



Remediation Summary and Closure Request

**BTA Oil Producers, LLC
Grama 8817 JV-P Tank Battery
Lea County, New Mexico
Unit Letter "M", Section 16, Township 22 South, Range 34 East
Latitude 32.386066 North, Longitude 103.481032 West
NMOCD Incident # nAPP2316732214**

Prepared For:

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

Prepared By:

Hungry Horse, LLC
4024 Plains Hwy
Lovington, NM 88260
Office: (575) 393-3386

July 2023

Bradley Wells

Bradley Wells
Project Manager
bwells@hungry-horse.com

Daniel Dominguez

Daniel Dominguez
Environmental Manager
ddominguez@hungry-horse.com

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Incident ID	nAPP2316732214
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	nAPP2316732214
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Shelly Wells Date: 8/1/2023

Incident ID	nAPP2316732214
District RP	
Facility ID	
Application ID	

Remediation Plan


Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Kelton Beaird Title: Environmental Manager
Signature:  Date: 8-1-2023
email: kbeaird@btaoil.com Telephone: 432-312-2203

OCD Only

Received by: Shelly Wells Date: 8/1/2023

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

Incident ID	nAPP2316732214
District RP	
Facility ID	
Application ID	


Closure

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

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

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

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

Printed Name: Kelton Beaird Title: Environmental Manager
Signature:  Date: 8-1-2023
email: kbeaird@btaoil.com Telephone: 432-312-2203

OCD Only

Received by: Shelly Wells Date: 8/1/2023

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

Closure Approved by:  Date: 10/24/2023
Printed Name: Nelson Velez Title: Environmental Specialist - Adv

Operator did not meet 19.15.29.12D (1a) NMAC for its delineation points as it pertains to its final sampling toward closure. Forbearance given on 10/24/2023. Closure report approved and release resolved.



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 M (SW/SW), Section 16, Township 22 South, Range 34 East, approximately twenty miles southwest of Eunice, in Lea County, New Mexico. The location is on New Mexico State Trust 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 within a polyethylene lined metal containment; Latitude 32.386066 North, Longitude 103.481032 West. The Initial NMOCD Form C-141 indicated that on June 15, 2023 approximately 872 bbls of produced water was released to lined containment due to a corroded nipple on the bottom of the stainless-steel suction strainer. A crew was dispatched to the site with a vacuum truck. The strainer was repaired and 870 bbls of fluid were recovered from lined containment; two bbls overflowed containment to pad. The overflow area was also surface scraped to remove wet soil. Previously submitted pages of the NMOCD Form C-141 are available on the NMOCD Imaging System. NMOCD Form Initial C-141 is also included as Attachment VII.

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 Karst designated area. Karst and Wetland Maps are provided as Attachment I. Depth to groundwater information is provided as Attachment IV and the results are depicted on Figures 2 & 3.

No water wells were located within a half mile of the release area. However, as the release occurred within a Karst designated area, the site was delineated and further remediated according to the strictest NMOCD Closure Criteria. Also, as two bbls of fluid overflowed to the pad area, a liner inspection was scheduled. Utilizing this information, the NMOCD Closure Criteria for the Site is depicted in the table below.

Depth to Groundwater	Constituent	Method	Limit
undetermined	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	N/A
	BTEX	EPA SW-846 Methods 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Methods 8021B or 8260B	10 mg/kg



Delineation and Remediation Activities:

On June 28, 2023, Hungry Horse conducted an initial site assessment consisting of photographing and mapping the release area. On July 5, 2023, Hungry Horse LLC notified NMOCD that a liner inspection would be conducted on July 7, 2023. Correspondence is provided as Attachment II.

On July 7, 2023, Hungry Horse personnel arrived on location to inspect the liner. The liner and metal containment were thoroughly inspected from edge to edge, as well as around the tanks and process equipment installed on the liner itself. The liner was found to be in place, intact, with no visible breaks, or tears. There was no evidence of the release leaking through the metal containment area. Photographs are provided as Attachment III and a completed Liner Inspection Form as Attachment V.

On July 21, 2023, the surface scraped overflow area outside containment was sampled. Surface samples were collected from within the scraped-up area. These sample locations are identified by SP designation. In addition, hand augered sample bores were advanced along the outside edges of the release area in an effort to determine the horizontal extent of contamination. These sample locations are identified by HZ designation. During the advancement of the hand augered sample bores, soil samples were collected and field screened for the presence of chloride concentrations utilizing a Hanna instruments® DiST® 4 EC tester and/or a Hach Quantab® chloride test kit.

Based on field observations and field test data noted above and provided in Attachment V, twelve representative soil samples were selected for laboratory analysis. Delineation soil samples SP1 through SP4, HZ1 through HZ4, 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 surface scraped area outside lined containment measured approximately eighty feet in length, and ten feet in width. During remediation activities approximately 3 cubic yards of impacted soil were scraped up and hauled to an NMOCD approved disposal facility.

A Delineation Sample Map is provided as Figure 4. A Summary of Soil Sample Laboratory Analytical Results is provided as Table 1 and Laboratory Analytical Reports are provided as Attachment VI.

Restoration, Reclamation, and Re-Vegetation:

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



Closure Request:

Remediation activities, and liner inspection, were conducted in accordance with applicable NMOCD Regulations. Soil affected above the NMOCD Closure Criteria has been scraped up and hauled to an NMOCD approved facility for disposal. Laboratory analytical results from confirmation samples indicate concentrations of BTEX, TPH, and chloride are below the NMOCD Closure Criteria.

Based on laboratory analytical results and a thorough liner inspection, BTA Oil Producers, LLC respectfully request closure of the Grama 8817 JV-P Tank Battery location, incident nAPP2316732214.

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

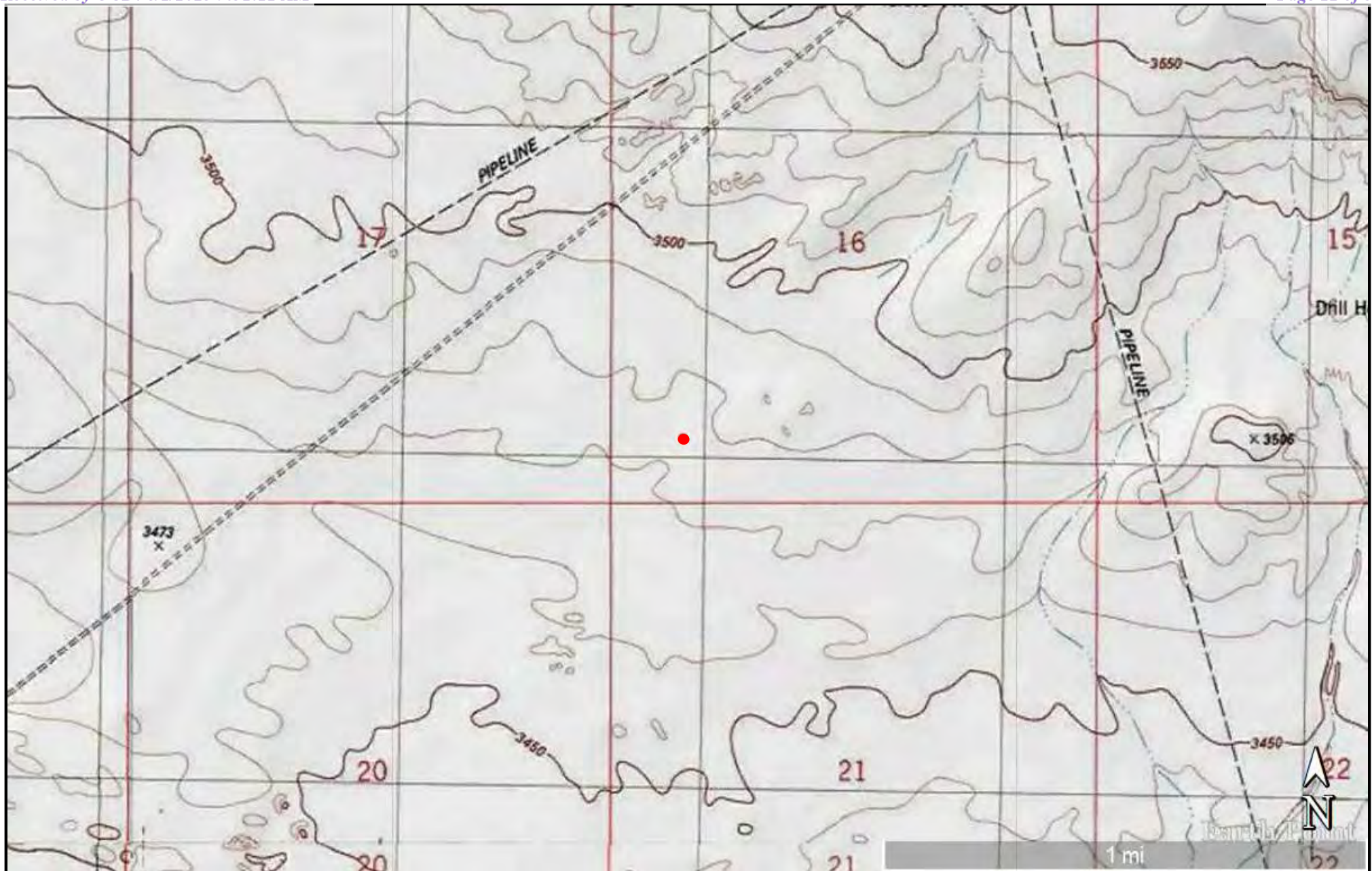
New Mexico Energy, Minerals and Natural Resources Department

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

New Mexico State Land Office

914 N. Linam St.
Hobbs, NM 88240

Figures

**Figure 1**

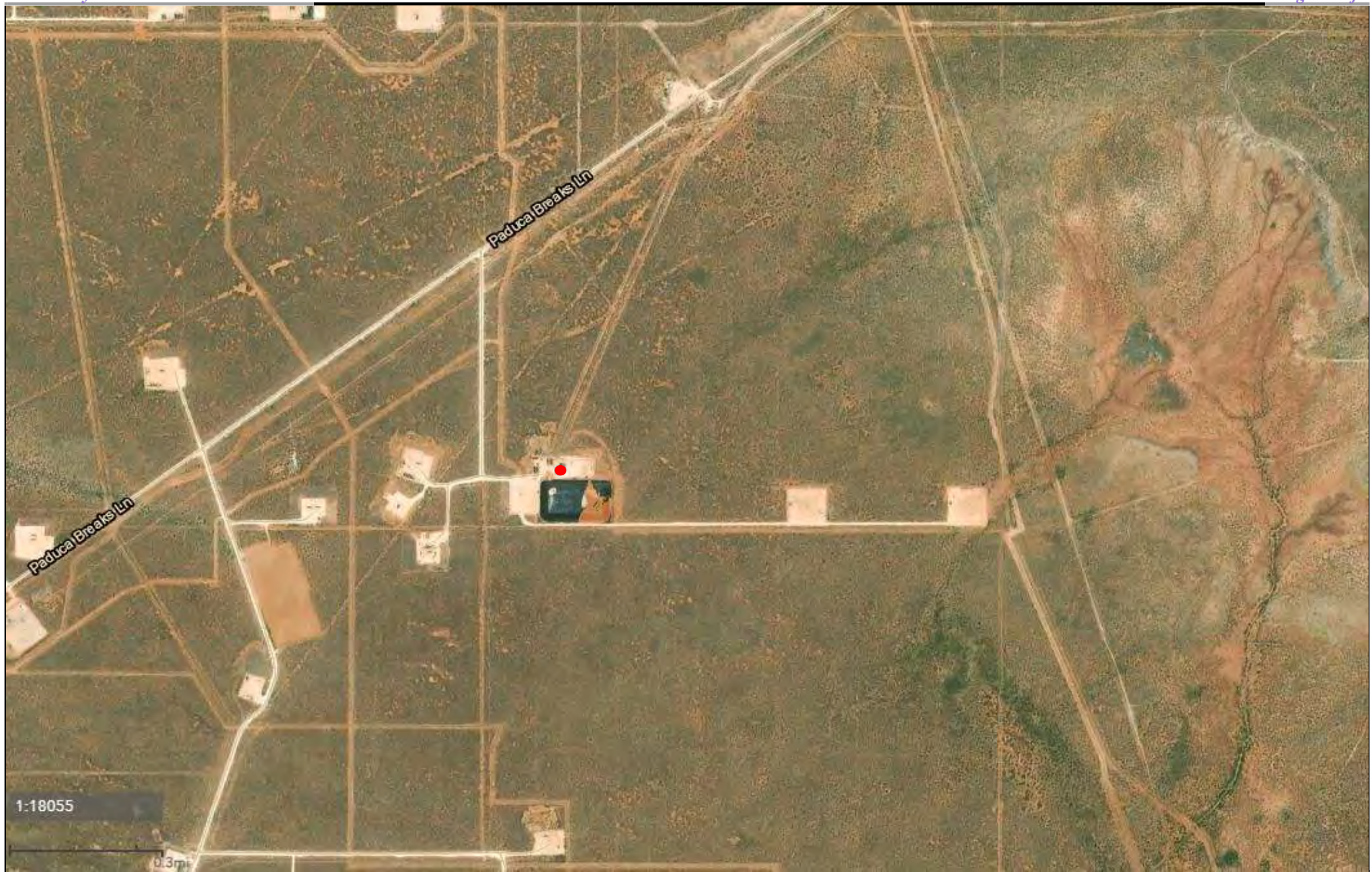
Topographic Map
 BTA Oil Producers, LLC
 Grama 8817 JV-P Tank Battery
 GPS: 32.386066, -103.481032
 Lea County

Legend:

- Grama 8817 JV-P Tank Battery Location

Drafted: bw
 Checked: dd
 Date: 6/28/23



**Figure 2**

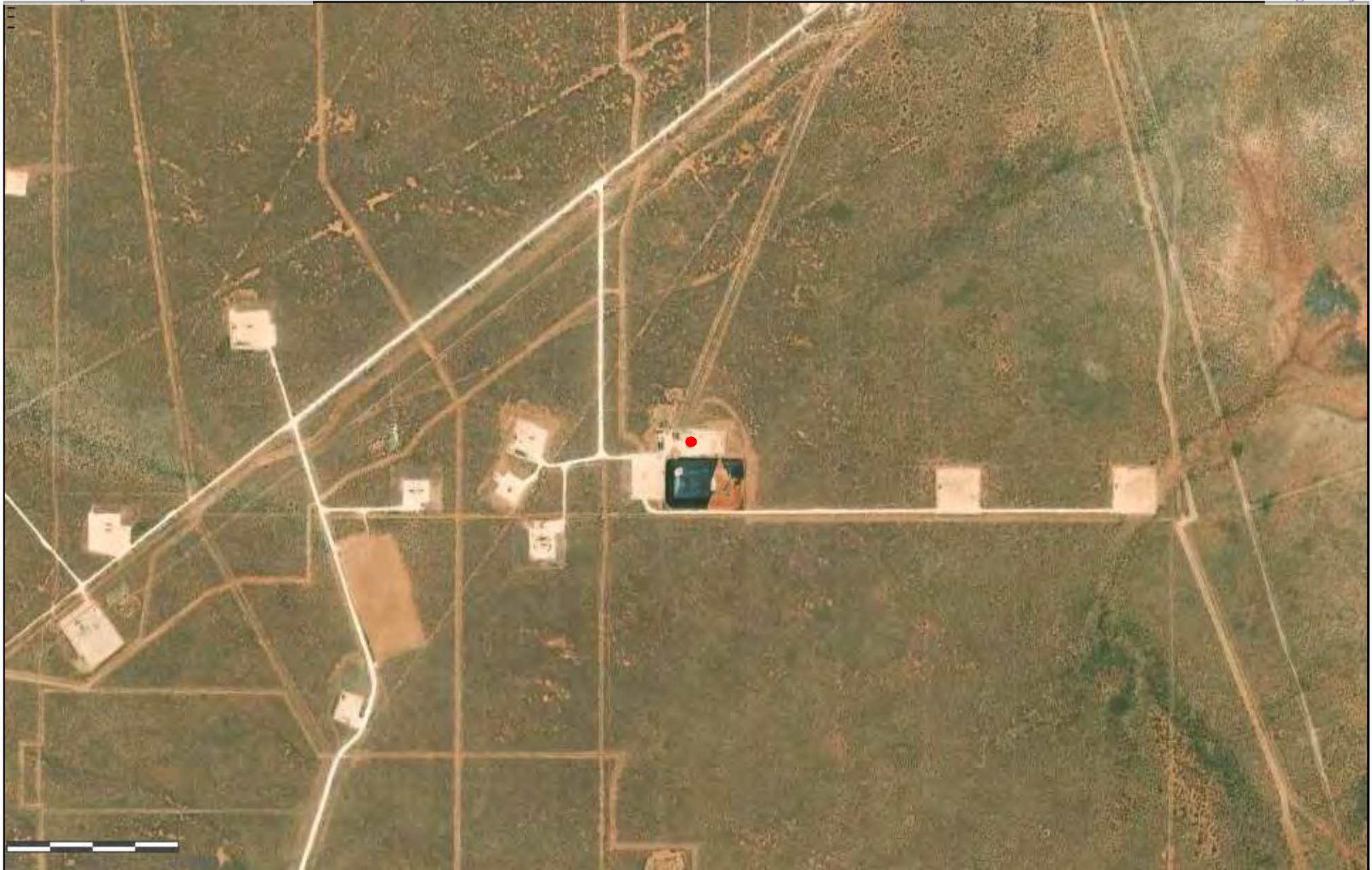
OSE POD Locations Map
BTA Oil Producers, LLC
Grama 8817 JV-P Tank Battery
GPS: 32.386066, -103.481032
Lea County

Legend:

- Grama 8817 JV-P Tank Battery Location

Drafted: bw
Checked: dd
Date: 6/28/203



**Figure 3**

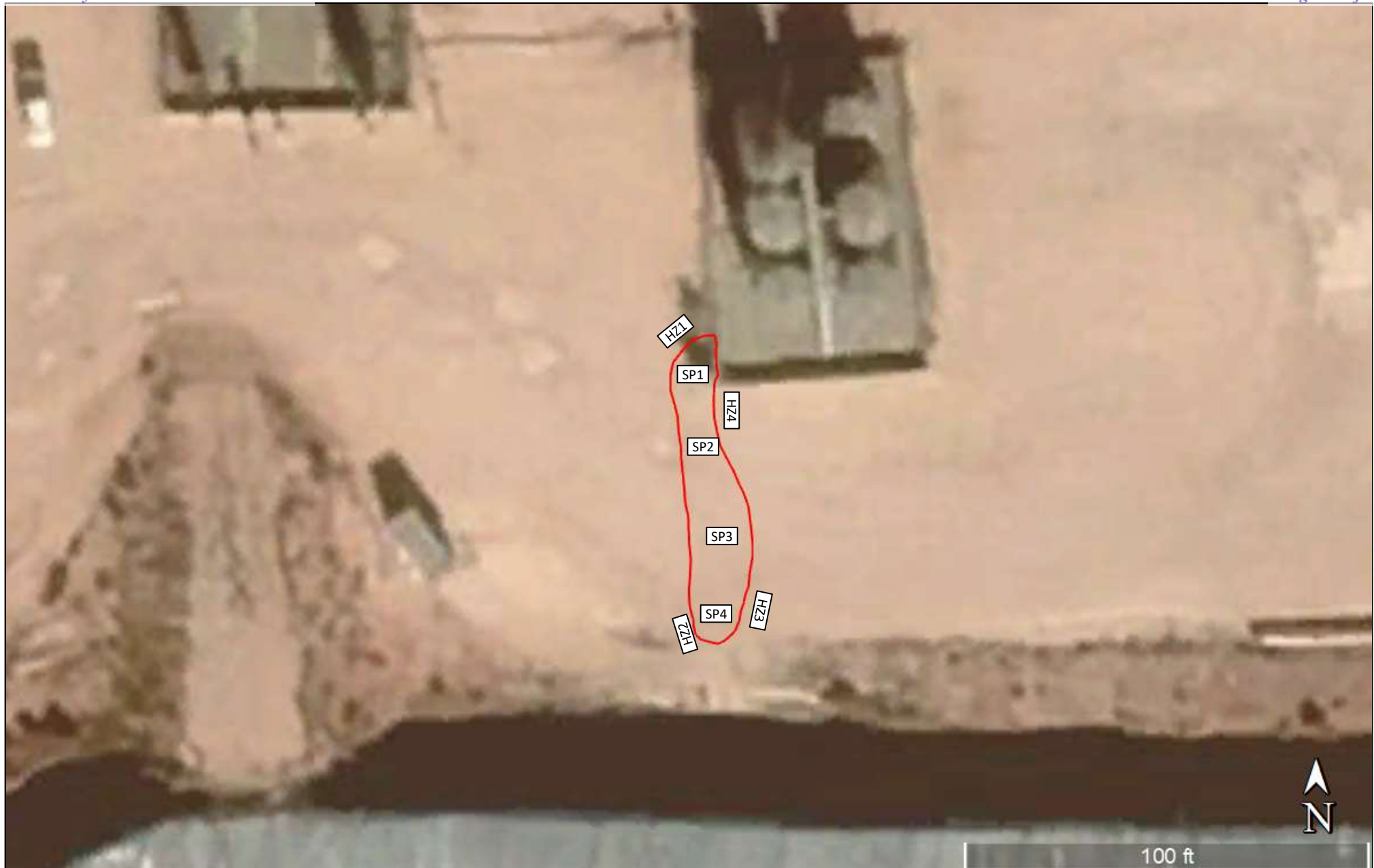
USGS Well Locations Map
BTA Oil Producers, LLC
Grama 8817 JV-P Tank Battery
GPS: 32.386066, -103.481032
Lea County

Legend:

- Grama 8817 JV-P Tank Battery Location




Drafted: bw
Checked: dd
Date: 6/28/23



**Figure 4**

Delineation Sample Map
BTA Oil Producers, LLC
Grama 8817 JV-P Tank Battery
GPS: 32.386066, -103.481032
Lea County

Legend:

-  Spill Area
-  Delineation Sample Location
-  Horizontal Sample Location

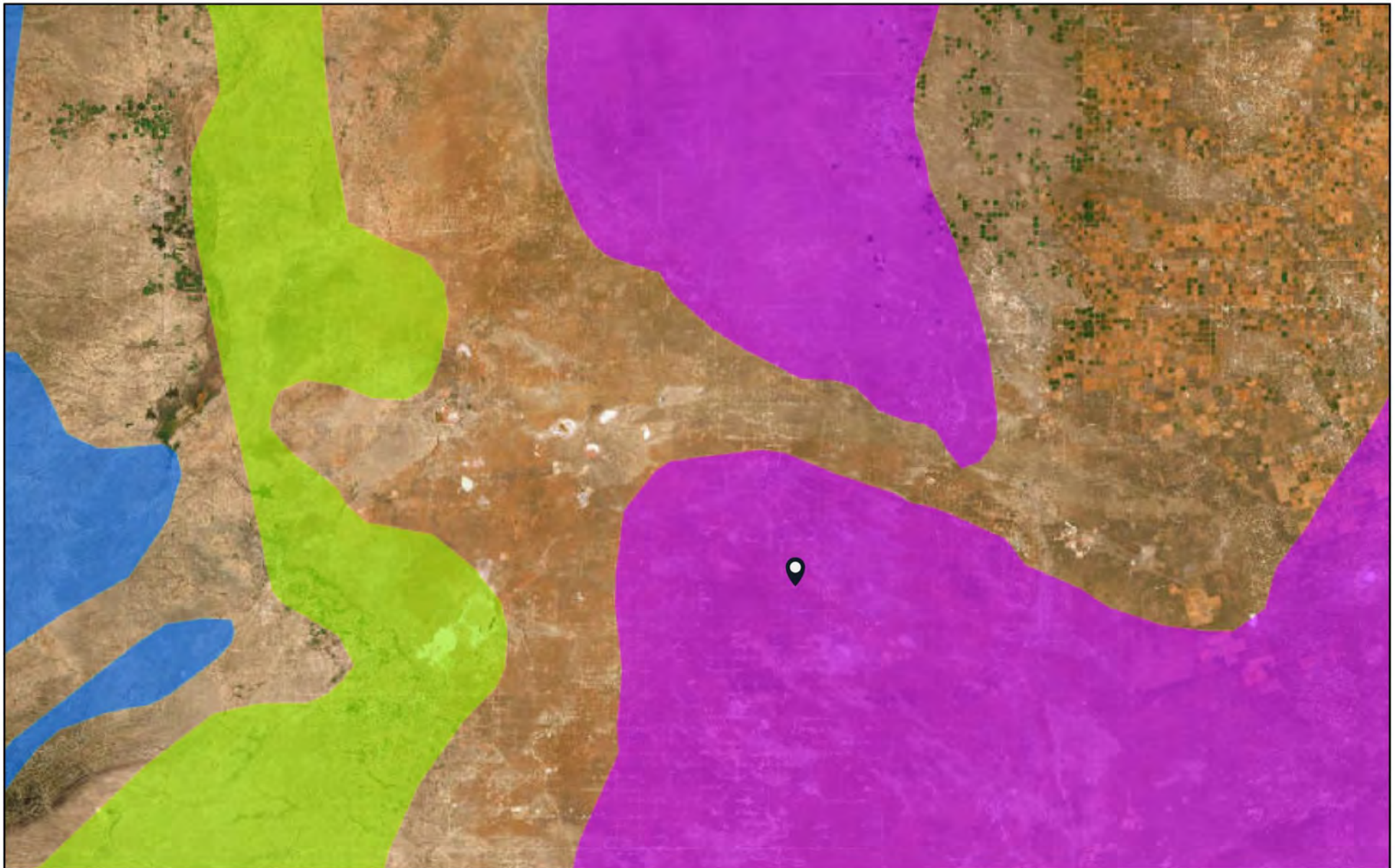
Drafted: bw
Checked: dd
Date: 7/21/23



Attachment I

Karst and Wetland Maps

Grama 8817 JV-P Tank Battery



7/27/2023

Karst Type

Carbonate

Erosional

Gypsum

Volcanic

World Imagery

Low Resolution 15m Imagery

High Resolution 60cm Imagery

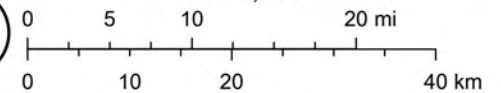
High Resolution 30cm Imagery

Citations

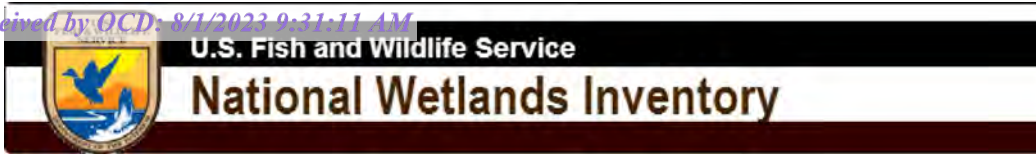
150m Resolution Metadata



1:879,206



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








Grama J8817 JV-P Tank Battery



July 27, 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.

Attachment II NMOCD Correspondence

Daniel Dominguez

From: Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>
Sent: Wednesday, July 5, 2023 9:26 AM
To: Daniel Dominguez; Enviro, OCD, EMNRD; Velez, Nelson, EMNRD
Subject: RE: [EXTERNAL] Liner Inspection

Good morning, Mr. Dominguez

Thank you for the notification. Please include a copy of this and all notifications in the C-141, remedial and/or closure reports to ensure the notifications are documented in the project file.

Regards,

Mike Buchanan • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE | Albuquerque, NM 87113
| michael.buchanan@emnrd.nm.gov
<http://www.emnrd.nm.gov/oed>



From: Daniel Dominguez <ddominguez@hungry-horse.com>
Sent: Wednesday, July 5, 2023 8:21 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 Grama 8817 JV-P Tank Battery (nAPP2316732214) on Friday July 7, 2023 at 8 am. This is our 2 day notice.

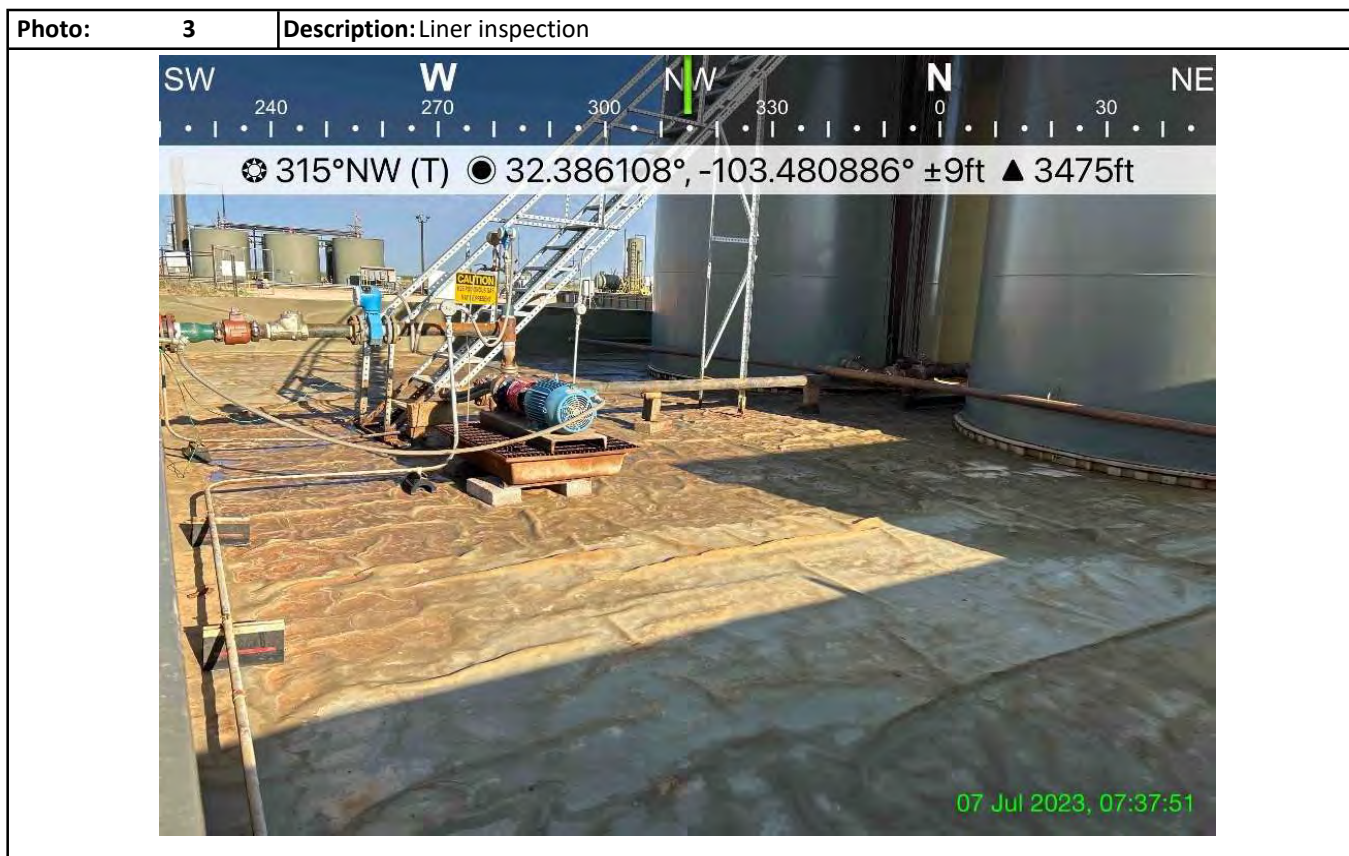
Daniel Dominguez
Environmental Manager
Hungry Horse, LLC
(mobile) 575-408-3134
ddominguez@hungry-horse.com

Attachment III Site Photographs

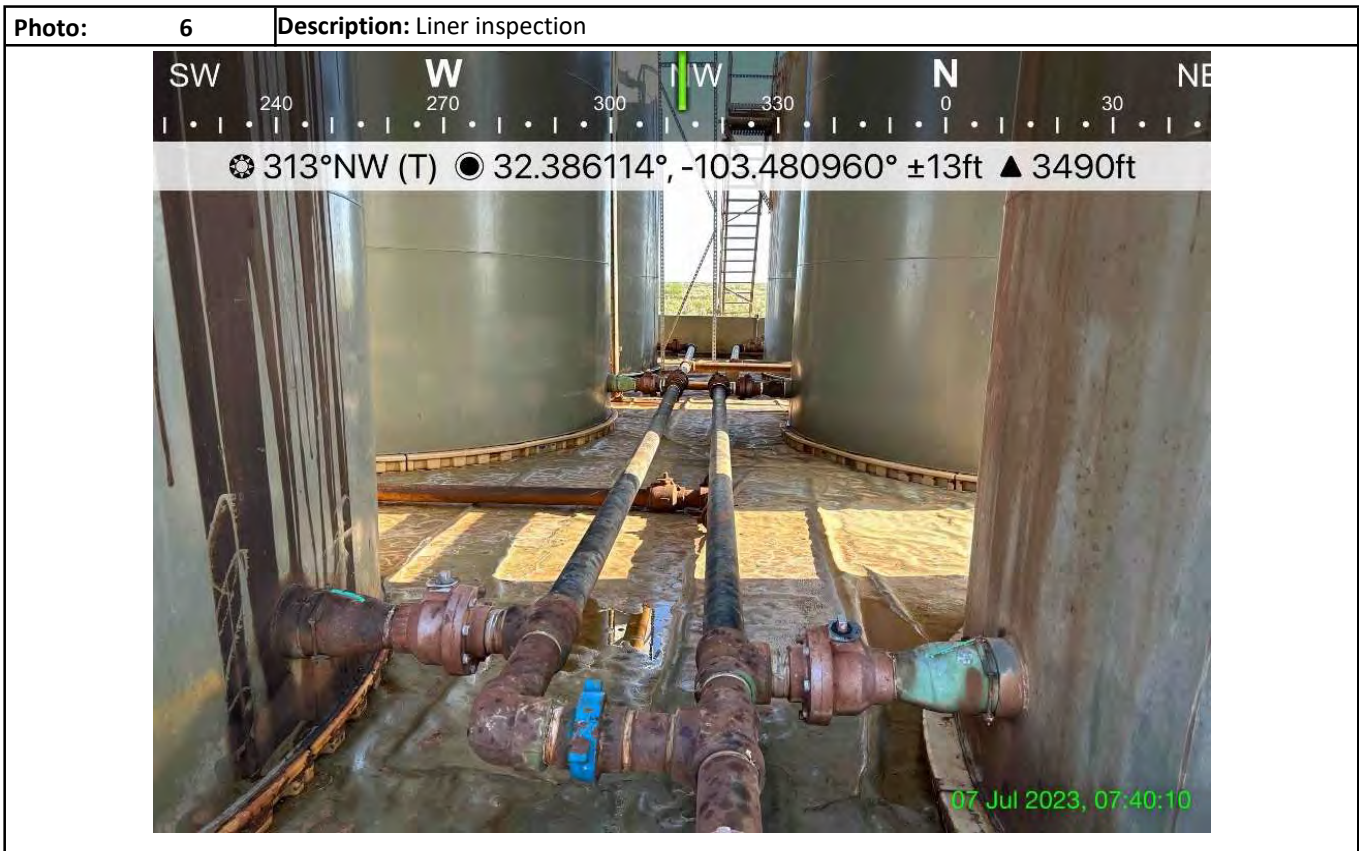
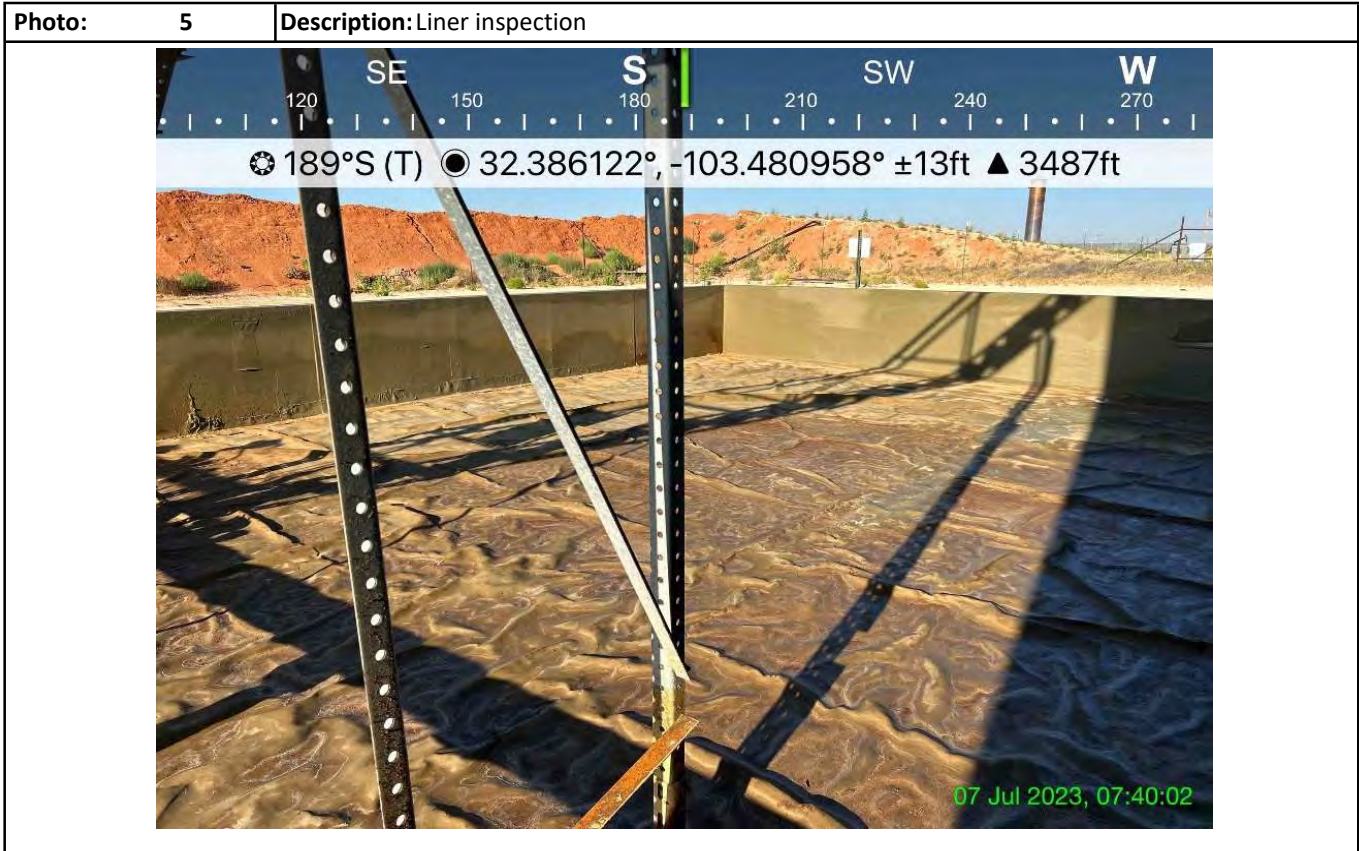
Photographs



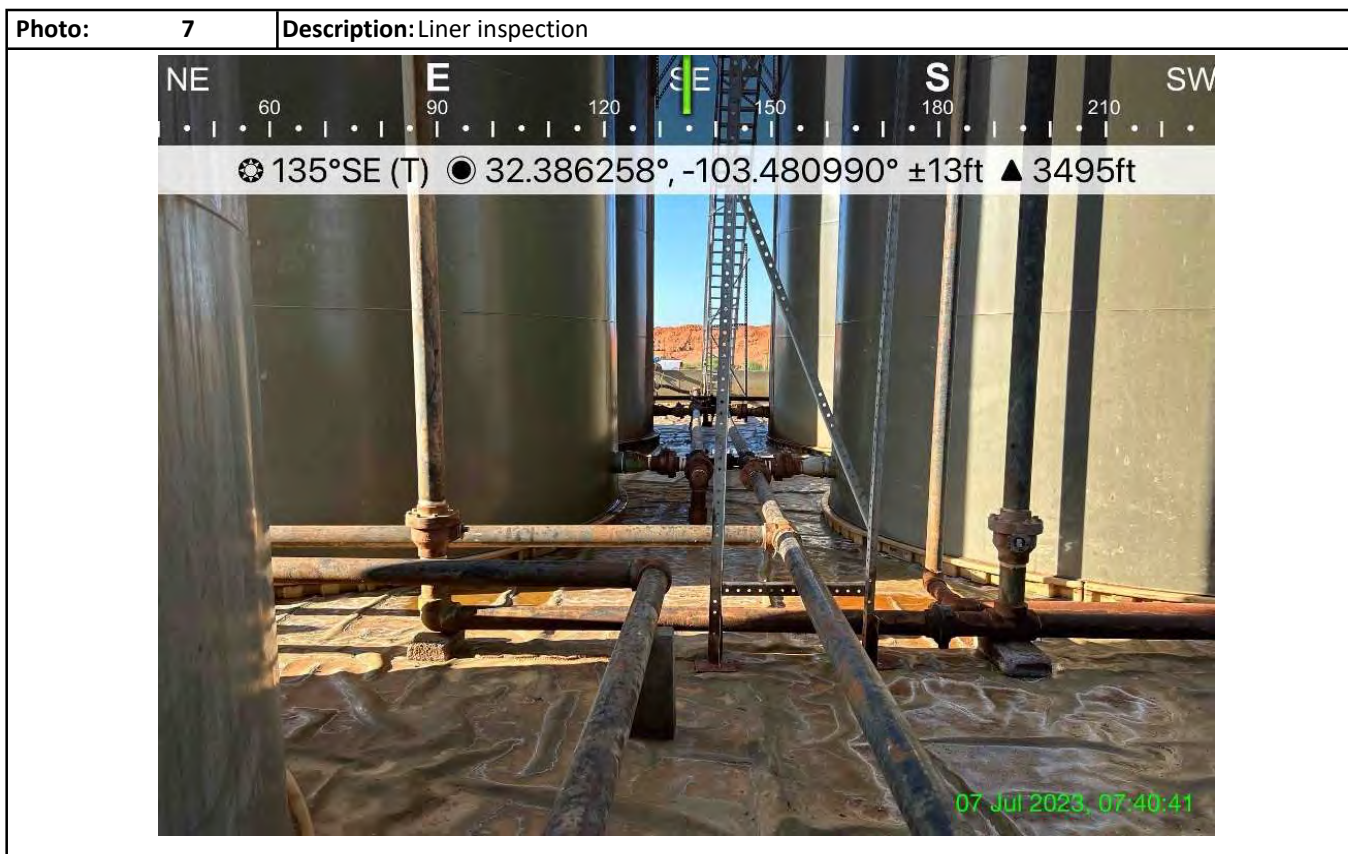
Photographs



Photographs



Photographs



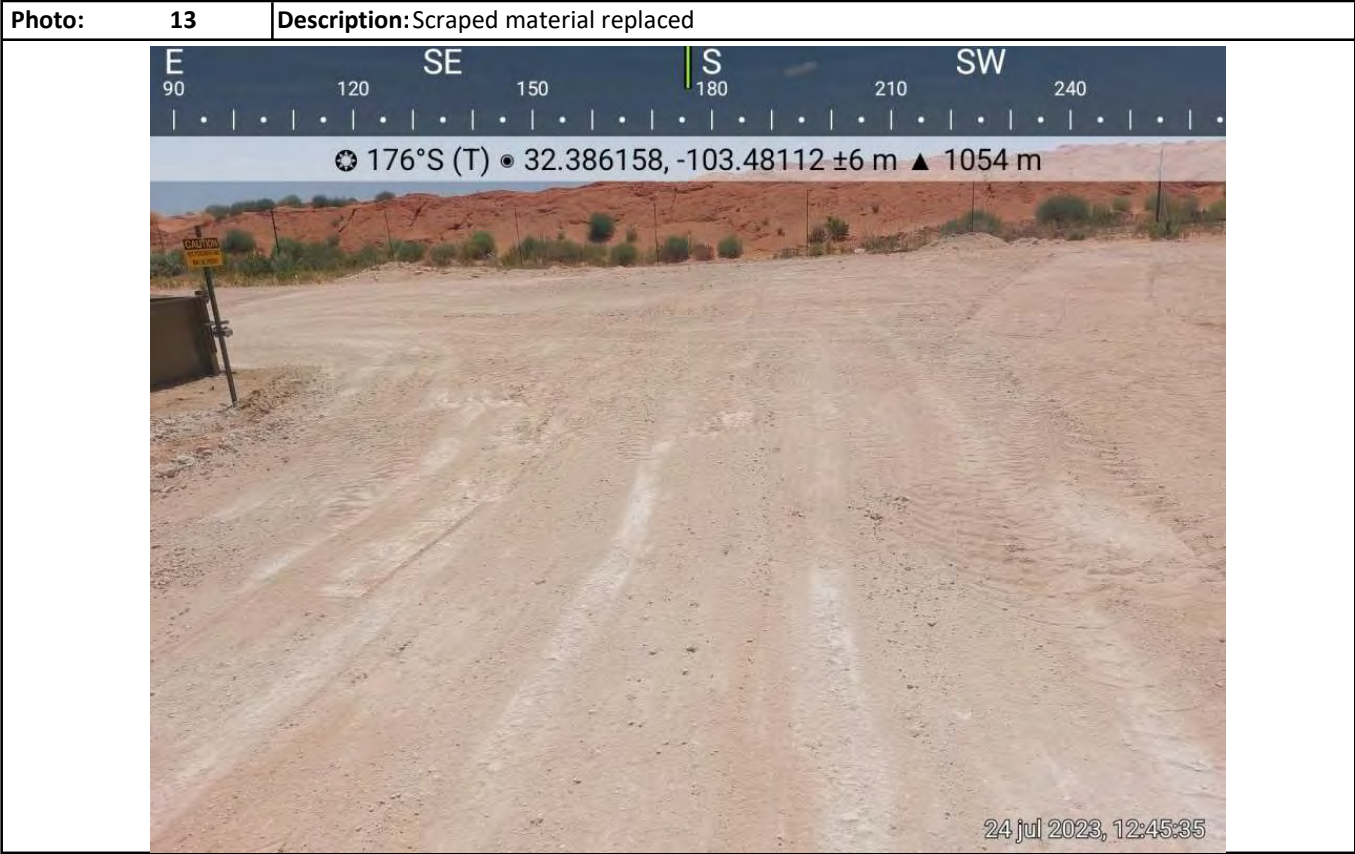
Photographs



Photographs



Photographs



Attachment IV

Depth to Groundwater



New Mexico Office of the State Engineer

Wells with Well Log Information

No wells found.

UTMNAD83 Radius Search (in meters):

Easting (X): 642883.45 Northing (Y): 3584251.5 Radius: 805

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 particular purpose of the data.

7/27/23 1:39 PM

WELLS WITH WELL LOG INFORMATION

Attachment V Liner Inspection Report and Field Data

Liner Inspection Form



Client BTA Oil Producers, LLC

Site Name Grama 8817 JV-P Tank Battery

Lat/Long 32.386066, -103.481032

Release Date 15-Jun-23

Incident Number nAPP2316732214

NMOCD Notified 05-Jul-23

Inspection Date 7/7/23

Observations	Yes	No	Comments
Is the liner present?	X		
Is the liner torn?		X	
Are there visible holes in the liner?		X	
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 immediate concerns or observations

Inspector Name Bradley Wells

Inspector Signature B. Wells

Sample Log

Sampler: ~~Bradley Wells~~ Jerry Heidelberg

Stockpile = Stockpile #1

Attachment VI

Laboratory Analytical Reports



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

July 28, 2023

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: GRAMA 8817 JV-P TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/21/23 12:59.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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:	07/21/2023	Sampling Date:	07/21/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	GRAMA 8817 JV-P TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	BTA UL/ M SEC 16 T22S - R34E		

Sample ID: HZ 1 - SURF (H233823-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2023	ND	2.05	103	2.00	2.34	
Toluene*	<0.050	0.050	07/27/2023	ND	1.98	99.2	2.00	1.40	
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.02	101	2.00	1.39	
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.03	101	6.00	1.53	
Total BTX	<0.300	0.300	07/27/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2023	ND	209	105	200	0.296	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	224	112	200	6.62	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane 120 % 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: 07/21/2023
 Reported: 07/28/2023
 Project Name: GRAMA 8817 JV-P TANK BATTERY
 Project Number: NONE GIVEN
 Project Location: BTA UL/ M SEC 16 T22S - R34E

Sampling Date: 07/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HZ 1 - 1' (H233823-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2023	ND	2.05	103	2.00	2.34		
Toluene*	<0.050	0.050	07/27/2023	ND	1.98	99.2	2.00	1.40		
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.02	101	2.00	1.39		
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.03	101	6.00	1.53		
Total BTEx	<0.300	0.300	07/27/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2023	ND	209	105	200	0.296	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	224	112	200	6.62	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 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: 07/21/2023
 Reported: 07/28/2023
 Project Name: GRAMA 8817 JV-P TANK BATTERY
 Project Number: NONE GIVEN
 Project Location: BTA UL/ M SEC 16 T22S - R34E

Sampling Date: 07/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HZ 2 - SURF (H233823-03)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2023	ND	2.05	103	2.00	2.34	
Toluene*	<0.050	0.050	07/27/2023	ND	1.98	99.2	2.00	1.40	
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.02	101	2.00	1.39	
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.03	101	6.00	1.53	
Total BTEx	<0.300	0.300	07/27/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/26/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2023	ND	209	105	200	0.296	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	224	112	200	6.62	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 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: 07/21/2023
 Reported: 07/28/2023
 Project Name: GRAMA 8817 JV-P TANK BATTERY
 Project Number: NONE GIVEN
 Project Location: BTA UL/ M SEC 16 T22S - R34E

Sampling Date: 07/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HZ 2 - 1' (H233823-04)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2023	ND	2.05	103	2.00	2.34		
Toluene*	<0.050	0.050	07/27/2023	ND	1.98	99.2	2.00	1.40		
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.02	101	2.00	1.39		
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.03	101	6.00	1.53		
Total BTEX	<0.300	0.300	07/27/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2023	ND	209	105	200	0.296	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	224	112	200	6.62	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane 114 % 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:	07/21/2023	Sampling Date:	07/21/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	GRAMA 8817 JV-P TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	BTA UL/ M SEC 16 T22S - R34E		

Sample ID: HZ 3 - SURF (H233823-05)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2023	ND	2.05	103	2.00	2.34	
Toluene*	<0.050	0.050	07/27/2023	ND	1.98	99.2	2.00	1.40	
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.02	101	2.00	1.39	
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.03	101	6.00	1.53	
Total BTEx	<0.300	0.300	07/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2023	ND	209	105	200	0.296	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	224	112	200	6.62	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 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: 07/21/2023
 Reported: 07/28/2023
 Project Name: GRAMA 8817 JV-P TANK BATTERY
 Project Number: NONE GIVEN
 Project Location: BTA UL/ M SEC 16 T22S - R34E

Sampling Date: 07/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HZ 3 - 1' (H233823-06)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2023	ND	2.05	103	2.00	2.34		
Toluene*	<0.050	0.050	07/27/2023	ND	1.98	99.2	2.00	1.40		
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.02	101	2.00	1.39		
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.03	101	6.00	1.53		
Total BTEx	<0.300	0.300	07/27/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2023	ND	209	105	200	0.296	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	224	112	200	6.62	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 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: 07/21/2023
 Reported: 07/28/2023
 Project Name: GRAMA 8817 JV-P TANK BATTERY
 Project Number: NONE GIVEN
 Project Location: BTA UL/ M SEC 16 T22S - R34E

Sampling Date: 07/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HZ 4 - SURF (H233823-07)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2023	ND	2.05	103	2.00	2.34	
Toluene*	<0.050	0.050	07/27/2023	ND	1.98	99.2	2.00	1.40	
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.02	101	2.00	1.39	
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.03	101	6.00	1.53	
Total BTEx	<0.300	0.300	07/27/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2023	ND	209	105	200	0.296	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	224	112	200	6.62	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 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: 07/21/2023
 Reported: 07/28/2023
 Project Name: GRAMA 8817 JV-P TANK BATTERY
 Project Number: NONE GIVEN
 Project Location: BTA UL/ M SEC 16 T22S - R34E

Sampling Date: 07/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HZ 4 - 1' (H233823-08)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2023	ND	2.05	103	2.00	2.34		
Toluene*	<0.050	0.050	07/27/2023	ND	1.98	99.2	2.00	1.40		
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.02	101	2.00	1.39		
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.03	101	6.00	1.53		
Total BTEX	<0.300	0.300	07/27/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2023	ND	209	105	200	0.296	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	224	112	200	6.62	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 11 of 11

Company Name: Hungry Horse LLC		BILL TO		ANALYSIS REQUEST																			
Project Manager: Daniel Dominguez		P.O. #:																					
Address: PO Box 1058		Company: BTA Oil Producers, LLC																					
City: Hobbs	State: NM	Zip: 88241	Attn: Kelton Beard																				
Phone #: 575 393-3386	Fax #:	Address: 104 S Pecos St.																					
Project #:	Project Owner: BTA Oil Producers, LLC	City: Midland																					
Project Name: Grama 8817 JV-P Tank Battery	State: TX	Zip: 79701																					
Project Location: UL/ M Sec 16 T2S - R34E	Phone #: 432-312-2203																						
Sampler Name: Jerry Heidelberg	Fax #:																						
FOR LAB USE ONLY																							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING		Chloride	TPH	BTEX 8021										
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:										ICE / COOL	OTHER :	DATE	TIME
H233823	1 HZ1-Surf	G	1			X				X												7/21/23	
	2 HZ1-1'	G	1			X				X												7/21/23	
	3 HZ2-Surf	G	1			X				X												7/21/23	
	4 HZ2-1'	G	1			X				X												7/21/23	
	5 HZ3-Surf	G	1			X				X												7/21/23	
	6 HZ3-1'	G	1			X				X												7/21/23	
	7 HZ4-Surf	G	1			X				X												7/21/23	
	8 HZ4-1'	G	1			X				X												7/21/23	

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Relinquished By: <i>Jerry Heidelberg</i>	Date: 7-21-23	Received By: <i>Jamara Reddy</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 1259		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: Email results to: pm@hungry-horse.com kbeaird@btaoil.com	
	Time:			
Delivered By: (Circle One)	#140	Sample Condition		
Sampler - UPS - Bus - Other: -1.0c		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <i>yo</i>	

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



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

July 28, 2023

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: GRAMA 8817 JV-P TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/21/23 12:59.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, 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:	07/21/2023	Sampling Date:	07/21/2023
Reported:	07/28/2023	Sampling Type:	Soil
Project Name:	GRAMA 8817 JV-P TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	BTA UL/ M SEC 16 T22S - R34E		

Sample ID: SP 1 - SURF (H233824-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2023	ND	2.05	103	2.00	2.34	
Toluene*	<0.050	0.050	07/27/2023	ND	1.98	99.2	2.00	1.40	
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.02	101	2.00	1.39	
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.03	101	6.00	1.53	
Total BTX	<0.300	0.300	07/27/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	07/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/26/2023	ND	209	105	200	0.296	
DRO >C10-C28*	<10.0	10.0	07/26/2023	ND	224	112	200	6.62	
EXT DRO >C28-C36	<10.0	10.0	07/26/2023	ND					

Surrogate: 1-Chlorooctane 106 % 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: 07/21/2023
 Reported: 07/28/2023
 Project Name: GRAMA 8817 JV-P TANK BATTERY
 Project Number: NONE GIVEN
 Project Location: BTA UL/ M SEC 16 T22S - R34E

Sampling Date: 07/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 - SURF (H233824-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2023	ND	2.05	103	2.00	2.34		
Toluene*	<0.050	0.050	07/27/2023	ND	1.98	99.2	2.00	1.40		
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.02	101	2.00	1.39		
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.03	101	6.00	1.53		
Total BTEx	<0.300	0.300	07/27/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/26/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2023	ND	174	87.2	200	12.7	QR-03
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	223	111	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 98.5 % 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: 07/21/2023
 Reported: 07/28/2023
 Project Name: GRAMA 8817 JV-P TANK BATTERY
 Project Number: NONE GIVEN
 Project Location: BTA UL/ M SEC 16 T22S - R34E

Sampling Date: 07/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 - SURF (H233824-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2023	ND	2.05	103	2.00	2.34		
Toluene*	<0.050	0.050	07/27/2023	ND	1.98	99.2	2.00	1.40		
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.02	101	2.00	1.39		
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.03	101	6.00	1.53		
Total BTEx	<0.300	0.300	07/27/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/26/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2023	ND	174	87.2	200	12.7	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	223	111	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 98.6 % 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: 07/21/2023
 Reported: 07/28/2023
 Project Name: GRAMA 8817 JV-P TANK BATTERY
 Project Number: NONE GIVEN
 Project Location: BTA UL/ M SEC 16 T22S - R34E

Sampling Date: 07/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 4 - SURF (H233824-04)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2023	ND	2.05	103	2.00	2.34		
Toluene*	<0.050	0.050	07/27/2023	ND	1.98	99.2	2.00	1.40		
Ethylbenzene*	<0.050	0.050	07/27/2023	ND	2.02	101	2.00	1.39		
Total Xylenes*	<0.150	0.150	07/27/2023	ND	6.03	101	6.00	1.53		
Total BTEx	<0.300	0.300	07/27/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/26/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/25/2023	ND	174	87.2	200	12.7	
DRO >C10-C28*	<10.0	10.0	07/25/2023	ND	223	111	200	1.56	
EXT DRO >C28-C36	<10.0	10.0	07/25/2023	ND					

Surrogate: 1-Chlorooctane 89.9 % 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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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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Attachment VII
NMOCD Form Initial C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2316732214
District RP	Hobbs
Facility ID	fDHR1912858946
Application ID	229059

Release Notification

Responsible Party

Responsible Party: BTA Oil Producers, LLC	OGRID: 260297
Contact Name: Kelton Beaird	Contact Telephone: 432-312-2203
Contact email: kbeaird@btaoil.com	Incident # (assigned by OCD)
Contact mailing address: 104 S. Pecos St., Midland, TX 79701	

Location of Release Source

Latitude:

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Grama 8817 JV-P Tank Battery	Site Type: Production facility
Date Release Discovered: 6-15-2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
M	16	22S	34E	Lea

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

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls) <5	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 872	Volume Recovered (bbls) 870
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

A release occurred due to a corroded drain nipple on the bottom side of the stainless steel suction strainer. 870 bbls. of fluid was released inside of the lined secondary containment, 2 bbls. of fluid released on location outside of the secondary containment. The volume inside of the lined containment was determined by vac truck removal into an isolated tank and measured for the amount. A spill calculation formula was used to determine the amount outside of the containment, which is attached to the C-141.


State of New Mexico
Oil Conservation Division

Incident ID	nAPP2316732214
District RP	Hobbs
Facility ID	fDHR1912858946
Application ID	229059

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? The oil caught fire when it went through the flare. Fluid released exceeded 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, by Kelton Beaird by email to the bureau chief and district office.	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Kelton Beaird Title: Environmental Manager Signature:  Date: 6-16-2023 email: kbeaird@btaoil.com Telephone: 432-312-2203
<u>OCD Only</u> Received by: <u>Jocelyn Harimon</u> Date: <u>06/16/2023</u>

State of New Mexico
Oil Conservation Division

Page 3

Incident ID	nAPP2316732214
District RP	Hobbs
Facility ID	fDHR1912858946
Application ID	229059

<u>Saturated Soil Volume Calculations:</u>			<u>Free Liquid Volume Calculations:</u>		
Total Solid/Liquid Volume:	588 sq. ft.	<u>H2O</u> 25 cu. ft.	<u>OIL</u> cu. ft.	Total Free Liquid Volume:	364 sq. ft.
					<u>H2O</u> 7.583 cu. ft.
					<u>OIL</u> .000 cu. ft.
<u>Estimated Volumes Spilled</u>			<u>Estimated Production Volumes Lost</u>		
Liquid in Soil:	0.6 BBL	<u>H2O</u> 0.0 BBL	<u>OIL</u> 0.0 BBL	Estimated Production Spilled:	0.000000 BBL
Free Liquid:	1.4 BBL	0.0 BBL	0.0 BBL		0.000000 BBL
Totals:	1.961 BBL	0.000 BBL	0.000 BBL		
Total Liquid Spill Liquid:	1.961 BBL	0.000 BBL	0.000 BBL	<u>Estimated Surface Damage</u>	
				Surface Area:	588 sq. ft.
				Surface Area:	.0135 acre
<u>Recovered Volumes</u>			<u>Estimated Weights, and Volumes</u>		
Estimated oil recovered:	0.0 BBL	check - okay	Saturated Soil =	2,744 lbs	25 cu.ft.
Estimated water recovered:	0.0 BBL	check - okay	Total Liquid =	2 BBL	82.38 gallon
					1 cu.yds. 685 lbs

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

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

CONDITIONS

Action 246533

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 246533
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Operator did not meet 19.15.29.12D (1a) NMAC for its delineation points as it pertains to its final sampling toward closure. Forbearance given on 10/24/2023. Closure report approved and release resolved.	10/24/2023