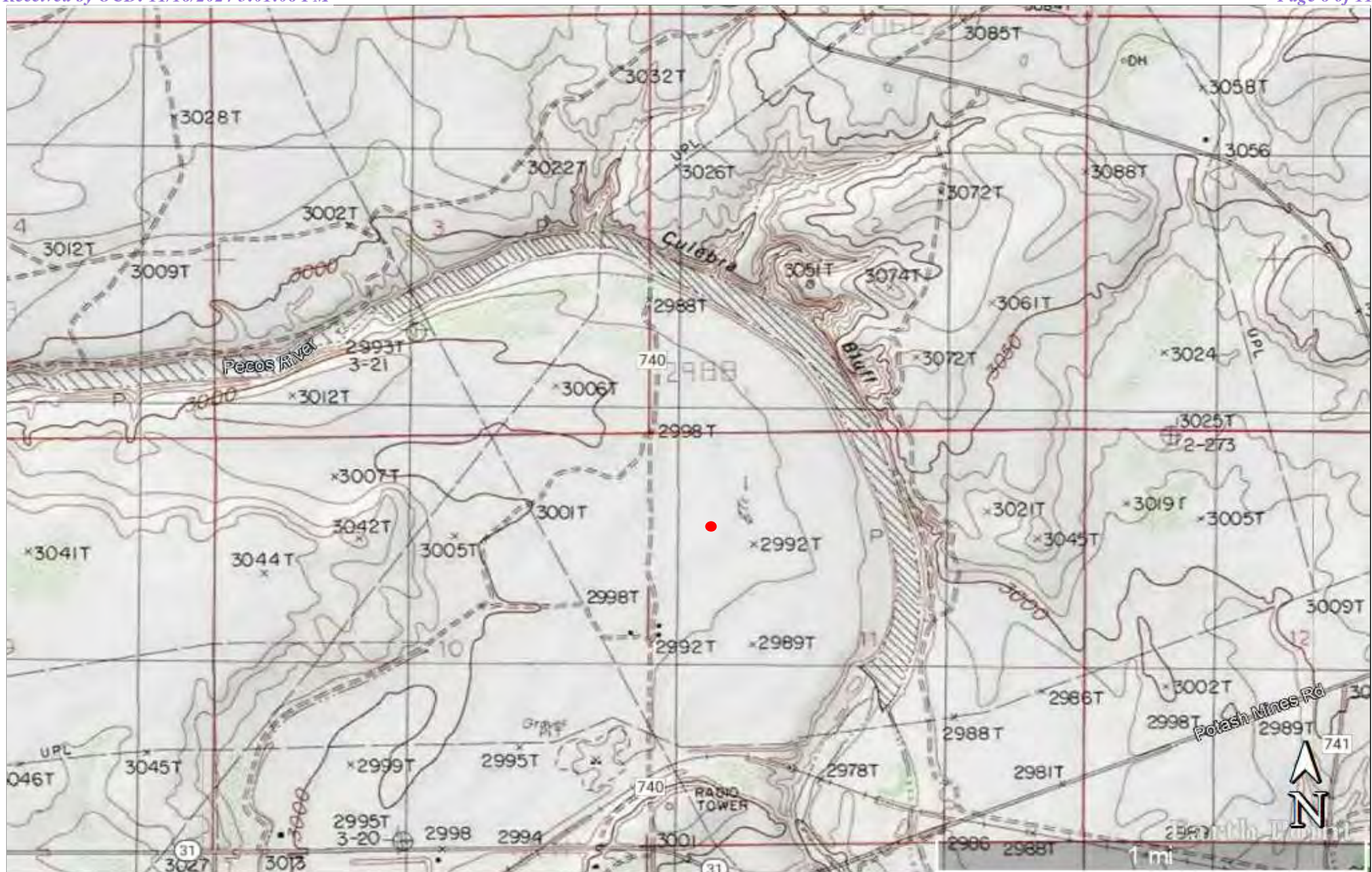
New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 2
811 S. First St.
Artesia, NM 88210

Antonio Onsurez

PO Box 598
Loving, NM 88256

Figures

**Figure 1**

Topographic Map
 BTA Oil Producers, LLC
 Pardue D 8808 JV-P #2 Tank Battery
 GPS: 32.324587, -104.064218
 Eddy County

Legend:

- Pardue D 8808 JV-P #2 Tank Battery Location

Drafted: bw
 Checked: dd
 Date: 9/18/23



**Figure 2**

OSE POD Locations Map
 BTA Oil Producers, LLC
 Pardue D 8808 JV-P #2 Tank Battery
 GPS: 32.324587, -104.064218
 Eddy County

Legend:

- Pardue D 8808 JV-P #2 Tank Battery Location
- Active OSE Water Well
- Pending OSE Water Well
- Plugged OSE Water Well

Drafted: bw
 Checked: dd
 Date: 9/18/23



**Figure 3**

USGS Well Locations Map
BTA Oil Producers, LLC
Pardue D 8808 JV-P #2 Tank Battery
GPS: 32.324587, -104.064218
Eddy County

Legend:

● Pardue D 8808 JV-P #2 Tank Battery Location



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Checked: dd
Date: 9/18/23



**Figure 4**

Delineation Sample Map
BTA Oil Producers, LLC
Pardue D 8808 JV-P #2 Tank Battery
GPS: 32.324587, -104.064218
Eddy County

Legend:

-  Release Area
 Delineation Sample Location

Drafted: bw
Checked: dd
Date: 5/13/24



**Figure 5**

Excavation Sample Map
 BTA Oil Producers, LLC
 Pardue D 8808 JV-P #2 Tank Battery
 GPS: 32.324587, -104.064218
 Eddy County

Legend:

- Excavated Area
- Composite Confirmation Sample 200 Square Foot Area
- FL1 Composite Confirmation Sample Location
- SW1 Composite Confirmation Sidewall Sample Location

Drafted: dd
 Checked: bw
 Date: 8/15/24



Table

TABLE 1
Summary of Soil Sample Laboratory Analytical Results
BTA Oil Producers, LLC
Pardue D 8808 JV-P #2 Tank Battery
NMOCD Ref. #: NAB1911230564

Sample ID	Date	Depth (ft)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
BG2	5/14/24	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	512
SP1N	5/14/24	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
SP2E	5/14/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	240
SP3S	5/14/24	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
SP4W	5/14/24	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
FL1	8/16/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL2	8/16/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL3	8/16/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL4	8/16/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL5	8/16/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL6	8/16/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL7	8/16/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL8	8/16/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL9	8/16/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL10	8/16/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL11	8/16/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL12	8/16/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL13	8/16/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL14	8/16/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL15	8/16/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL16	8/16/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL17	8/16/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL18	8/16/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL19	8/16/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL20	8/16/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL21	8/16/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL22	8/16/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL23	8/16/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL24	8/16/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL25	8/16/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL26	8/16/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL27	8/16/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL28	8/16/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW1	8/16/24	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW2	8/16/24	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW3	8/16/24	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW4	8/16/24	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW5	8/16/24	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW6	8/16/24	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW7	8/16/24	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW8	8/16/24	0-5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
Caliche	8/16/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
NMOCD Closure Criteria				10	50	-	-	N/A	-	100	600

NOTES:

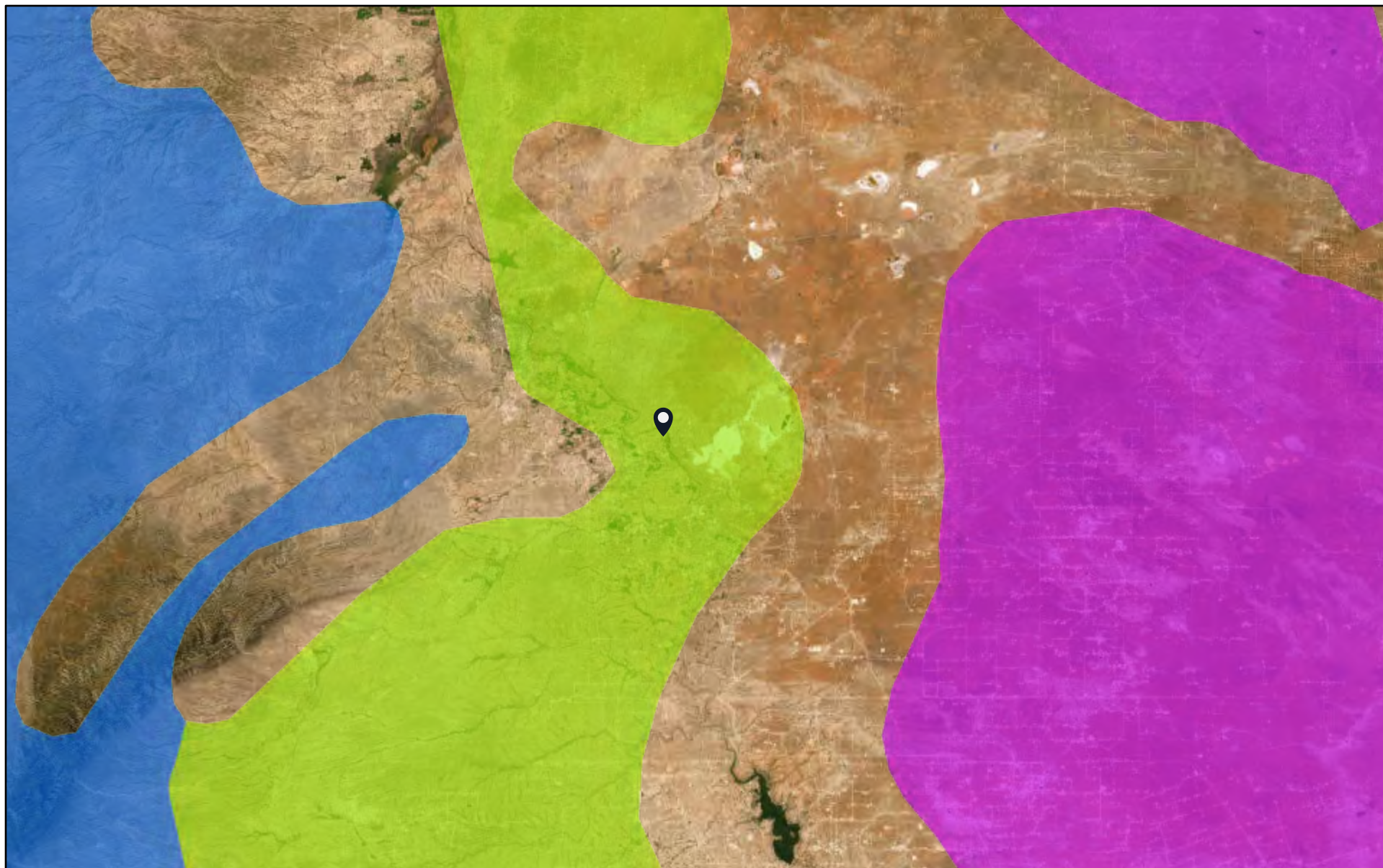
- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

Attachment I

Karst, Wetland, and Soil Maps

Pardue D 8808 JV-P #2 Tank Battery



10/2/2023

Karst Type

- Carbonate
- Erosional
- Gypsum



Volcanic

World Imagery

Low Resolution 15m Imagery

High Resolution 60cm Imagery

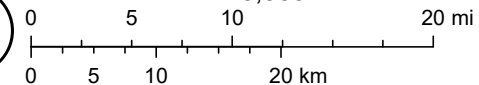
High Resolution 30cm Imagery

Citations

150m Resolution Metadata



1:715,559



U.S. Geological Survey Open-File Report 2004-1352, Caves and Karst in the U.S. National Park Service, AGI Karst Map of the US., Earthstar Geographics



Pardue D 8808 JV-P #2 Tank Battery



August 21, 2023

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond

- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

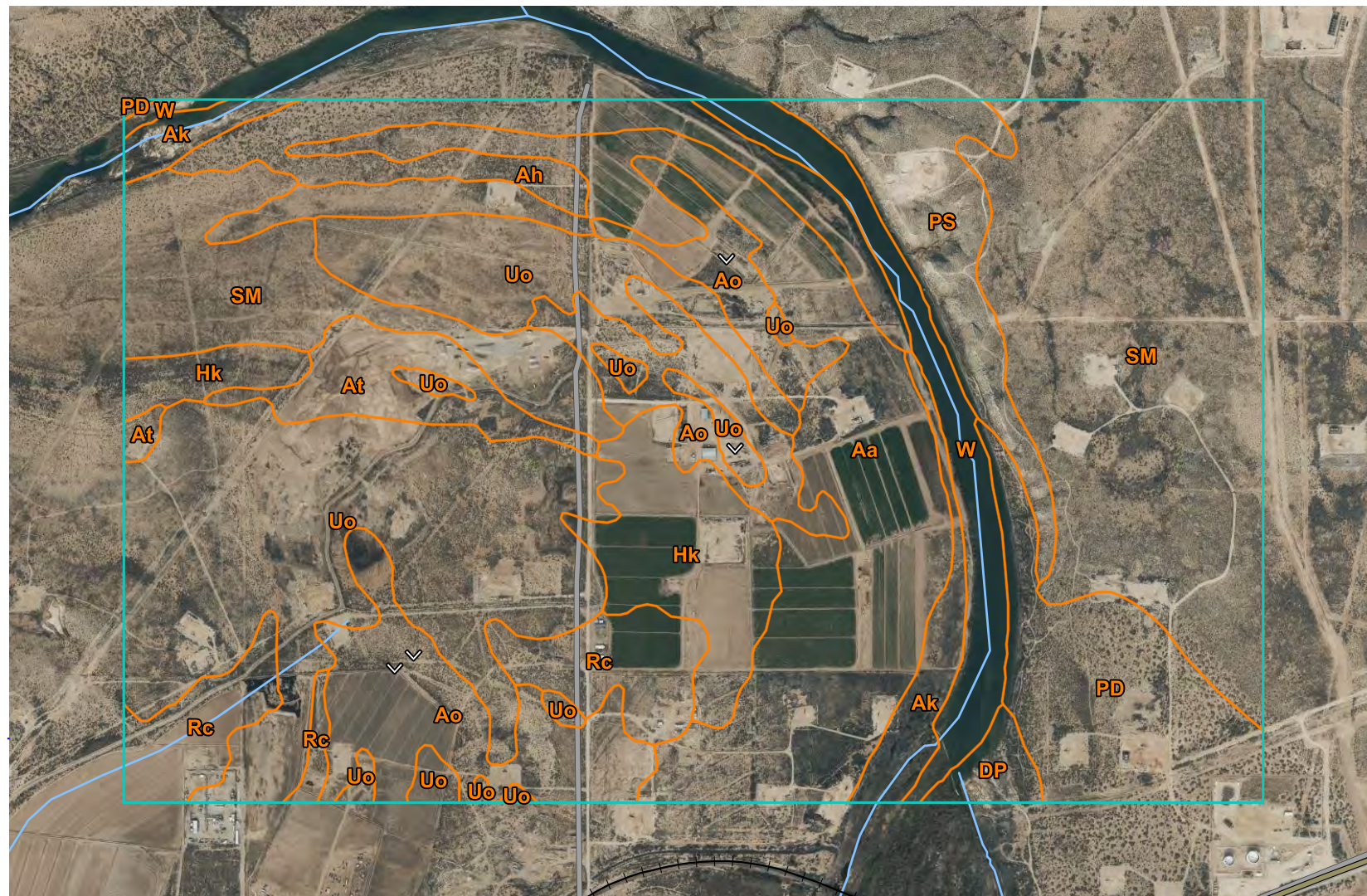
Soil Map—Eddy Area, New Mexico
(Pardue D 8808 JV-P #2 Tank Battery)

104° 4' 52" W

104° 2' 49" W

32° 20' 2" N

32° 20' 2" N



32° 18' 54" N

32° 18' 54" N

104° 4' 52" W

104° 2' 49" W



Map Scale: 1:14,700 if printed on A landscape (11" x 8.5") sheet.

0 200 400 800 1200 Meters

0 500 1000 2000 3000 Feet

Map projection: Web Mercator Corner coordinates: WGS84



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

10/2/2024
Page 1 of 3

Soil Map—Eddy Area, New Mexico
(Pardue D 8808 JV-P #2 Tank Battery)

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 20, Sep 3, 2024

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Nov 12, 2022—Dec 2, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Aa	Anthony sandy loam, 0 to 1 percent slopes	154.3	14.1%
Ah	Anthony sandy loam, 0 to 1 percent slopes	50.6	4.6%
Ak	Arno-Harkey complex, saline, 0 to 1 percent slopes	24.9	2.3%
Ao	Atoka loam, 0 to 1 percent slopes	101.4	9.3%
At	Atoka loam, 1 to 3 percent slopes	28.5	2.6%
DP	Dev-Pima complex, 0 to 3 percent slopes	8.3	0.8%
Hk	Harkey very fine sandy loam, 0 to 1 percent slopes	56.7	5.2%
PD	Pajarito-Dune land complex, 0 to 3 percent slopes	64.0	5.9%
PS	Potter-Simona complex, 5 to 25 percent slopes	47.1	4.3%
Rc	Reagan loam, 0 to 1 percent slopes	47.5	4.3%
SM	Simona-Bippus complex, 0 to 5 percent slopes	246.0	22.5%
Uo	Upton gravelly loam, 0 to 9 percent slopes	223.7	20.5%
W	Water	40.3	3.7%
Totals for Area of Interest		1,093.1	100.0%

Eddy Area, New Mexico

Ao—Atoka loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 1w40

Elevation: 1,100 to 4,300 feet

Mean annual precipitation: 7 to 15 inches

Mean annual air temperature: 60 to 70 degrees F

Frost-free period: 200 to 240 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Atoka and similar soils: 97 percent

Minor components: 3 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Atoka

Setting

Landform: Plains

Landform position (three-dimensional): Riser

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Alluvium

Typical profile

H1 - 0 to 8 inches: loam

H2 - 8 to 33 inches: loam

H3 - 33 to 37 inches: indurated

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: 20 to 40 inches to petrocalcic

Drainage class: Well drained

Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Moderate (about 6.4 inches)

Interpretive groups

Land capability classification (irrigated): 3s

Land capability classification (nonirrigated): 7s

Map Unit Description: Atoka loam, 0 to 1 percent slopes---Eddy Area, New Mexico

Pardue D 8808 JV-P #2 Tank Battery

Hydrologic Soil Group: C
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Minor Components

Atoka

Percent of map unit: 1 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Upton

Percent of map unit: 1 percent
Ecological site: R070BC025NM - Shallow
Hydric soil rating: No

Reagan

Percent of map unit: 1 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 20, Sep 3, 2024



Attachment II

NMOCD Correspondence

Daniel Dominguez

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Monday, August 14, 2023 9:39 AM
To: Daniel Dominguez
Cc: Bratcher, Michael, EMNRD; Buchanan, Michael, EMNRD
Subject: RE: [EXTERNAL] Liner Inspection

Good morning Daniel,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520 | Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Daniel Dominguez <ddominguez@hungry-horse.com>
Sent: Monday, August 14, 2023 6:32 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Liner Inspection

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

We will be conducting a liner inspection at the Pardue D 8808 JVP #2 Tank Battery (nAPP1911230564) on Wednesday August 16, 2023 at 1 pm.

This is our 2 day notice.

Daniel Dominguez
Environmental Manager
Hungry Horse, LLC
(mobile) 575-408-3134
ddominguez@hungry-horse.com

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

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

QUESTIONS

Action 373746

QUESTIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 373746
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1911230564
Incident Name	NAB1911230564 PARDUE D 8808 JV-P #002 @ 30-015-26406
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-26406] PARDUE D 8808 JV-P #002

Location of Release Source	
Site Name	PARDUE D 8808 JV-P #002
Date Release Discovered	04/02/2019
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	5,600
What is the estimated number of samples that will be gathered	36
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/16/2024
Time sampling will commence	10:00 AM
Please provide any information necessary for observers to contact samplers	Jerry Heidelberg 575-390-3639
Please provide any information necessary for navigation to sampling site	32.324585, -104.064223

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Santa Fe, NM 87505

CONDITIONS

Action 373746

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 373746
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
btahungry	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/14/2024

Attachment III

Depth to Groundwater



New Mexico Office of the State Engineer

Wells With Well Log Information

(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)

(meters)

(in feet)

POD Number	Code	Sub basin	County	Source	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Distance	Start Date	Finish Date	Log File Date	Borehole Depth	Depth Water First Encountered	Driller	License Number	
C 00512		CUB	ED	Shallow	SE	NW	NW	11	23S	28E	588188.1	3576775.2		112	1975-05-04	1975-05-20	1976-05-11	175	15	BRININSTOOL, M.D.	24
C 00512 EXPL	O	CUB	ED	Shallow			NW	11	23S	28E	588272.0	3576703.0 *		216	1971-07-12	1971-07-17	1971-10-15	200	16	BRININSTOOL, M.D.	24
C 04216 POD2		CUB	ED	Shallow	NW	SE	NW	11	23S	28E	588464.6	3576555.9		456	2018-04-04	2018-04-04	2018-04-18	20	10	ATKINS, JACKIE D.	1249
C 04216 POD3		CUB	ED	Shallow	NW	SE	NW	11	23S	28E	588501.2	3576556.2		487	2018-04-04	2018-04-04	2018-04-18	23	13	ATKINS, JACKIE D.	1249
C 04216 POD1		CUB	ED	Shallow	NE	SE	NW	11	23S	28E	588488.3	3576534.5		487	2018-04-04	2018-04-04	2018-04-18	20	10	ATKINS, JACKIE D.	1249
C 04216 POD4		CUB	ED	Shallow	NE	SE	NW	11	23S	28E	588499.0	3576513.1		508	2018-04-04	2018-04-04	2018-04-18	20	10	ATKINS, JACKIE D.	1249

Record Count: 6

UTM Filters (in meters):


Easting: 588078.5
Northing: 3576799.27
Radius: 805

* 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.

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 Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	C 00512	SE	NW	NW	11	23S	28E	588188.1	3576775.2	

* UTM location was derived from PLSS - see Help

Driller License:	24	Driller Company:	BRININSTOOL, M.D.		
Driller Name:	BRININSTOOL, M.D.				
Drill Start Date:	1975-05-04	Drill Finish Date:	1975-05-20	Plug Date:	
Log File Date:	1976-05-11	PCW Rcv Date:	1976-10-22	Source:	Shallow
Pump Type:	TURBIN	Pipe Discharge Size:	4"	Estimated Yield:	300
Casing Size:	16.00	Depth Well:	175	Depth Water:	15

Water Bearing Stratifications:

Top	Bottom	Description
15	28	Shallow Alluvium/Basin Fill

Casing Perforations:

Top	Bottom
15	90

Meter Information

Meter Number:	5520	Meter Make:	MCCROMETER
Meter Serial Number:	02-4-1040	Meter Multiplier:	100.0000
Number of Dials:	6	Meter Type:	Diversion
Unit of Measure:	Gallons	Reading Frequency:	Monthly (No Reading Expected)

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
2002-03-27	2002	0.000	A	tw		0.000	

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
2002-05-07	2002	391.000	A	tw		0.120	
2002-06-12	2002	1914.000	A	tw		0.467	
2002-09-03	2002	3920.000	A	tw		0.616	
2003-01-13	2002	4253.000	A	tw		0.102	
2003-04-02	2003	4451.000	A	tw		0.061	
2003-06-04	2003	4729.000	A	tw		0.085	
2003-08-02	2003	4932.000	A	tw		0.062	
2003-10-27	2003	4932.000	A	tw		0.000	
2004-01-07	2003	4932.000	A	tw		0.000	
2004-04-27	2004	4932.000	A	tw		0.000	
2004-07-15	2004	5085.000	A	tw		0.047	
2004-10-20	2004	649.000	R	tw	Meter Rollover	305.527	
2005-01-03	2004	649.000	A	tw		0.000	
2005-03-01	2005	649.000	A	tw		0.000	
2005-07-06	2005	675.000	A	tw		0.008	
2005-10-19	2005	675.000	A	tw		0.000	
2006-01-05	2005	675.000	A	tw		0.000	
2006-04-06	2006	676.000	A	tw		0.000	
2006-07-06	2006	676.000	A	tw		0.000	
2007-01-09	2007	676.000	A	tw		0.000	
2008-01-03	2007	55046.000	A	tw		16.686	
2008-04-24	2008	85512.000	A	tw		9.350	
2008-07-17	2008	98411.000	A	tw		3.959	
2008-10-02	2008	103913.000	A	tw		1.689	
2009-01-15	2008	104404.000	A	tw		0.151	
2009-04-22	2009	123664.000	A	tw		5.911	
2009-08-04	2009	142056.000	A	tw		5.644	
2010-01-06	2009	160768.000	A	tw		5.743	
2010-06-02	2010	160899.000	A	tw		0.040	

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
2011-01-12	2010	160899.000	A	tw		0.000	
2012-01-23	2011	170841.000	A	tw		3.051	
2012-03-12	2012	170841.000	A	tw		0.000	
2012-07-24	2012	171317.000	A	tw		0.146	
2013-02-13	2012	171504.000	A	tw		0.057	
2013-11-05	2013	172273.000	A	tw		0.236	
2014-07-22	2014	172369.000	A	tw		0.029	
2016-02-24	2015	172706.000	A	tw		0.103	
2016-08-11	2016	178853.000	A	tw		1.886	
2016-12-27	2016	172959.000	C	tw	Meter Reading Correction	-1.809	
2017-07-18	2017	173150.000	A	tw		0.059	
2018-01-08	2017	173271.000	A	tw		0.037	

YTD Meter Amounts:

Year	Amount
2002	1.305
2003	0.208
2004	305.574
2005	0.008
2006	0.000
2007	16.686
2008	15.149
2009	17.298
2010	0.040
2011	3.051
2012	0.203
2013	0.236
2014	0.029

Year	Amount
2015	0.103
2016	0.077
2017	0.096

Meter Information

Meter Number:	15518	Meter Make:	MASTER
Meter Serial Number:	2680127	Meter Multiplier:	100.0000
Number of Dials:	6	Meter Type:	Diversion
Unit of Measure:	Gallons	Reading Frequency:	Monthly (No Reading Expected)

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
2012-02-02	2012	17.000	A	RPT		0.000	
2012-04-03	2012	2594.000	A	RPT		0.791	

YTD Meter Amounts:

Year	Amount
2012	0.791

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10/2/24 2:55 PM MST

Point of Diversion Summary

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 Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	C 00512 EXPL			NW	11	23S	28E	588272.0	3576703.0 *	

* UTM location was derived from PLSS - see [Help](#)

Driller License:	24	Driller Company:	BRININSTOOL, M.D.
Driller Name:	BRININSTOOL, M.D.		
Drill Start Date:	1971-07-12	Drill Finish Date:	1971-07-17
Log File Date:	1971-10-15	PCW Rcv Date:	
		Source:	Shallow
Pump Type:		Pipe Discharge Size:	
		Estimated Yield:	
Casing Size:		Depth Well:	200
		Depth Water:	16

Water Bearing Stratifications:


Top	Bottom	Description
16	35	Shallow Alluvium/Basin Fill

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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 Nbr	Q64	Q16	Q4	Sec	Tw	Rng	X	Y	Map
NA	C 04216 POD1	NE	SE	NW	11	23S	28E	588488.3	3576534.5	

* UTM location was derived from PLSS - see Help

Driller License:	1249	Driller Company:	ATKINS ENGINEERING ASSOC. INC.		
Driller Name:	ATKINS, JACKIE D.				
Drill Start Date:	2018-04-04	Drill Finish Date:	2018-04-04	Plug Date:	
Log File Date:	2018-04-18	PCW Rcv Date:		Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	
Casing Size:	2.00	Depth Well:	20	Depth Water:	10

Water Bearing Stratifications:

Top	Bottom	Description
9	11	Sandstone/Gravel/Conglomerate
11	20	Sandstone/Gravel/Conglomerate

Casing Perforations:


Top	Bottom
5	20

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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 Nbr	Q64	Q16	Q4	Sec	Tw	Rng	X	Y	Map
NA	C 04216 POD2	NW	SE	NW	11	23S	28E	588464.6	3576555.9	

* UTM location was derived from PLSS - see Help

Driller License:	1249	Driller Company:	ATKINS ENGINEERING ASSOC. INC.		
Driller Name:	ATKINS, JACKIE D.				
Drill Start Date:	2018-04-04	Drill Finish Date:	2018-04-04	Plug Date:	
Log File Date:	2018-04-18	PCW Rcv Date:		Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	
Casing Size:	2.00	Depth Well:	20	Depth Water:	10

Water Bearing Stratifications:

Top	Bottom	Description
5	20	Sandstone/Gravel/Conglomerate

Casing Perforations:


Top	Bottom
5	20

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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 Nbr	Q64	Q16	Q4	Sec	TwS	Rng	X	Y	Map
NA	C 04216 POD3	NW	SE	NW	11	23S	28E	588501.2	3576556.2	

* UTM location was derived from PLSS - see Help

Driller License:	1249	Driller Company:	ATKINS ENGINEERING ASSOC. INC.		
Driller Name:	ATKINS, JACKIE D.				
Drill Start Date:	2018-04-04	Drill Finish Date:	2018-04-04	Plug Date:	
Log File Date:	2018-04-18	PCW Rcv Date:		Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	
Casing Size:	2.00	Depth Well:	23	Depth Water:	13

Water Bearing Stratifications:


Top	Bottom	Description
10	23	Sandstone/Gravel/Conglomerate

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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 Nbr	Q64	Q16	Q4	Sec	Tw	Rng	X	Y	Map
NA	C 04216 POD4	NE	SE	NW	11	23S	28E	588499.0	3576513.1	

* UTM location was derived from PLSS - see Help

Driller License:	1249	Driller Company:	ATKINS ENGINEERING ASSOC. INC.		
Driller Name:	ATKINS, JACKIE D.				
Drill Start Date:	2018-04-04	Drill Finish Date:	2018-04-04	Plug Date:	
Log File Date:	2018-04-18	PCW Rcv Date:		Source:	Shallow
Pump Type:		Pipe Discharge Size:		Estimated Yield:	
Casing Size:	2.00	Depth Well:	20	Depth Water:	10

Water Bearing Stratifications:

Top	Bottom	Description
9	20	Sandstone/Gravel/Conglomerate

Casing Perforations:

Top	Bottom
5	20

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.

Attachment IV Site Photographs

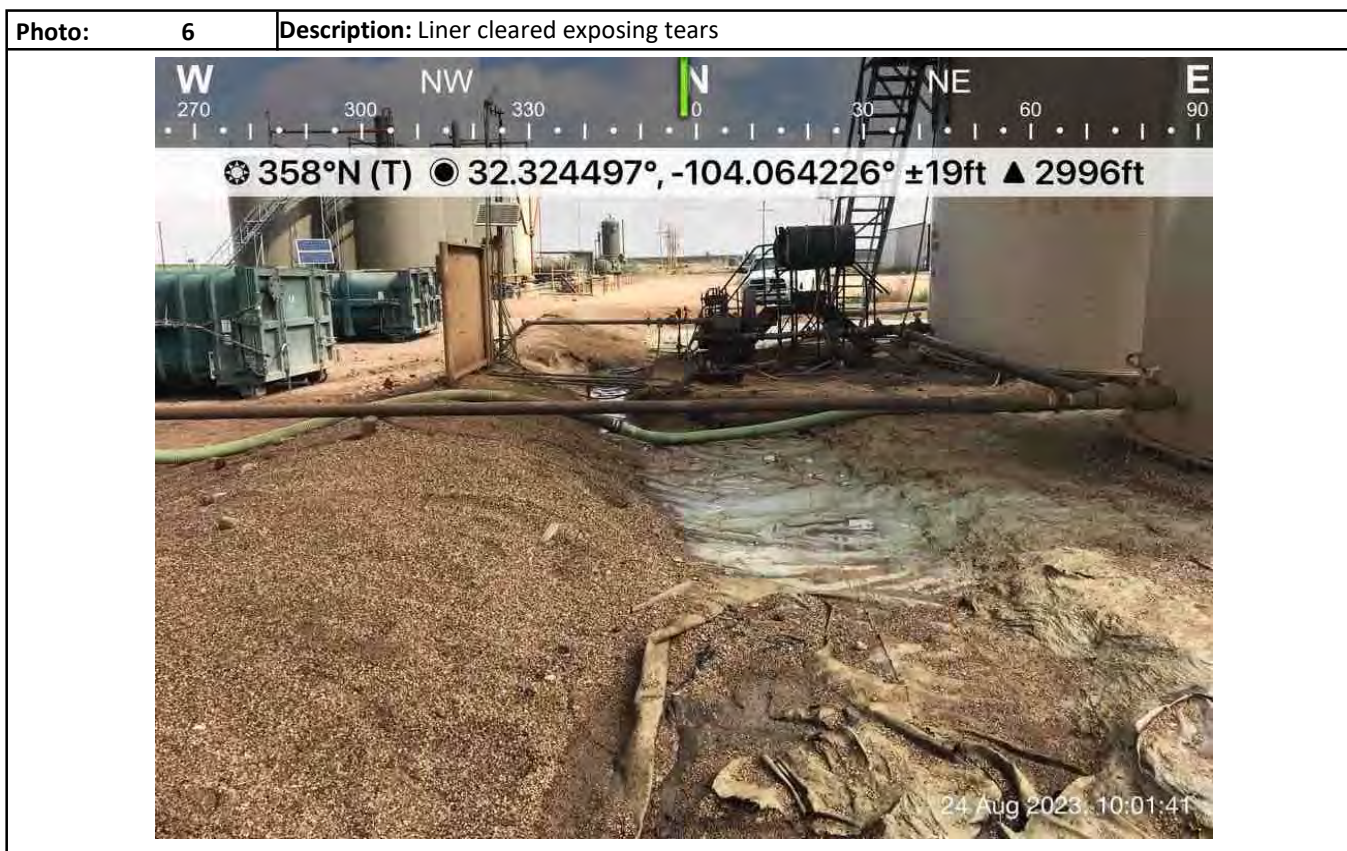
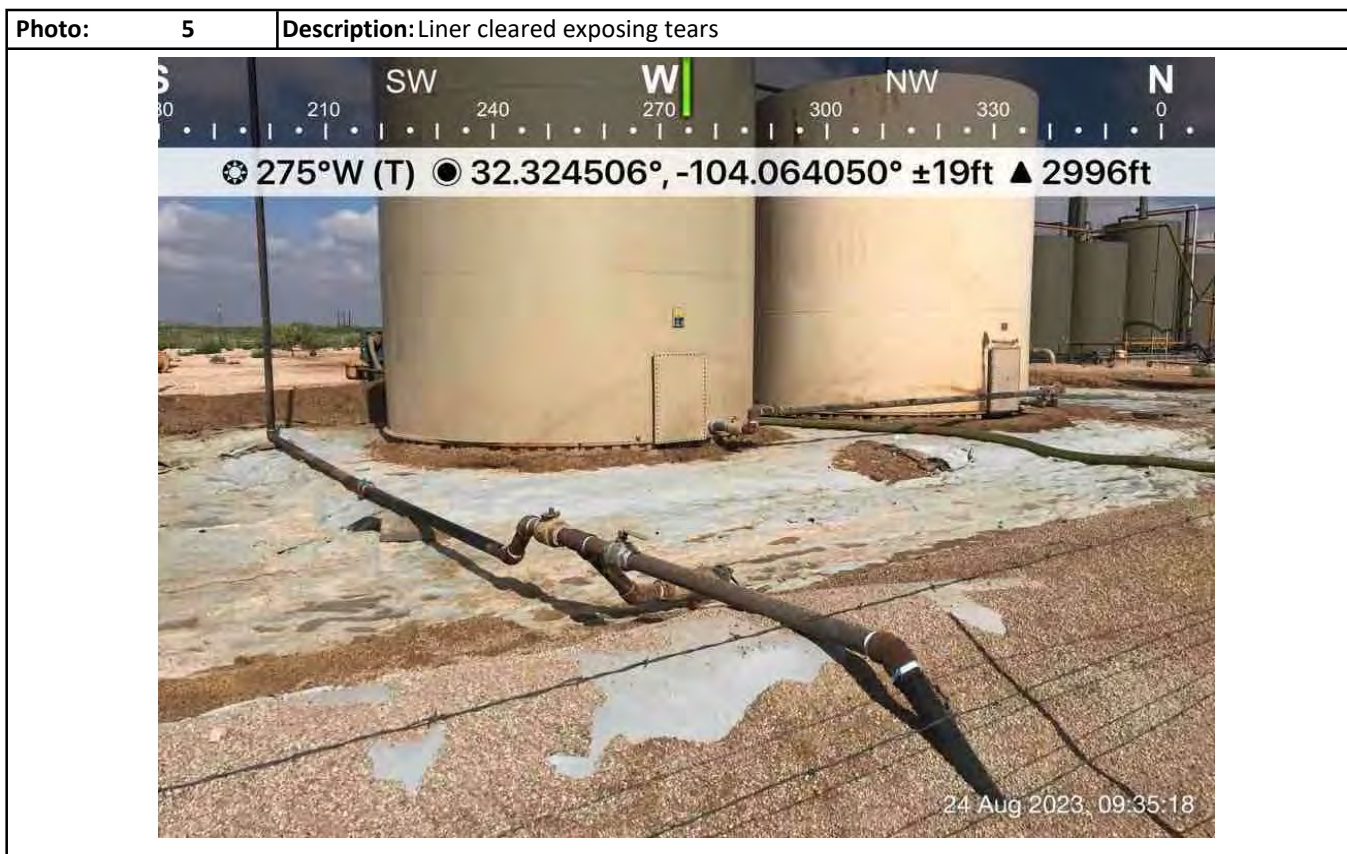
Photographs



Photographs



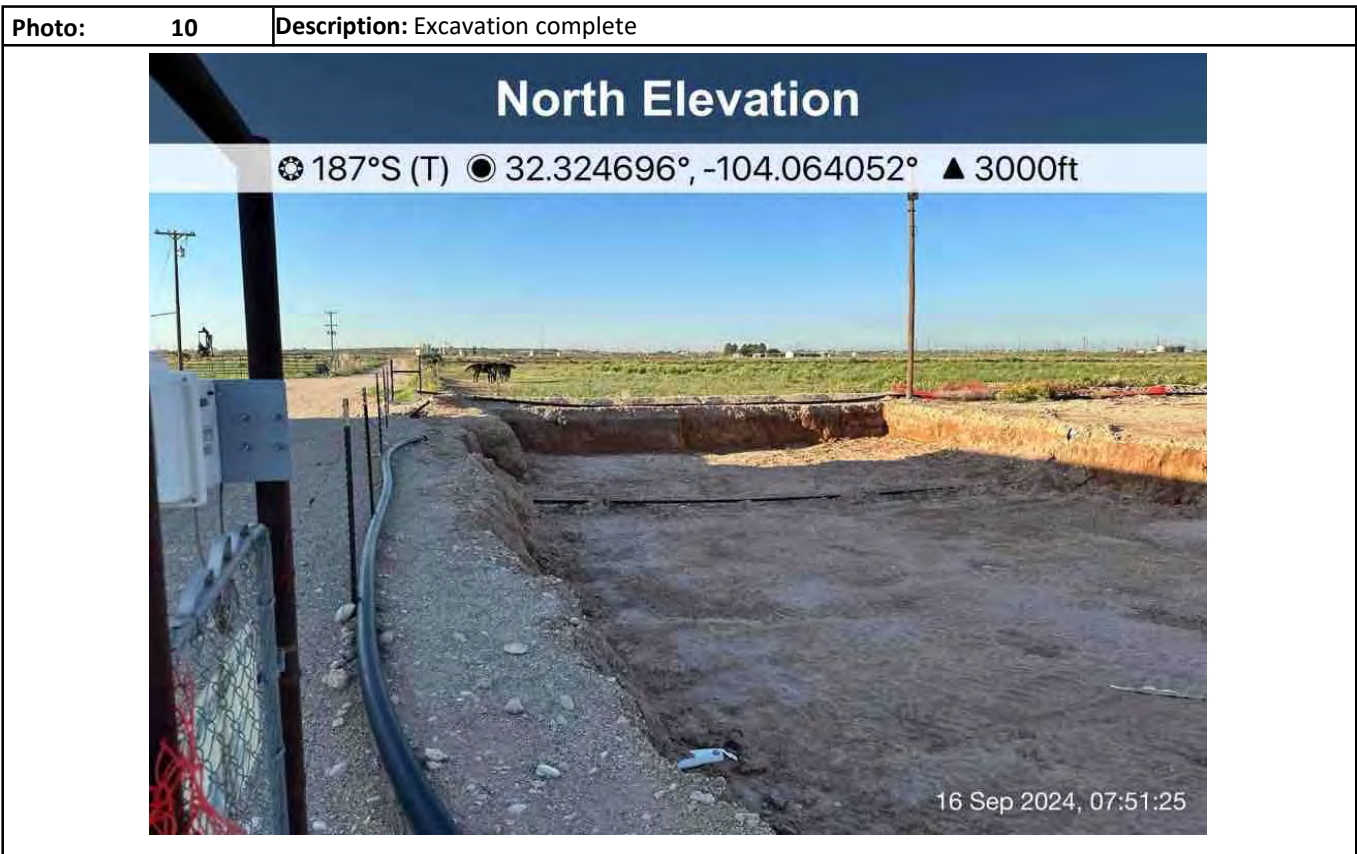
Photographs



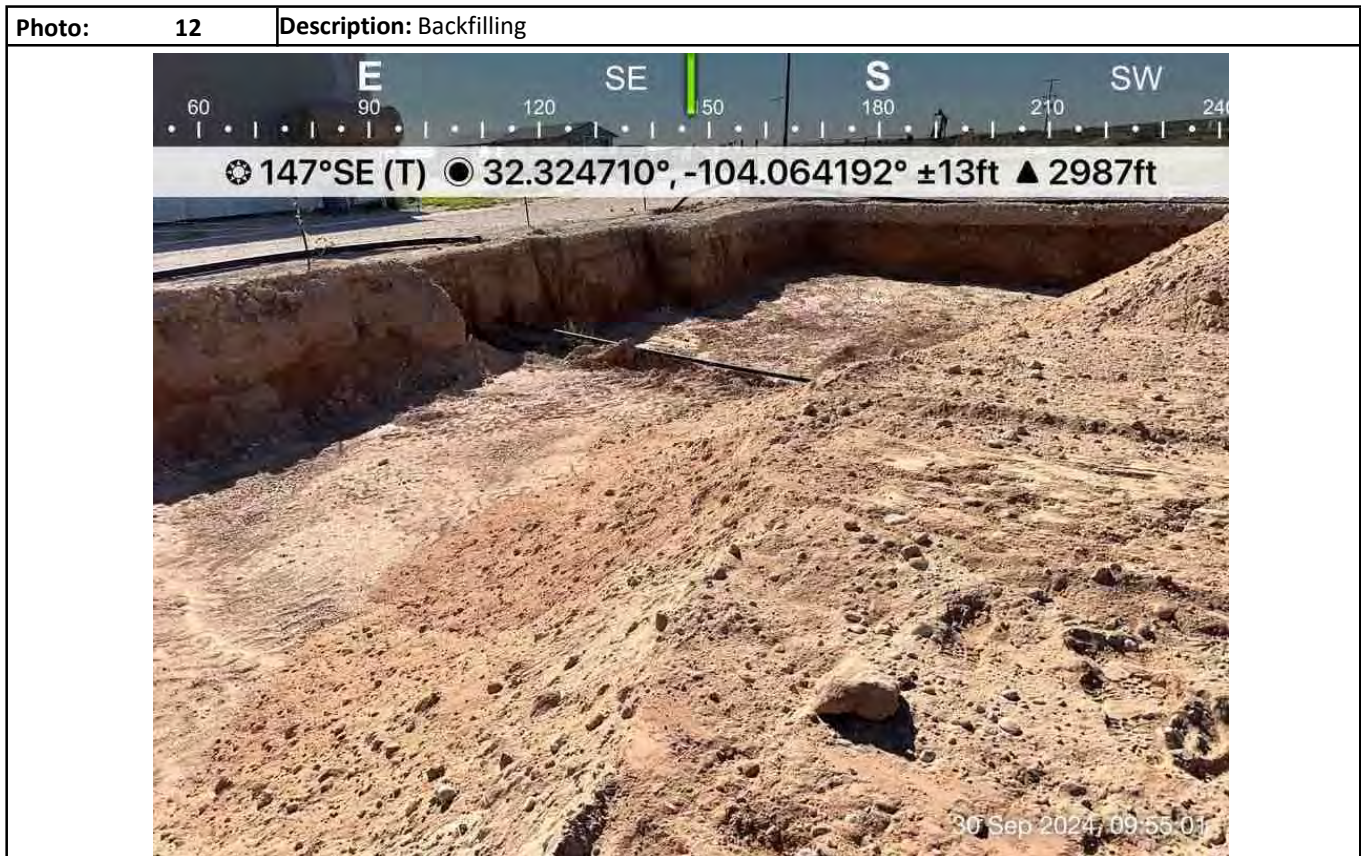
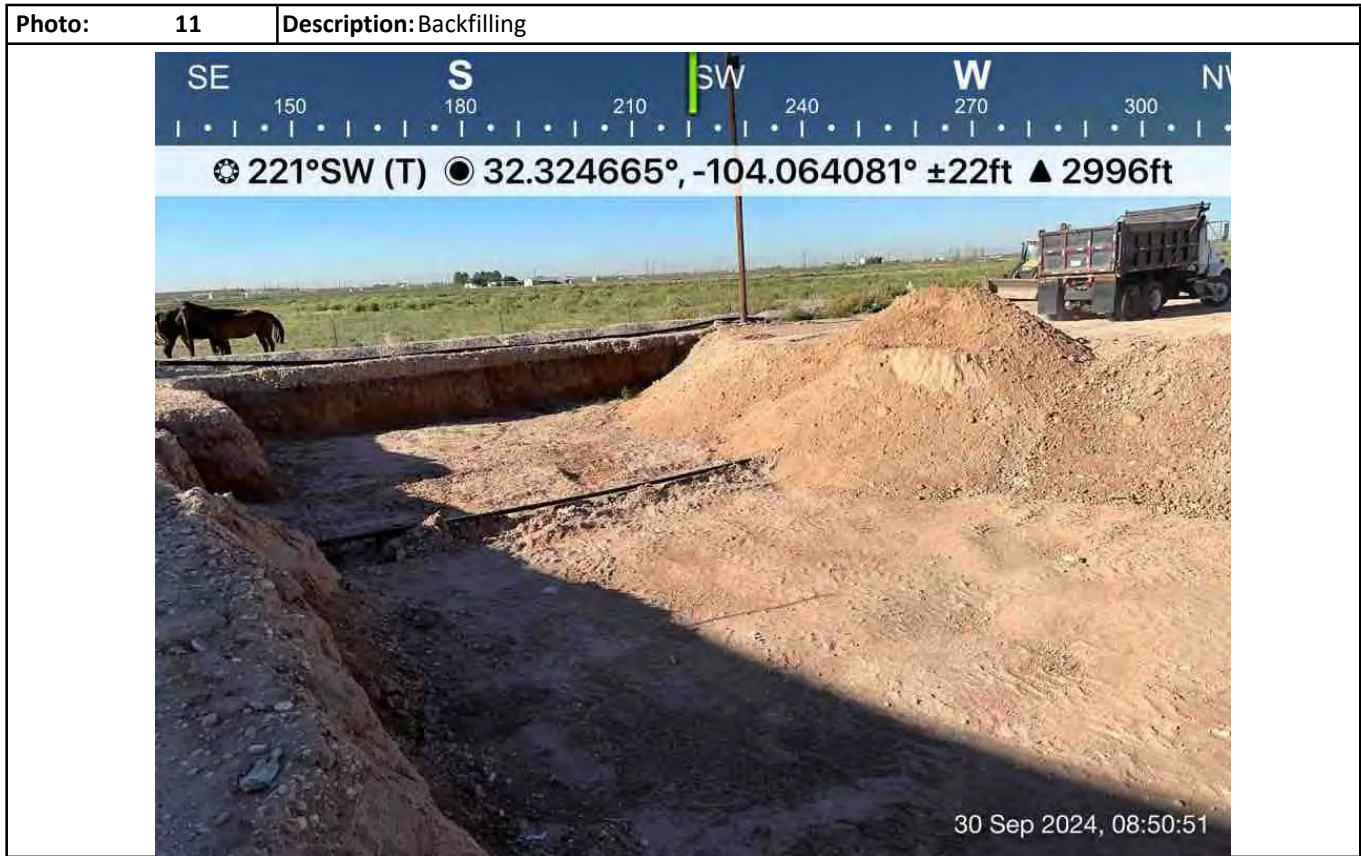
Photographs



Photographs



Photographs



Photographs



Photographs



Photographs



Attachment V

Field Data

Sample Log

Date: 5-14-24

Latitude: 32.324587

Longitude: -104.064218

Sampler: Bradley Wells

[illegible]

Test Trench = TT1 @ ##

Resamples= SP1b @ 5' or SW #1b

Stockpile = Stockpile #1

Attachment VI

Liner Inspection Report

Liner Inspection Form



Client BTA Oil Producers, LLC
 Site Name Pardue D 8808 JV-P #2 Tank Battery
 Lat/Long 32.324587, -104.064218
 Release Date 02-Apr-19
 Incident Number NAB1911230564
 NMOCD Notified 25-Aug-23
 Inspection Date 8/29/23

Observations	Yes	No	Comments
Is the liner present?	X		
Is the liner torn?	X		Multiple Rips from in liner
Are there visible holes in the liner?	X		Multiple little holes in liner
Is the liner retaining any liquids?		X	
Does it appear the liner had the ability to contain the leak?		X	

Type of liner:

☒ Earthen with liner

☐ Earthen no liner

☐ Metal with Poly Lining

☐ Metal with Spray Epoxy Lining

Other: _____

Other concerns or observations: No other concerns. Liner had rips & tears in it. Will need to delineate.

Inspector Name Bradley Wells

Inspector Signature B. Wells

Attachment VII

Laboratory Analytical Reports



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

May 20, 2024

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: PARDUE D 8808 JV - P # 2 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/14/24 15:02.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	05/14/2024	Sampling Date:	05/14/2024
Reported:	05/20/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: BG2 - 4' (H242642-01)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/16/2024	ND	1.89	94.5	2.00	0.323		
Toluene*	<0.050	0.050	05/16/2024	ND	1.90	94.8	2.00	0.915		
Ethylbenzene*	<0.050	0.050	05/16/2024	ND	1.86	93.2	2.00	1.21		
Total Xylenes*	<0.150	0.150	05/16/2024	ND	5.85	97.6	6.00	1.18		
Total BTX	<0.300	0.300	05/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	05/16/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2024	ND	197	98.7	200	1.66	
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	179	89.7	200	3.20	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 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:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	05/14/2024	Sampling Date:	05/14/2024
Reported:	05/20/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: SP1N - 6' (H242642-02)

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	05/16/2024	ND	1.89	94.5	2.00	0.323		
Toluene*	<0.050	0.050	05/16/2024	ND	1.90	94.8	2.00	0.915		
Ethylbenzene*	<0.050	0.050	05/16/2024	ND	1.86	93.2	2.00	1.21		
Total Xylenes*	<0.150	0.150	05/16/2024	ND	5.85	97.6	6.00	1.18		
Total BTEx	<0.300	0.300	05/16/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	05/16/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2024	ND	197	98.7	200	1.66	
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	179	89.7	200	3.20	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	05/14/2024	Sampling Date:	05/14/2024
Reported:	05/20/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: SP2E - 5' (H242642-03)

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	05/16/2024	ND	1.89	94.5	2.00	0.323		
Toluene*	<0.050	0.050	05/16/2024	ND	1.90	94.8	2.00	0.915		
Ethylbenzene*	<0.050	0.050	05/16/2024	ND	1.86	93.2	2.00	1.21		
Total Xylenes*	<0.150	0.150	05/16/2024	ND	5.85	97.6	6.00	1.18		
Total BTEx	<0.300	0.300	05/16/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	05/16/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2024	ND	197	98.7	200	1.66	
DRO >C10-C28*	<10.0	10.0	05/15/2024	ND	179	89.7	200	3.20	
EXT DRO >C28-C36	<10.0	10.0	05/15/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 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:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	05/14/2024	Sampling Date:	05/14/2024
Reported:	05/20/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: SP3S - 8' (H242642-04)

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	05/16/2024	ND	1.89	94.5	2.00	0.323		
Toluene*	<0.050	0.050	05/16/2024	ND	1.90	94.8	2.00	0.915		
Ethylbenzene*	<0.050	0.050	05/16/2024	ND	1.86	93.2	2.00	1.21		
Total Xylenes*	<0.150	0.150	05/16/2024	ND	5.85	97.6	6.00	1.18		
Total BTEx	<0.300	0.300	05/16/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	05/16/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2024	ND	197	98.7	200	1.66	
DRO >C10-C28*	<10.0	10.0	05/16/2024	ND	179	89.7	200	3.20	
EXT DRO >C28-C36	<10.0	10.0	05/16/2024	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	05/14/2024	Sampling Date:	05/14/2024
Reported:	05/20/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: SP4W - 4' (H242642-05)

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	05/16/2024	ND	1.89	94.5	2.00	0.323		
Toluene*	<0.050	0.050	05/16/2024	ND	1.90	94.8	2.00	0.915		
Ethylbenzene*	<0.050	0.050	05/16/2024	ND	1.86	93.2	2.00	1.21		
Total Xylenes*	<0.150	0.150	05/16/2024	ND	5.85	97.6	6.00	1.18		
Total BTEx	<0.300	0.300	05/16/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	05/16/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/16/2024	ND	197	98.7	200	1.66	
DRO >C10-C28*	<10.0	10.0	05/16/2024	ND	179	89.7	200	3.20	
EXT DRO >C28-C36	<10.0	10.0	05/16/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



Page 8 of 8

cannot accept verbal changes. Please fax written changes to 513-324-6000.



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

August 21, 2024

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: PARDUE D 8808 JV - P # 2 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/16/24 15:25.

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

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	08/16/2024	Sampling Date:	08/16/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: CALICHE (H245004-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2024	ND	2.10	105	2.00	1.32	
Toluene*	<0.050	0.050	08/20/2024	ND	2.12	106	2.00	0.308	
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.12	106	2.00	0.445	
Total Xylenes*	<0.150	0.150	08/20/2024	ND	6.58	110	6.00	0.422	
Total BTX	<0.300	0.300	08/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/21/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	222	111	200	5.30	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	224	112	200	6.36	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 68.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

August 21, 2024

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: PARDUE D 8808 JV - P # 2 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/16/24 15:43.

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

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	08/16/2024	Sampling Date:	08/16/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: FL 1 - 5' (H245008-01)

BTX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2024	ND	2.19	110	2.00	13.0	
Toluene*	<0.050	0.050	08/20/2024	ND	2.27	114	2.00	15.1	
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.37	119	2.00	17.3	
Total Xylenes*	<0.150	0.150	08/20/2024	ND	7.04	117	6.00	16.3	
Total BTX	<0.300	0.300	08/20/2024	ND					

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

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/20/2024	ND	400	100	400	3.92	

TPH 8015M			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	223	111	200	2.24	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	215	108	200	5.97	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 82.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 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:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	08/16/2024	Sampling Date:	08/16/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: FL 2 - 5' (H245008-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/20/2024	ND	2.19	110	2.00	13.0		
Toluene*	<0.050	0.050	08/20/2024	ND	2.27	114	2.00	15.1		
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.37	119	2.00	17.3		
Total Xylenes*	<0.150	0.150	08/20/2024	ND	7.04	117	6.00	16.3		
Total BTEx	<0.300	0.300	08/20/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/20/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	223	111	200	2.24	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	215	108	200	5.97	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 83.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 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:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	08/16/2024	Sampling Date:	08/16/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: FL 3 - 5' (H245008-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/20/2024	ND	2.19	110	2.00	13.0		
Toluene*	<0.050	0.050	08/20/2024	ND	2.27	114	2.00	15.1		
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.37	119	2.00	17.3		
Total Xylenes*	<0.150	0.150	08/20/2024	ND	7.04	117	6.00	16.3		
Total BTEx	<0.300	0.300	08/20/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/20/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	223	111	200	2.24	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	215	108	200	5.97	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 78.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	08/16/2024	Sampling Date:	08/16/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: FL 4 - 5' (H245008-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/20/2024	ND	2.19	110	2.00	13.0		
Toluene*	<0.050	0.050	08/20/2024	ND	2.27	114	2.00	15.1		
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.37	119	2.00	17.3		
Total Xylenes*	<0.150	0.150	08/20/2024	ND	7.04	117	6.00	16.3		
Total BTEx	<0.300	0.300	08/20/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/20/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	223	111	200	2.24	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	215	108	200	5.97	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 83.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	08/16/2024	Sampling Date:	08/16/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: FL 5 - 5' (H245008-05)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2024	ND	2.19	110	2.00	13.0	
Toluene*	<0.050	0.050	08/20/2024	ND	2.27	114	2.00	15.1	
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.37	119	2.00	17.3	
Total Xylenes*	<0.150	0.150	08/20/2024	ND	7.04	117	6.00	16.3	
Total BTX	<0.300	0.300	08/20/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/20/2024	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	223	111	200	2.24	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	215	108	200	5.97	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 79.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	08/16/2024	Sampling Date:	08/16/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: FL 6 - 5' (H245008-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/20/2024	ND	2.19	110	2.00	13.0		
Toluene*	<0.050	0.050	08/20/2024	ND	2.27	114	2.00	15.1		
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.37	119	2.00	17.3		
Total Xylenes*	<0.150	0.150	08/20/2024	ND	7.04	117	6.00	16.3		
Total BTEx	<0.300	0.300	08/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/20/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	223	111	200	2.24	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	215	108	200	5.97	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	08/16/2024	Sampling Date:	08/16/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: FL 7 - 5' (H245008-07)

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	08/20/2024	ND	2.19	110	2.00	13.0		
Toluene*	<0.050	0.050	08/20/2024	ND	2.27	114	2.00	15.1		
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.37	119	2.00	17.3		
Total Xylenes*	<0.150	0.150	08/20/2024	ND	7.04	117	6.00	16.3		
Total BTEx	<0.300	0.300	08/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/20/2024	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	223	111	200	2.24	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	215	108	200	5.97	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	08/16/2024	Sampling Date:	08/16/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: FL 8 - 5' (H245008-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/20/2024	ND	2.19	110	2.00	13.0		
Toluene*	<0.050	0.050	08/20/2024	ND	2.27	114	2.00	15.1		
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.37	119	2.00	17.3		
Total Xylenes*	<0.150	0.150	08/20/2024	ND	7.04	117	6.00	16.3		
Total BTEx	<0.300	0.300	08/20/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	223	111	200	2.24	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	215	108	200	5.97	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 81.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	08/16/2024	Sampling Date:	08/16/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: FL 9 - 5' (H245008-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/20/2024	ND	2.19	110	2.00	13.0		
Toluene*	<0.050	0.050	08/20/2024	ND	2.27	114	2.00	15.1		
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.37	119	2.00	17.3		
Total Xylenes*	<0.150	0.150	08/20/2024	ND	7.04	117	6.00	16.3		
Total BTEx	<0.300	0.300	08/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	223	111	200	2.24	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	215	108	200	5.97	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 80.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
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 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	08/16/2024	Sampling Date:	08/16/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: FL 10 - 5' (H245008-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/20/2024	ND	2.19	110	2.00	13.0		
Toluene*	<0.050	0.050	08/20/2024	ND	2.27	114	2.00	15.1		
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.37	119	2.00	17.3		
Total Xylenes*	<0.150	0.150	08/20/2024	ND	7.04	117	6.00	16.3		
Total BTEx	<0.300	0.300	08/20/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	223	111	200	2.24	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	215	108	200	5.97	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 82.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.2 % 49.1-148

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Analytical Results For:

Hungry Horse Environmental
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 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	08/16/2024	Sampling Date:	08/16/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: FL 11 - 5' (H245008-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/20/2024	ND	2.19	110	2.00	13.0		
Toluene*	<0.050	0.050	08/20/2024	ND	2.27	114	2.00	15.1		
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.37	119	2.00	17.3		
Total Xylenes*	<0.150	0.150	08/20/2024	ND	7.04	117	6.00	16.3		
Total BTEX	<0.300	0.300	08/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	205	102	200	1.80	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	215	108	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 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:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	08/16/2024	Sampling Date:	08/16/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: FL 12 - 5' (H245008-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/20/2024	ND	2.19	110	2.00	13.0		
Toluene*	<0.050	0.050	08/20/2024	ND	2.27	114	2.00	15.1		
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.37	119	2.00	17.3		
Total Xylenes*	<0.150	0.150	08/20/2024	ND	7.04	117	6.00	16.3		
Total BTEx	<0.300	0.300	08/20/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	205	102	200	1.80	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	215	108	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
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 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	08/16/2024	Sampling Date:	08/16/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: FL 13 - 5' (H245008-13)

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	08/20/2024	ND	2.19	110	2.00	13.0		
Toluene*	<0.050	0.050	08/20/2024	ND	2.27	114	2.00	15.1		
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.37	119	2.00	17.3		
Total Xylenes*	<0.150	0.150	08/20/2024	ND	7.04	117	6.00	16.3		
Total BTEX	<0.300	0.300	08/20/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	205	102	200	1.80	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	215	108	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
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 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	08/16/2024	Sampling Date:	08/16/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: FL 14 - 5' (H245008-14)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/20/2024	ND	2.19	110	2.00	13.0		
Toluene*	<0.050	0.050	08/20/2024	ND	2.27	114	2.00	15.1		
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.37	119	2.00	17.3		
Total Xylenes*	<0.150	0.150	08/20/2024	ND	7.04	117	6.00	16.3		
Total BTEX	<0.300	0.300	08/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	205	102	200	1.80	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	215	108	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	08/16/2024	Sampling Date:	08/16/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: FL 15 - 5' (H245008-15)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/20/2024	ND	2.19	110	2.00	13.0		
Toluene*	<0.050	0.050	08/20/2024	ND	2.27	114	2.00	15.1		
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.37	119	2.00	17.3		
Total Xylenes*	<0.150	0.150	08/20/2024	ND	7.04	117	6.00	16.3		
Total BTEX	<0.300	0.300	08/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	205	102	200	1.80	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	215	108	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 98.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	08/16/2024	Sampling Date:	08/16/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: FL 16 - 5' (H245008-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/20/2024	ND	2.19	110	2.00	13.0		
Toluene*	<0.050	0.050	08/20/2024	ND	2.27	114	2.00	15.1		
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.37	119	2.00	17.3		
Total Xylenes*	<0.150	0.150	08/20/2024	ND	7.04	117	6.00	16.3		
Total BTEX	<0.300	0.300	08/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	205	102	200	1.80	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	215	108	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	08/16/2024	Sampling Date:	08/16/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: FL 17 - 5' (H245008-17)

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	08/20/2024	ND	2.19	110	2.00	13.0		
Toluene*	<0.050	0.050	08/20/2024	ND	2.27	114	2.00	15.1		
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.37	119	2.00	17.3		
Total Xylenes*	<0.150	0.150	08/20/2024	ND	7.04	117	6.00	16.3		
Total BTEX	<0.300	0.300	08/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	205	102	200	1.80	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	215	108	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	08/16/2024	Sampling Date:	08/16/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: FL 18 - 5' (H245008-18)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/20/2024	ND	2.19	110	2.00	13.0		
Toluene*	<0.050	0.050	08/20/2024	ND	2.27	114	2.00	15.1		
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.37	119	2.00	17.3		
Total Xylenes*	<0.150	0.150	08/20/2024	ND	7.04	117	6.00	16.3		
Total BTEX	<0.300	0.300	08/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	205	102	200	1.80	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	215	108	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	08/16/2024	Sampling Date:	08/16/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: FL 19 - 5' (H245008-19)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/20/2024	ND	2.19	110	2.00	13.0		
Toluene*	<0.050	0.050	08/20/2024	ND	2.27	114	2.00	15.1		
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.37	119	2.00	17.3		
Total Xylenes*	<0.150	0.150	08/20/2024	ND	7.04	117	6.00	16.3		
Total BTEx	<0.300	0.300	08/20/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	205	102	200	1.80	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	215	108	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 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:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	08/16/2024	Sampling Date:	08/16/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: FL 20 - 5' (H245008-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/20/2024	ND	2.16	108	2.00	8.45	QM-07	
Toluene*	<0.050	0.050	08/20/2024	ND	2.06	103	2.00	11.9		
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.20	110	2.00	15.5		
Total Xylenes*	<0.150	0.150	08/20/2024	ND	6.84	114	6.00	16.4		
Total BTEx	<0.300	0.300	08/20/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	205	102	200	1.80	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	215	108	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 49.1-148

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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
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 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	08/16/2024	Sampling Date:	08/16/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: FL 21 - 5' (H245008-21)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/20/2024	ND	2.16	108	2.00	8.45		
Toluene*	<0.050	0.050	08/20/2024	ND	2.06	103	2.00	11.9		
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.20	110	2.00	15.5		
Total Xylenes*	<0.150	0.150	08/20/2024	ND	6.84	114	6.00	16.4		
Total BTEX	<0.300	0.300	08/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	205	102	200	1.80	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	215	108	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 88.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
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 Fax To: (505) 391-4585

Received:	08/16/2024	Sampling Date:	08/16/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: FL 22 - 5' (H245008-22)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/20/2024	ND	2.16	108	2.00	8.45		
Toluene*	<0.050	0.050	08/20/2024	ND	2.06	103	2.00	11.9		
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.20	110	2.00	15.5		
Total Xylenes*	<0.150	0.150	08/20/2024	ND	6.84	114	6.00	16.4		
Total BTEX	<0.300	0.300	08/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	205	102	200	1.80	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	215	108	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 97.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
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 Fax To: (505) 391-4585

Received:	08/16/2024	Sampling Date:	08/16/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: FL 23 - 5' (H245008-23)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/20/2024	ND	2.16	108	2.00	8.45		
Toluene*	<0.050	0.050	08/20/2024	ND	2.06	103	2.00	11.9		
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.20	110	2.00	15.5		
Total Xylenes*	<0.150	0.150	08/20/2024	ND	6.84	114	6.00	16.4		
Total BTEX	<0.300	0.300	08/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	205	102	200	1.80	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	215	108	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	08/16/2024	Sampling Date:	08/16/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: FL 24 - 5' (H245008-24)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/20/2024	ND	2.16	108	2.00	8.45		
Toluene*	<0.050	0.050	08/20/2024	ND	2.06	103	2.00	11.9		
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.20	110	2.00	15.5		
Total Xylenes*	<0.150	0.150	08/20/2024	ND	6.84	114	6.00	16.4		
Total BTEx	<0.300	0.300	08/20/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	205	102	200	1.80	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	215	108	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	08/16/2024	Sampling Date:	08/16/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: FL 25 - 5' (H245008-25)

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	08/20/2024	ND	2.16	108	2.00	8.45		
Toluene*	<0.050	0.050	08/20/2024	ND	2.06	103	2.00	11.9		
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.20	110	2.00	15.5		
Total Xylenes*	<0.150	0.150	08/20/2024	ND	6.84	114	6.00	16.4		
Total BTEx	<0.300	0.300	08/20/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	205	102	200	1.80	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	215	108	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	08/16/2024	Sampling Date:	08/16/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: FL 26 - 5' (H245008-26)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/20/2024	ND	2.16	108	2.00	8.45		
Toluene*	<0.050	0.050	08/20/2024	ND	2.06	103	2.00	11.9		
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.20	110	2.00	15.5		
Total Xylenes*	<0.150	0.150	08/20/2024	ND	6.84	114	6.00	16.4		
Total BTEX	<0.300	0.300	08/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	205	102	200	1.80	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	215	108	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 138 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
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 Fax To: (505) 391-4585

Received:	08/16/2024	Sampling Date:	08/16/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: FL 27 - 5' (H245008-27)

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	08/20/2024	ND	2.16	108	2.00	8.45		
Toluene*	<0.050	0.050	08/20/2024	ND	2.06	103	2.00	11.9		
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.20	110	2.00	15.5		
Total Xylenes*	<0.150	0.150	08/20/2024	ND	6.84	114	6.00	16.4		
Total BTEx	<0.300	0.300	08/20/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/20/2024	ND	205	102	200	1.80	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	215	108	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 144 % 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:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	08/16/2024	Sampling Date:	08/16/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: FL 28 - 5' (H245008-28)

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	08/20/2024	ND	2.16	108	2.00	8.45		
Toluene*	<0.050	0.050	08/20/2024	ND	2.06	103	2.00	11.9		
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.20	110	2.00	15.5		
Total Xylenes*	<0.150	0.150	08/20/2024	ND	6.84	114	6.00	16.4		
Total BTEx	<0.300	0.300	08/20/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/20/2024	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	08/20/2024	ND	205	102	200	1.80	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	215	108	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 98.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	08/16/2024	Sampling Date:	08/16/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: SW 1 (H245008-29)

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	08/20/2024	ND	2.16	108	2.00	8.45		
Toluene*	<0.050	0.050	08/20/2024	ND	2.06	103	2.00	11.9		
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.20	110	2.00	15.5		
Total Xylenes*	<0.150	0.150	08/20/2024	ND	6.84	114	6.00	16.4		
Total BTEX	<0.300	0.300	08/20/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/20/2024	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	08/20/2024	ND	205	102	200	1.80	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	215	108	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 93.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	08/16/2024	Sampling Date:	08/16/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: SW 2 (H245008-30)

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	08/20/2024	ND	2.16	108	2.00	8.45		
Toluene*	<0.050	0.050	08/20/2024	ND	2.06	103	2.00	11.9		
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.20	110	2.00	15.5		
Total Xylenes*	<0.150	0.150	08/20/2024	ND	6.84	114	6.00	16.4		
Total BTEx	<0.300	0.300	08/20/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/20/2024	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	08/20/2024	ND	205	102	200	1.80	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	215	108	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	08/16/2024	Sampling Date:	08/16/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: SW 3 (H245008-31)

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	08/20/2024	ND	2.16	108	2.00	8.45		
Toluene*	<0.050	0.050	08/20/2024	ND	2.06	103	2.00	11.9		
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.20	110	2.00	15.5		
Total Xylenes*	<0.150	0.150	08/20/2024	ND	6.84	114	6.00	16.4		
Total BTEx	<0.300	0.300	08/20/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/20/2024	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	08/20/2024	ND	212	106	200	0.231	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	207	104	200	0.421	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 92.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	08/16/2024	Sampling Date:	08/16/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: SW 4 (H245008-32)

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	08/20/2024	ND	2.16	108	2.00	8.45		
Toluene*	<0.050	0.050	08/20/2024	ND	2.06	103	2.00	11.9		
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.20	110	2.00	15.5		
Total Xylenes*	<0.150	0.150	08/20/2024	ND	6.84	114	6.00	16.4		
Total BTEx	<0.300	0.300	08/20/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/20/2024	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	08/20/2024	ND	212	106	200	0.231	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	207	104	200	0.421	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	08/16/2024	Sampling Date:	08/16/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: SW 5 (H245008-33)

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	08/20/2024	ND	2.16	108	2.00	8.45		
Toluene*	<0.050	0.050	08/20/2024	ND	2.06	103	2.00	11.9		
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.20	110	2.00	15.5		
Total Xylenes*	<0.150	0.150	08/20/2024	ND	6.84	114	6.00	16.4		
Total BTEX	<0.300	0.300	08/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/20/2024	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	08/20/2024	ND	212	106	200	0.231	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	207	104	200	0.421	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	08/16/2024	Sampling Date:	08/16/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: SW 6 (H245008-34)

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	08/20/2024	ND	2.16	108	2.00	8.45		
Toluene*	<0.050	0.050	08/20/2024	ND	2.06	103	2.00	11.9		
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.20	110	2.00	15.5		
Total Xylenes*	<0.150	0.150	08/20/2024	ND	6.84	114	6.00	16.4		
Total BTEX	<0.300	0.300	08/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/20/2024	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	08/20/2024	ND	212	106	200	0.231	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	207	104	200	0.421	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	08/16/2024	Sampling Date:	08/16/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: SW 7 (H245008-35)

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	08/20/2024	ND	2.16	108	2.00	8.45		
Toluene*	<0.050	0.050	08/20/2024	ND	2.06	103	2.00	11.9		
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.20	110	2.00	15.5		
Total Xylenes*	<0.150	0.150	08/20/2024	ND	6.84	114	6.00	16.4		
Total BTEX	<0.300	0.300	08/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/20/2024	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	08/20/2024	ND	212	106	200	0.231	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	207	104	200	0.421	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
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 Fax To: (505) 391-4585

Received:	08/16/2024	Sampling Date:	08/16/2024
Reported:	08/21/2024	Sampling Type:	Soil
Project Name:	PARDUE D 8808 JV - P # 2 TANK BATTEI	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	BTA UL/ D SEC 11 T23S - R28E		

Sample ID: SW 8 (H245008-36)

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	08/20/2024	ND	2.16	108	2.00	8.45		
Toluene*	<0.050	0.050	08/20/2024	ND	2.06	103	2.00	11.9		
Ethylbenzene*	<0.050	0.050	08/20/2024	ND	2.20	110	2.00	15.5		
Total Xylenes*	<0.150	0.150	08/20/2024	ND	6.84	114	6.00	16.4		
Total BTEx	<0.300	0.300	08/20/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/20/2024	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	08/20/2024	ND	212	106	200	0.231	
DRO >C10-C28*	<10.0	10.0	08/20/2024	ND	207	104	200	0.421	
EXT DRO >C28-C36	<10.0	10.0	08/20/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Hungry Horse LLC	P.O. #:	
Project Manager:	Daniel Dominguez	Company:	BTA Oil Producers, LLC
Address:	PO Box 1058	Attn:	Ray Ramos
City:	Hobbs	State:	NM
Phone #:	575 393-3386	Fax #:	
Project #:		Project Owner:	BTA Oil Producers, LLC
Project Name:	Pardue D 8808 JV-P #2 Tank Battery	City:	Midland
Project Location:	UL/D Sec 11 T23S - R28E	State:	TX
Sampler Name:	Jerry Heidelberg	Phone #:	432-312-2203
		Fax #:	

FOR LAB USE ONLY		BILL TO		ANALYSIS REQUEST	
Lab I.D.	Sample I.D.	P.O. #:			
11245808		Company:		BTA Oil Producers, LLC	
		Attn:		Ray Ramos	
		Address:		104 S Pecos St	
		City:		Midland	
		State:		TX	
		Phone #:		432-312-2203	
		Fax #:			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX						DATE	TIME	Chloride	TPH	BTEX 8021
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER					
1	FL1-5'	C 1	1	X						8/16/24	10:05	X	X	X
2	FL2-5'	C 1	1	X						8/16/24	10:10	X	X	X
3	FL3-5'	C 1	1	X						8/16/24	10:15	X	X	X
4	FL4-5'	C 1	1	X						8/16/24	10:20	X	X	X
5	FL5-5'	C 1	1	X						8/16/24	10:25	X	X	X
6	FL6-5'	C 1	1	X						8/16/24	10:30	X	X	X
7	FL7-5'	C 1	1	X						8/16/24	10:35	X	X	X
8	FL8-5'	C 1	1	X						8/16/24	10:40	X	X	X
9	FL9-5'	C 1	1	X						8/16/24	10:45	X	X	X
10	FL10-5'	C 1	1	X						8/16/24	10:50	X	X	X

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Relinquished By:	Date:	Received By:
<i>[Signature]</i>	8-16-24	<i>[Signature]</i>
Time:	1:543	
Date:		
Time:		

Delivered By: (Circle One)	Sample Condition	CHECKED BY:
Sampler - UPS - Bus - Other:	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	(Initials)
	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	<i>[Signature]</i>

REMARKS:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:

Email results to: pm@hungry-horse.com
rramos@btaoil.com



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Hungry Horse LLC		P.O. #:		BILL TO		ANALYSIS REQUEST																																							
Project Manager: Daniel Dominguez		Company: BTA Oil Producers, LLC		Attn: Ray Ramos																																									
Address: PO Box 1058		Attn: Ray Ramos		Address: 104 S Pecos St.																																									
City: Hobbs		State: NM		Zip: 88241																																									
Phone #: 575 393-3386		Fax #:		City: Midland																																									
Project #:		Project Owner: BTA Oil Producers, LLC		State: TX		Zip: 79701																																							
Project Name: Pardue D 8808 JV-P #2 Tank Battery		State: NM		Phone #: 432-312-2203																																									
Project Location: UL/ D Sec 11 T23S - R28E		Fax #:																																											
Sampler Name: Jerry Heidelberg																																													
FOR LAB USE ONLY																																													
Lab I.D. Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER		ACID/BASE		ICE / COOL		OTHER		DATE		TIME		Chloride		TPH		BTEX 8021													
11245608		C 1		X		X		X		X		X		X		X		X		X		X		8/16/24		11:45		X		X		X													
21		FL21-5'		C 1		X		X		X		X		X		X		X		X		X		8/16/24		11:50		X		X		X													
22		FL22-5'		C 1		X		X		X		X		X		X		X		X		X		8/16/24		11:55		X		X		X													
23		FL23-5'		C 1		X		X		X		X		X		X		X		X		X		8/16/24		12:00		X		X		X													
24		FL24-5'		C 1		X		X		X		X		X		X		X		X		X		8/16/24		12:05		X		X		X													
25		FL25-5'		C 1		X		X		X		X		X		X		X		X		X		8/16/24		12:10		X		X		X													
26		FL26-5'		C 1		X		X		X		X		X		X		X		X		X		8/16/24		12:15		X		X		X													
27		FL27-5'		C 1		X		X		X		X		X		X		X		X		X		8/16/24		12:20		X		X		X													
28		FL28-5'		C 1		X		X		X		X		X		X		X		X		X		8/16/24		12:20		X		X		X													
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Relinquished By: [Signature]		Date: 8/16/24		Time: 1543		Received By: [Signature]		Date: 8/16/24		Time: 1543		Phone Result: [] Yes [] No		Fax Result: [] Yes [] No		Add'l Phone #: []		Add'l Fax #: []																											
Delivered By: (Circle One) O.W.C. / C.F.-O.W.C.		Sample Condition		Cool Intact		Checked By: (Initials) HP																																							
Sampler - UPS - Bus - Other: O.W.C. / #140		Cool Intact		Yes [] No []																																									
Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476																																													
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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FOR LAB USE ONLY		Matrix		PRESERV.		SAMPLING																																							
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER		ACID/BASE		ICE / COOL		OTHER		DATE		TIME		Chloride		TPH		BTEX 8021											
29		SW1		C 1		X		8/16/24		12:25		X		X		X																													
30		SW2		C 1		X		8/16/24		12:30		X		X		X																													
31		SW3		C 1		X		8/16/24		12:35		X		X		X																													
32		SW4		C 1		X		8/16/24		12:40		X		X		X																													
33		SW5		C 1		X		8/16/24		12:45		X		X		X																													
34		SW6		C 1		X		8/16/24		12:50		X		X		X																													
35		SW7		C 1		X		8/16/24		12:55		X		X		X																													
36		SW8		C 1		X		8/16/24		13:00		X		X		X																													
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 404427

QUESTIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 404427
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1911230564
Incident Name	NAB1911230564 PARDUE D 8808 JV-P #002 @ 30-015-26406
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-26406] PARDUE D 8808 JV-P #002

Location of Release Source*Please answer all the questions in this group.*

Site Name	PARDUE D 8808 JV-P #002
Date Release Discovered	04/02/2019
Surface Owner	Federal

Incident Details*Please answer all the questions in this group.*

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release*Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*

Crude Oil Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc. Water Tank Crude Oil Released: 1 BBL Recovered: 1 BBL Lost: 0 BBL.
Produced Water Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc. Water Tank Produced Water Released: 122 BBL Recovered: 120 BBL Lost: 2 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 404427

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 404427
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: BTA HUNGRY Title: Environmental Manager Email: rramos@btaoil.com Date: 11/18/2024
--	--

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Oil Conservation Division
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QUESTIONS, Page 3

Action 404427

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 404427
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 100 (ft.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 200 and 300 (ft.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	Yes
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	07/12/2024
On what date will (or did) the final sampling or liner inspection occur	08/16/2024
On what date will (or was) the remediation complete(d)	09/30/2024
What is the estimated surface area (in square feet) that will be remediated	5600
What is the estimated volume (in cubic yards) that will be remediated	1100
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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Energy, Minerals and Natural Resources
Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS, Page 4

Action 404427

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 404427
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
Is (or was) there affected material present needing to be removed	Yes
Is (or was) there a power wash of the lined containment area (to be) performed	Yes
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: BTA HUNGRY Title: Environmental Manager Email: rramos@btaoil.com Date: 11/18/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 6

Action 404427

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 404427
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Liner Inspection Information	
Last liner inspection notification (C-141L) recorded	{Unavailable.}
Was all the impacted materials removed from the liner	Unavailable.

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	Yes
What was the total surface area (in square feet) remediated	5600
What was the total volume (cubic yards) remediated	1100
Summarize any additional remediation activities not included by answers (above)	Remediation activities were conducted in accordance with applicable NMOCD Regulations. Laboratory analytical results from confirmation samples indicate concentrations of BTEX, TPH, and chloride are below the NMOCD Closure Criteria.
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: BTA HUNGRY Title: Environmental Manager Email: rramos@btaoil.com Date: 11/18/2024

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CONDITIONS

Action 404427

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 404427
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	12/26/2024