



Remediation Summary and Deferral Request

**BTA Oil Producers, LLC
South Ridge Production Facility
Lea County, New Mexico
Unit Letter "E", Section 2, Township 23 South, Range 34 East
Latitude 32.332680 North, Longitude 103.445730 West
NMOCD Incident # nAPP2125728285**

Prepared For:

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

Prepared By:

Hungry Horse, LLC
4024 Plains Hwy
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October 2023

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Incident ID	nAPP2125728285
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

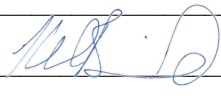
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, 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

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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: Kelton Beaird Title: Environmental Manager
Signature:  Date: 10-6-23
email: kbeaird@btaoil.com Telephone: 432-312-2203

OCD Only

Received by: Shelly Wells Date: 10/6/2023

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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: 10-6-23
email: kbeaird@btaoil.com Telephone: 432-312-2203

OCD Only

Received by: Shelly Wells Date: 10/6/2023

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

Signature: _____ Date: _____

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Closure

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

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

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

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

Printed Name: Kelton Beaird Title: Environmental Manager
Signature:  Date: 10-6-23
email: kbeaird@btaoil.com Telephone: 432-312-2203

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



HUNGRY HORSE, LLC

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

Background:

The site is located in Unit Letter E (SW/NW), Section 2, Township 23 South, Range 34 East, approximately eighteen 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 an earthen containment ; Latitude 32.332680 North, Longitude 103.445730 West. The Initial NMOCD Form C-141 indicated that on September 13, 2021 approximately 80 bbls of produced water was released to containment due to washed-out dump valve piping. A crew was dispatched to the site with a vacuum truck. The valve was repaired and 70 bbls of fluid were recovered from containment area. 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 not 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. Therefore, the site was delineated and further 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
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 July 17, 2023, Hungry Horse conducted an initial site assessment consisting of mapping and photographing the release area. On August 11, 2023, Hungry Horse personnel arrived on location to delineate the release area. During delineation, hand augered sample bores were advanced throughout the affected area in an effort to determine the vertical extent of contamination. 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 Hach Quantab® chloride test kit.

Based on field observations and field test data noted above and provided in Attachment V, thirty-six representative soil samples were selected for laboratory analysis. Delineation soil samples SP1 through SP6, HZ1 through HZ3, 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, with the exception of SP1 Surface, SP2 Surface, SP3 Surface, SP4 Surface, SP5 Surface and one-foot bgs, and SP6 Surface, which exhibited TPH and/or chloride concentrations in excess of NMOCD Closure Criteria.

On August 29, 2023, thirty-one composite confirmation soil samples were collected from the excavation floor and sidewalls, every 200 square feet and every 50 linear feet, respectively. Soil samples FL1 through FL19 and SW1 through SW12, 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, with the exception of FL1 at six inches, FL2 at six inches, SW1 at six inches, and SW5 – SW7 at six inches, which exhibited TPH and/or chloride concentrations in excess of NMOCD Closure Criteria.

On September 12, 2023, the areas characterized by sample locations FL1 and FL2 were excavated and resampled. Soil samples FL1B-1' and FL2B-1', 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 full extent of the release area could not be excavated as the release occurred within an earthen containment around and under tanks and process equipment. The areas within the containment area that were accessible to excavation were excavated via hand shovels, as the proximity of process equipment prevented use of mechanical equipment. During remediation activities approximately 108 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 VI. Site Photographs are provided as Attachment III.

Restoration, Reclamation, and Re-Vegetation:

Based upon laboratory analytical results from confirmation soil samples, the excavation was backfilled 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.

Deferral Request:

Remediation activities were conducted in accordance with applicable NMOCD Regulations. Soil affected above the NMOCD Closure Criteria has been excavated 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, BTA Oil Producers, LLC respectfully request deferral of the South Ridge Production Facility location, incident nAPP2125728285, until such time as the facility is taken out of production.

Limitations:

Hungry Horse, LLC, has prepared this *Remediation Summary and Deferral 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

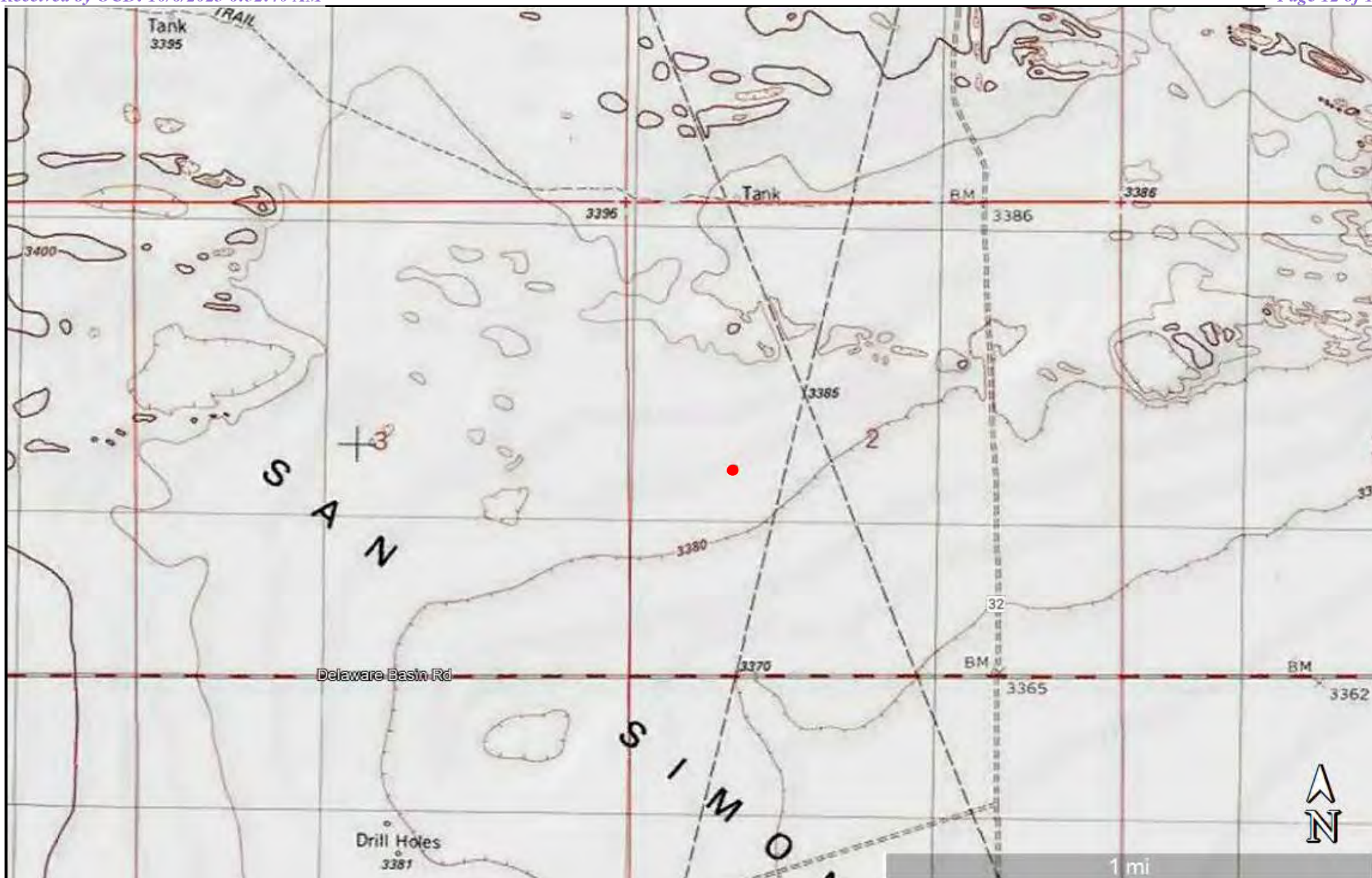
New Mexico Energy, Minerals and Natural Resources Department

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
 South Ridge Production Facility
 GPS: 32.33268, -103.44573
 Lea County

Legend:

- South Ridge Production Facility Location

Drafted: dd
 Checked: bw
 Date: 8/10/23



**Figure 2**

OSE POD Locations Map
BTA Oil Producers, LLC
South Ridge Production Facility
GPS: 32.33268, -103.44573
Lea County

Legend:

- South Ridge Production Facility Location
- Pending OSE Water Well

Drafted: dd
Checked: bw
Date: 8/10/23



**Figure 3**

USGS Well Locations Map
BTA Oil Producers, LLC
South Ridge Production Facility
GPS: 32.33268, -103.44573
Lea County

Legend:

- South Ridge Production Facility Location

Drafted: dd
Checked: bw
Date: 8/10/23



**Figure 4**

Delineation Sample Map
BTA Oil Producers, LLC
South Ridge Production Facility
GPS: 32.33268, -103.44573
Lea County

Legend:

- Release Area
 SP1 Delineation Sample Location

Drafted: dd
Checked: bw
Date: 8/10/23



**Figure 5**

Excavation Sample Map
 BTA Oil Producers, LLC
 South Ridge Production Facility
 GPS: 32.33268, -103.44573
 Lea County

Legend:

- Excavated Area
 FL1 Composite Confirmation Sample Location

Drafted: dd
 Checked: bw
 Date: 9/12/23



Tables

TABLE 1
Summary of Soil Sample Laboratory Analytical Results
BTA Oil Producers, LLC
South Ridge Production Facility
NMOCD Ref. #: nAPP2125728285

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)
SP1	8/11/23	Surf	Excavated	<0.050	<0.300	<10.0	40.2	40.2	<10.0	40.2	4,400
	8/11/23	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
	8/11/23	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
	8/11/23	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
	8/11/23	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SP2	8/11/23	Surf	Excavated	<0.050	<0.300	<10.0	68.6	68.6	14.8	83.4	976
	8/11/23	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
	8/11/23	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
	8/11/23	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
	8/11/23	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SP3	8/11/23	Surf	Excavated	<0.050	<0.300	<10.0	57.1	57.1	<10.0	57.1	2,040
	8/11/23	1	In-Situ	<0.050	<0.300	<10.0	39.9	<20.0	<10.0	39.9	128
	8/11/23	2	In-Situ	<0.050	<0.300	<10.0	12	<20.0	<10.0	<30.0	192
	8/11/23	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
	8/11/23	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SP4	8/11/23	Surf	Excavated	<0.050	<0.300	<10.0	1,420	1,420	494	1,914	7,360
	8/11/23	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	224
	8/11/23	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
	8/11/23	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
	8/11/23	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
SP5	8/11/23	Surf	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,250
	8/11/23	1	Excavated	<0.050	<0.300	<10.0	285	285.0	106	391	640
	8/11/23	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
	8/11/23	3	In-Situ	<0.050	<0.300	<10.0	29.9	29.9	10.3	40.2	256
	8/11/23	4	In-Situ	<0.050	<0.300	<10.0	11.7	<20.0	<10.0	<30.0	112
SP6	8/11/23	Surf	Excavated	<0.050	<0.300	<10.0	6,980	6,980	2,360	9,340	3,120
	8/11/23	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	432
	8/11/23	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
	8/11/23	3	In-Situ	<0.050	<0.300	<10.0	13.7	<20.0	<10.0	<30.0	384
	8/11/23	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	176
HZ1	8/11/23	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
	8/11/23	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
HZ2	8/11/23	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
	8/11/23	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
HZ3	8/11/23	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
	8/11/23	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
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

TABLE 1
Summary of Soil Sample Laboratory Analytical Results
BTA Oil Producers, LLC
South Ridge Production Facility
NMOCD Ref. #: nAPP2125728285

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)
FL1	8/29/23	0.5	Excavated	<0.050	<0.300	<10.0	345	345	104	449	144
FL1B	9/12/23	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16
FL2	8/29/23	0.5	Excavated	<0.050	<0.300	<10.0	307	307	103	410	160
FL2B	9/12/23	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL3	8/29/23	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL4	8/29/23	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL5	8/29/23	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL6	8/29/23	0.5	In-Situ	<0.050	<0.300	<10.0	43.4	43.4	12.5	55.9	80.0
FL7	8/29/23	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
FL8	8/29/23	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	272
FL9	8/29/23	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	336
FL10	8/29/23	0.5	In-Situ	<0.050	<0.300	<10.0	12.7	<20.0	<10.0	<30.0	192
FL11	8/29/23	0.5	In-Situ	<0.050	<0.300	<10.0	23.0	23.0	<10.0	<30.0	144
FL12	8/29/23	0.5	In-Situ	<0.050	<0.300	<10.0	17.2	<20.0	<10.0	<30.0	224
FL13	8/29/23	0.5	In-Situ	<0.050	<0.300	<10.0	12.0	<20.0	<10.0	<30.0	144
FL14	8/29/23	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL15	8/29/23	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL16	8/29/23	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL17	8/29/23	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL18	8/29/23	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	256
FL19	8/29/23	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW1	8/29/23	0.5	In-Situ	<0.050	<0.300	<10.0	404	404	204	608	32.0
SW2	8/29/23	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW3	8/29/23	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW4	8/29/23	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW5	8/29/23	0.5	In-Situ	<0.050	<0.300	<10.0	458	458	136	594	1,500
SW6	8/29/23	0.5	In-Situ	<0.050	<0.300	<10.0	321	321	94.7	415.7	1,580
SW7	8/29/23	0.5	In-Situ	<0.050	<0.300	<10.0	356	356	103	459	1,260
SW8	8/29/23	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SW9	8/29/23	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
SW10	8/29/23	0.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SW11	8/29/23	0.5	In-Situ	<0.050	<0.300	<10.0	11.7	<20.0	<10.0	<30.0	256
SW12	8/29/23	0.5	In-Situ	<0.050	<0.300	<10.0	12.1	<20.0	<10.0	<30.0	112
NMOCD Closure Criteria				10	50	-	-	N/A	-	100	600

NOTES:

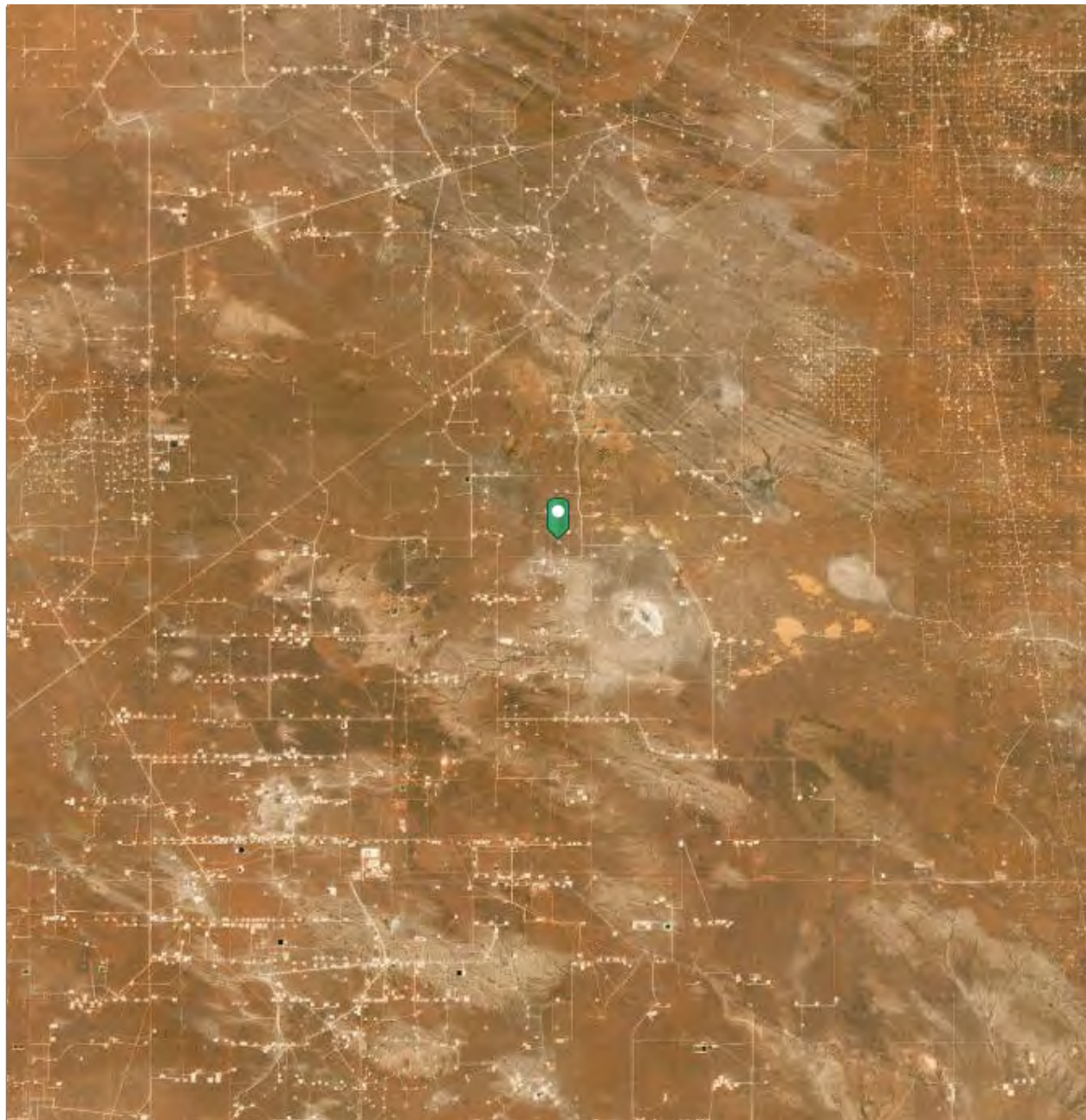
- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

Attachment I

Karst and Wetland Maps

South Ridge Production Facility



Karst springs

Spring with low flow discharge $\geq 2 \text{ m}^3/\text{s}$

Spring with low flow discharge $< 2 \text{ m}^3/\text{s}$

Submarine spring

Thermal spring

Water abstraction structure in karst aquifer

Cave systems

Border between exposed and non-exposed karstifiable rocks

Selected city, partly dependent on groundwater

Boundary of continuous permafrost

Continuous ice sheet

Karstifiable rocks (potential karst aquifer)

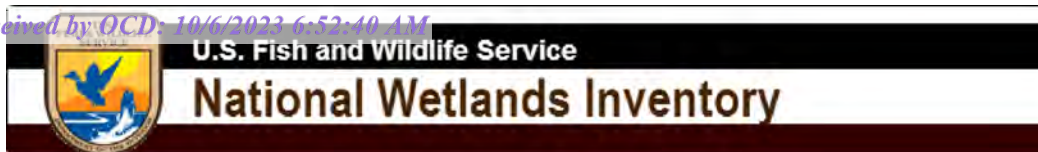
Continuous carbonate rocks

Discontinuous carbonate rocks

Continuous evaporite rocks

Discontinuous evaporite rocks

Mixed carbonate and evaporite rocks








South Ridge Production Facility






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.

Attachment II

NMOCD Correspondence

Daniel Dominguez

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Friday, September 8, 2023 8:57 AM
To: Daniel Dominguez
Cc: Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD
Subject: RE: [EXTERNAL] Closure Samples

Hi 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: Friday, September 8, 2023 5:45 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Closure Samples

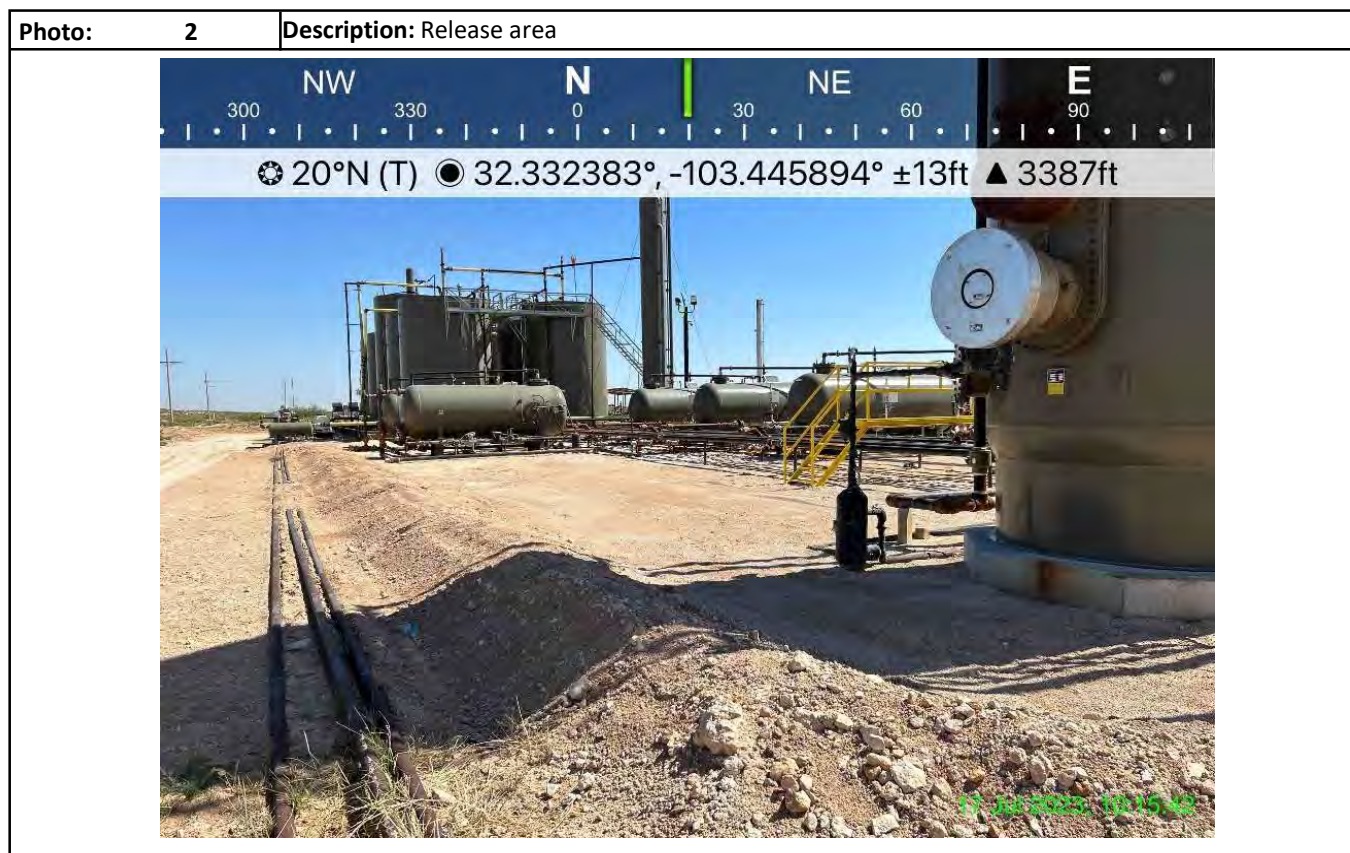
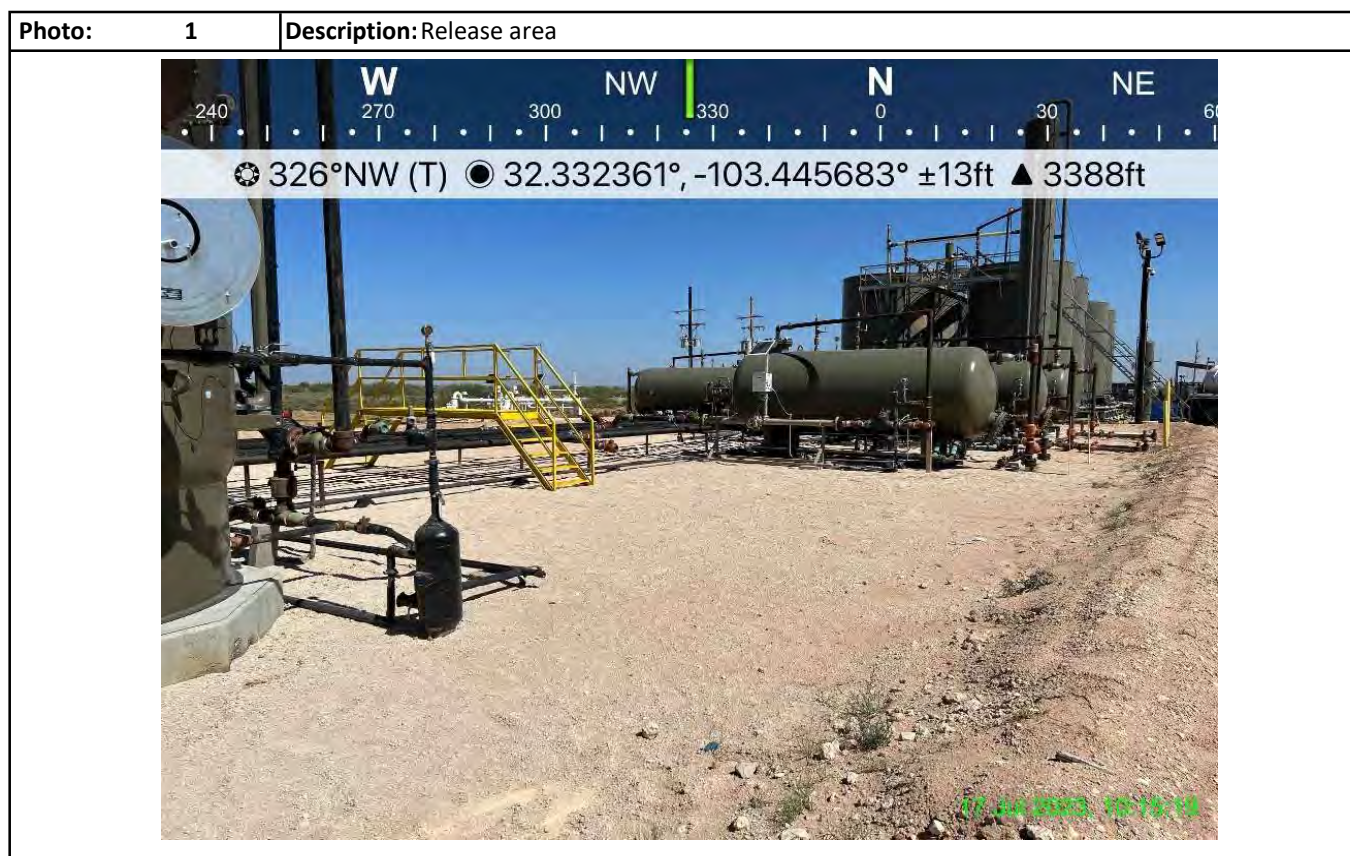
CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

We will be collecting additional closure samples at the South Ridge Production Facility (nAPP2125728285) on Tuesday September 12, 2023 at 11 am.
This is our 2 day notice.

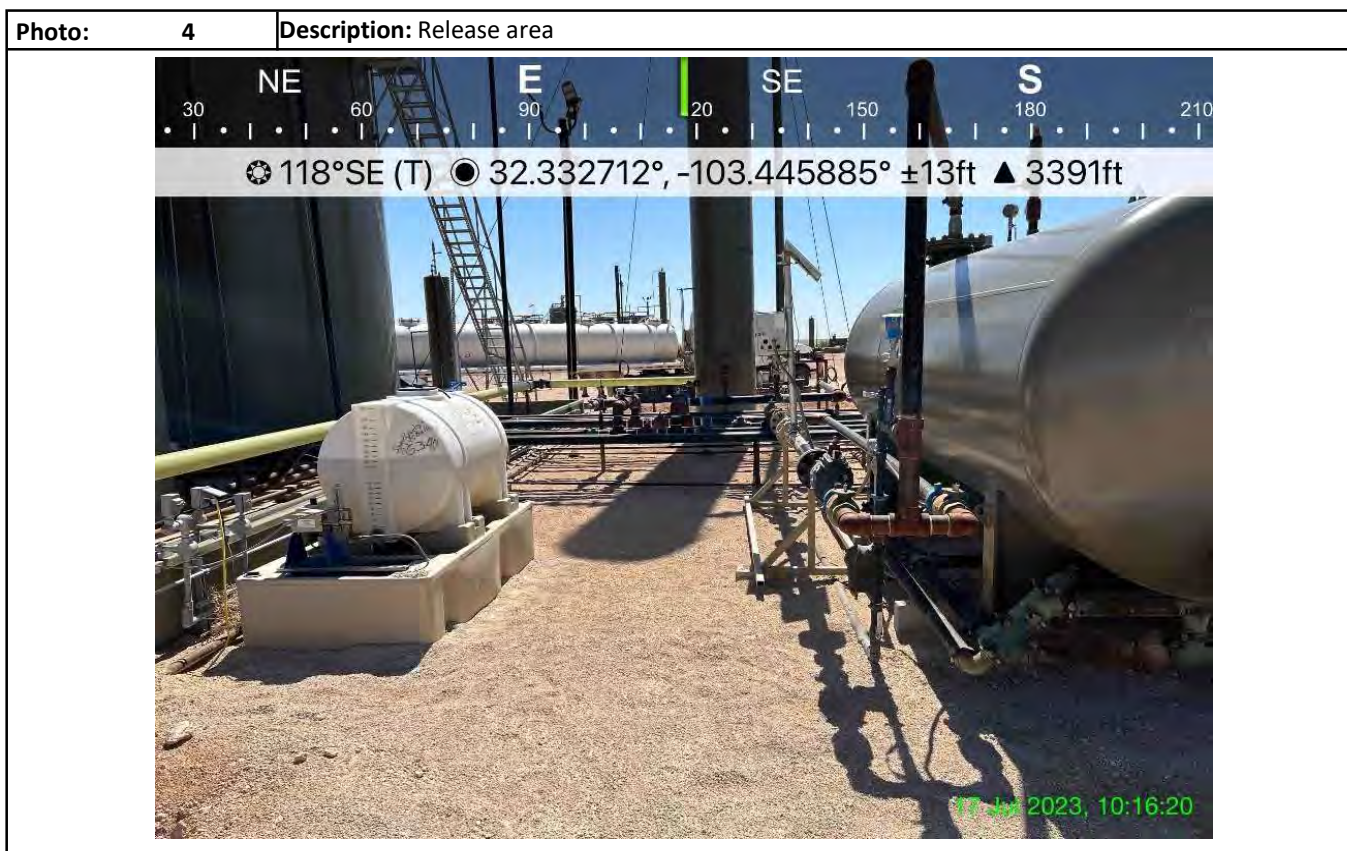
Daniel Dominguez
Environmental Manager
Hungry Horse, LLC
(m) 575-408-3134
ddominguez@hungry-horse.com

Attachment III Site Photographs

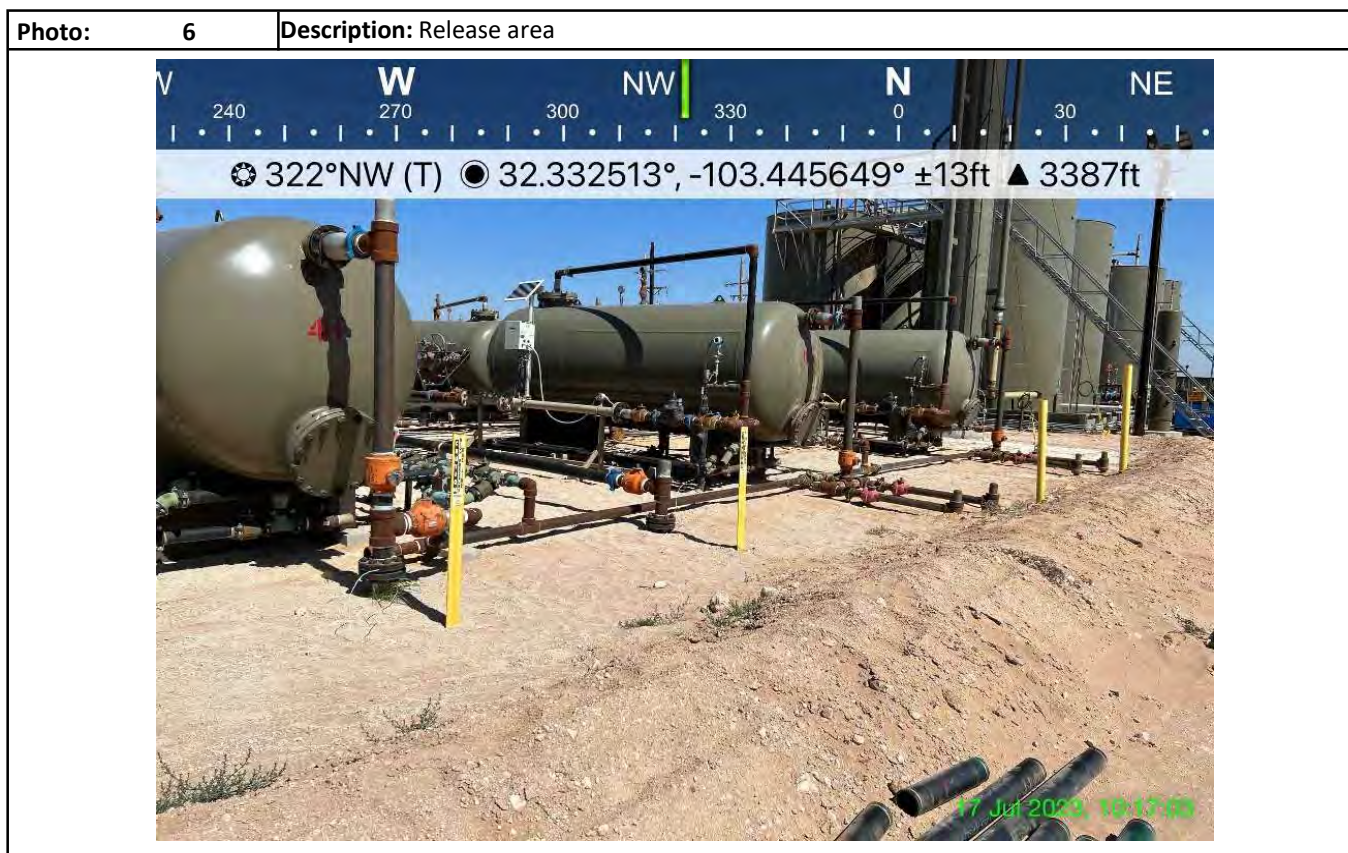
Photographs



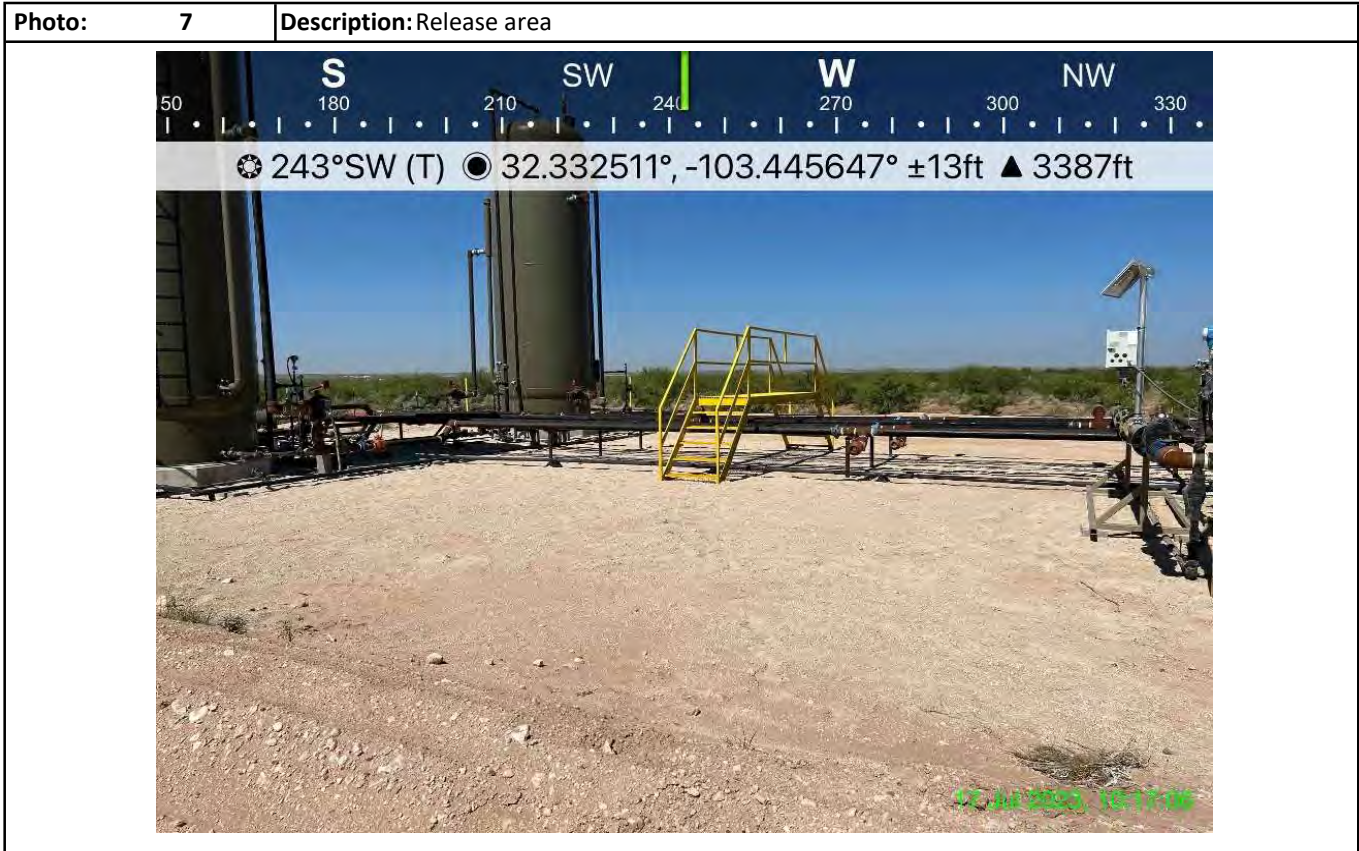
Photographs



Photographs



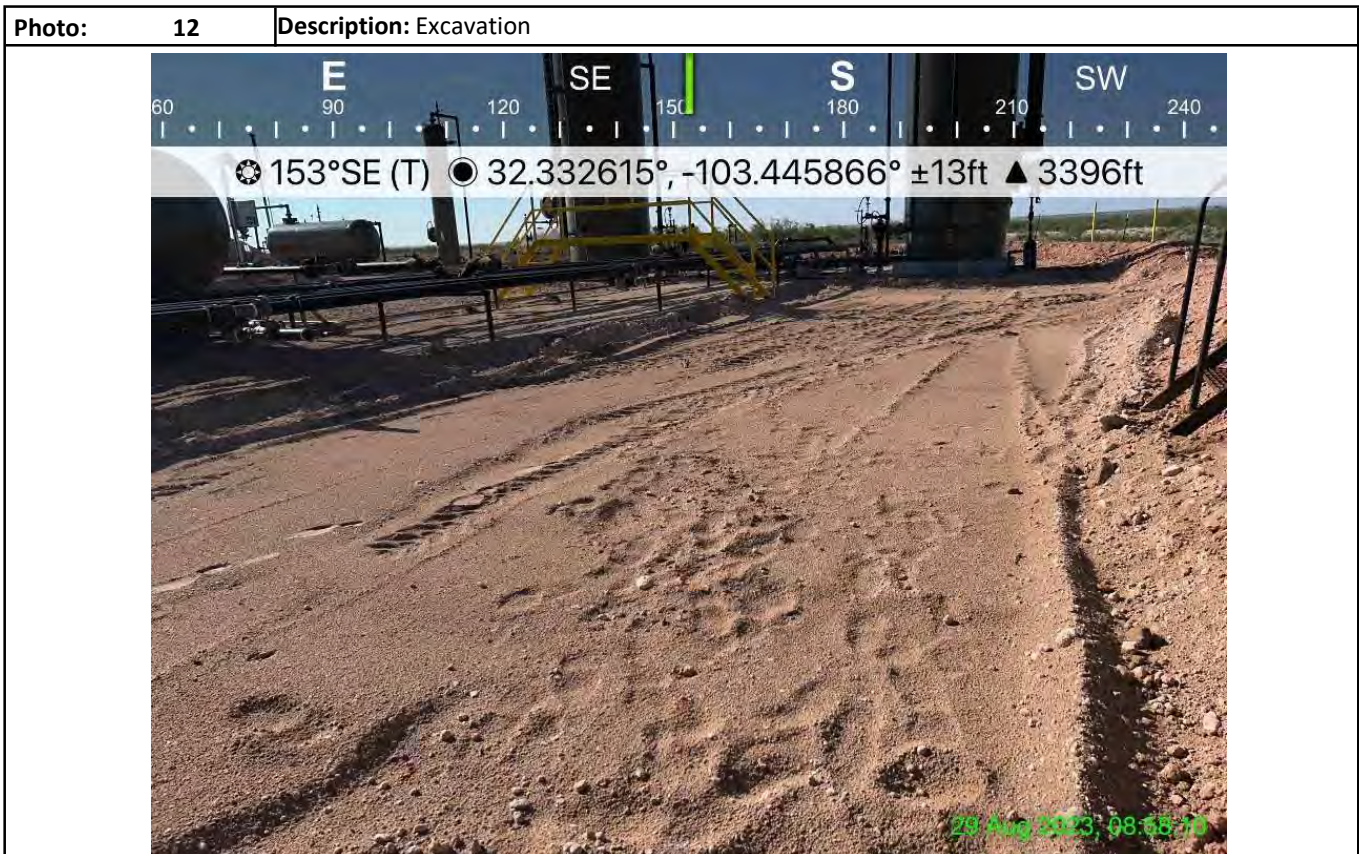
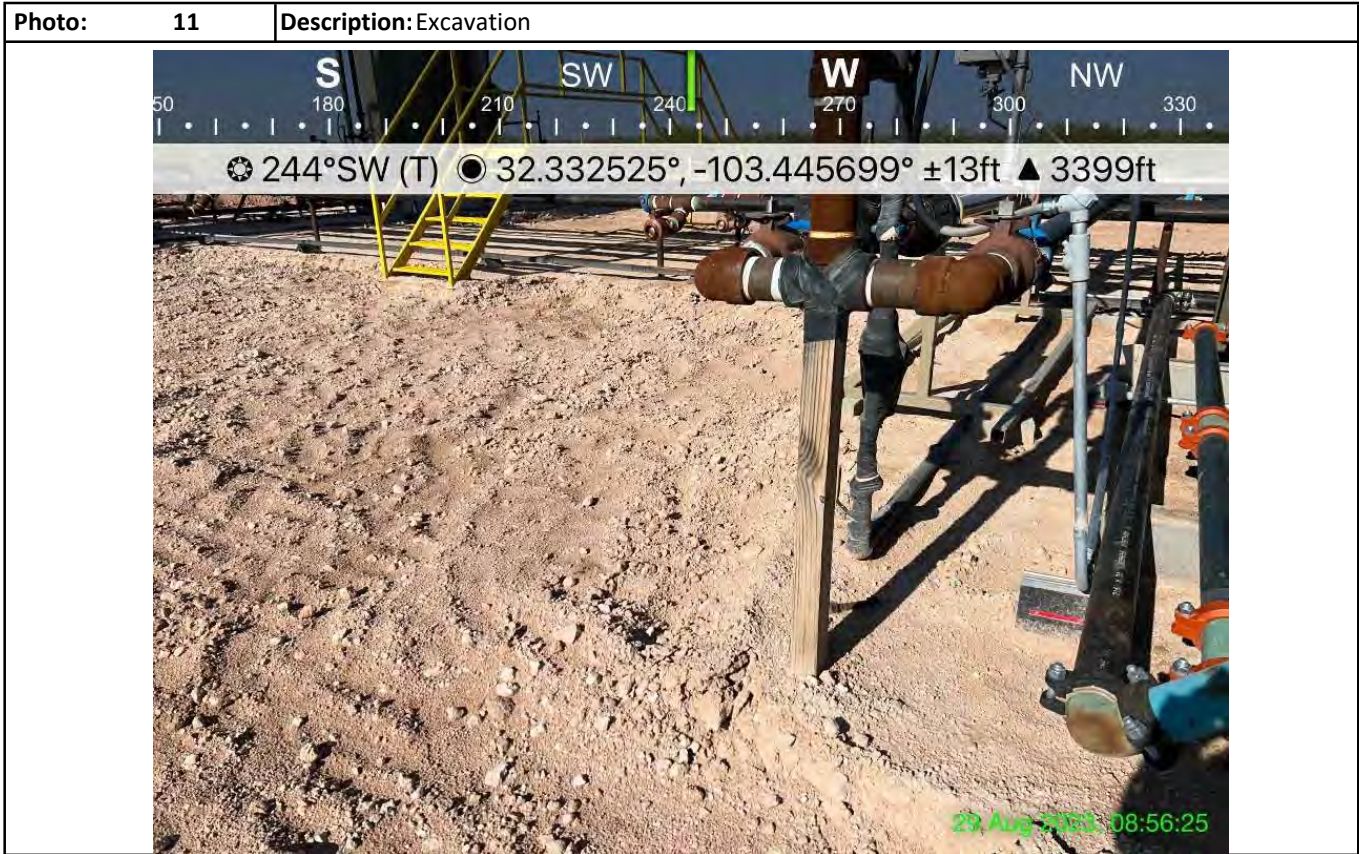
Photographs



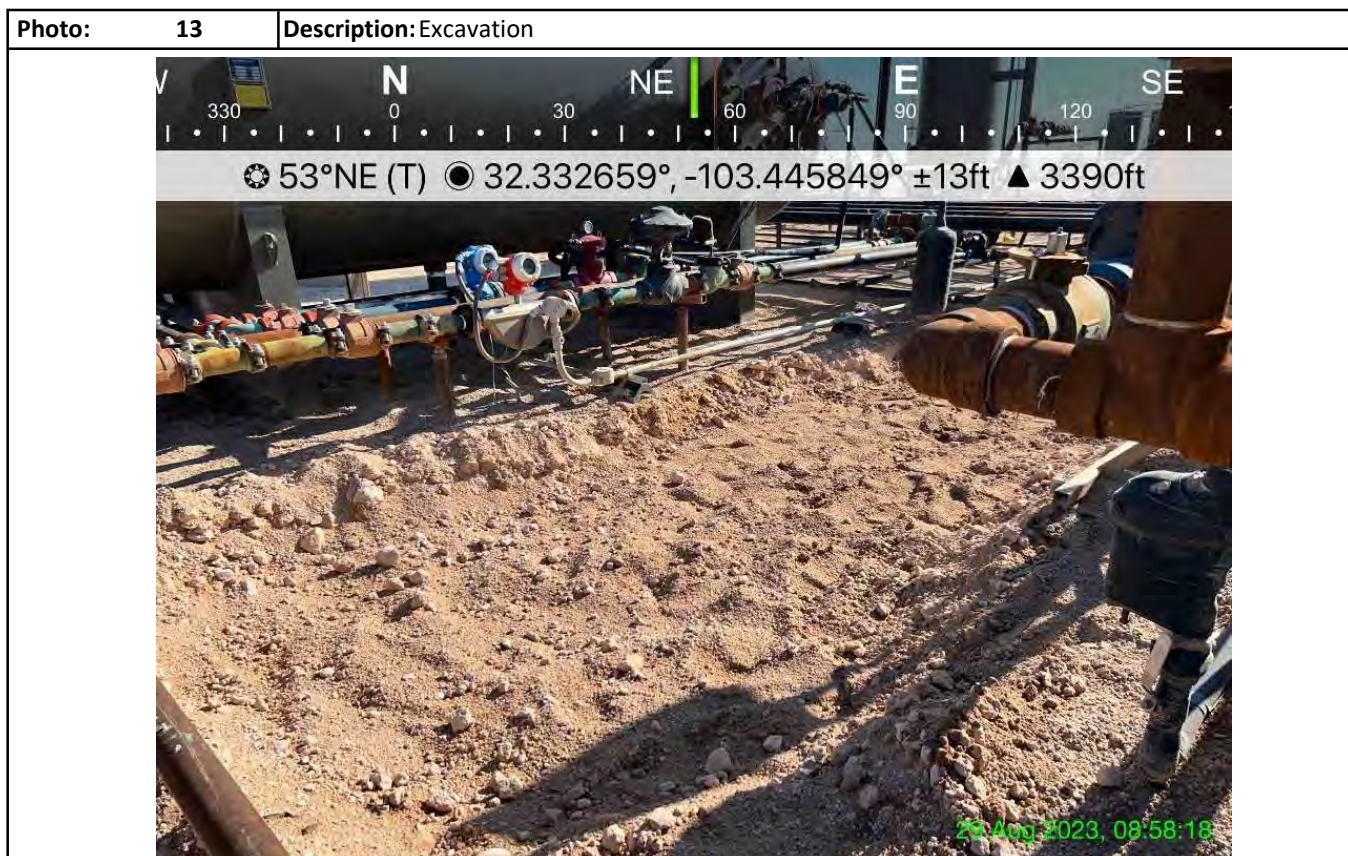
Photographs



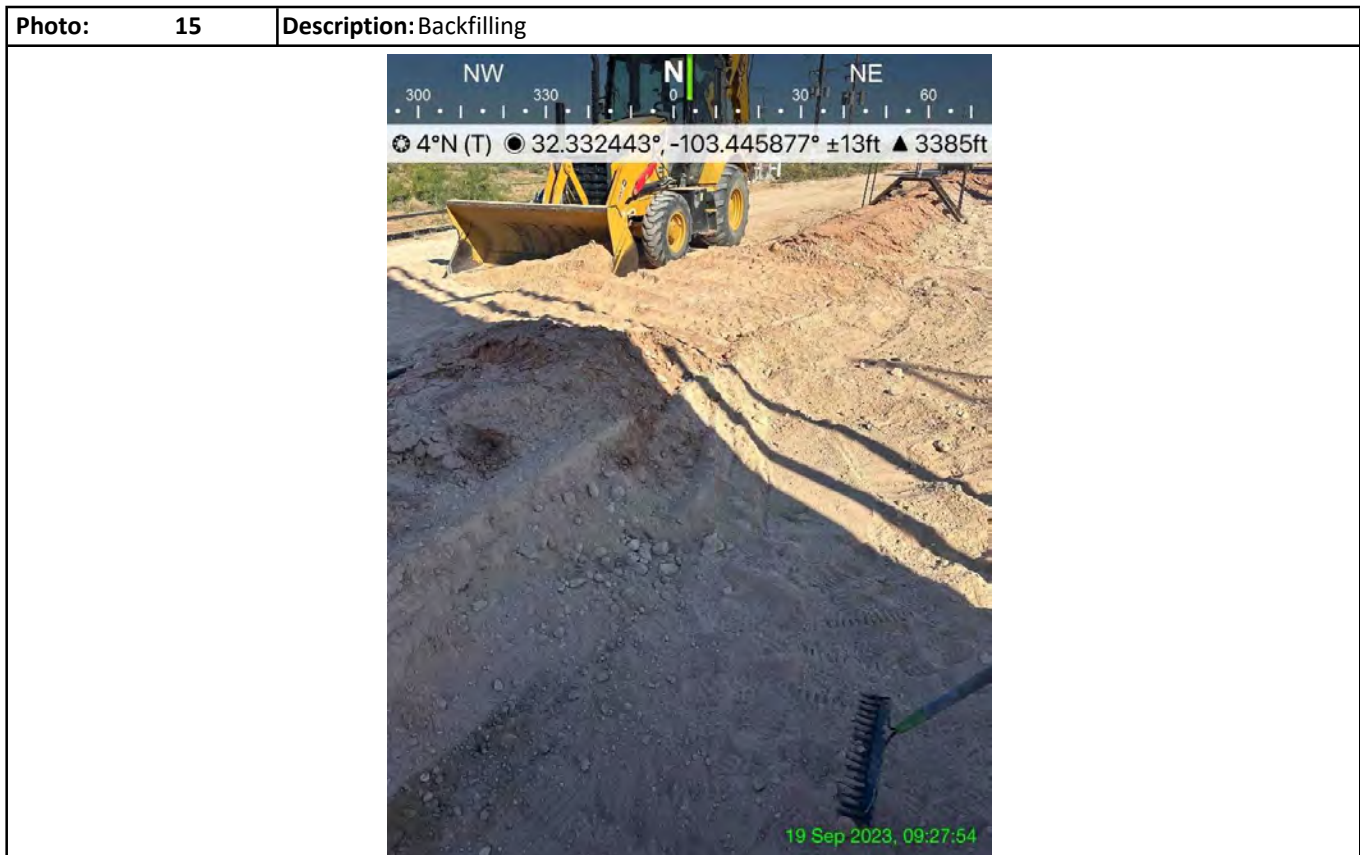
Photographs



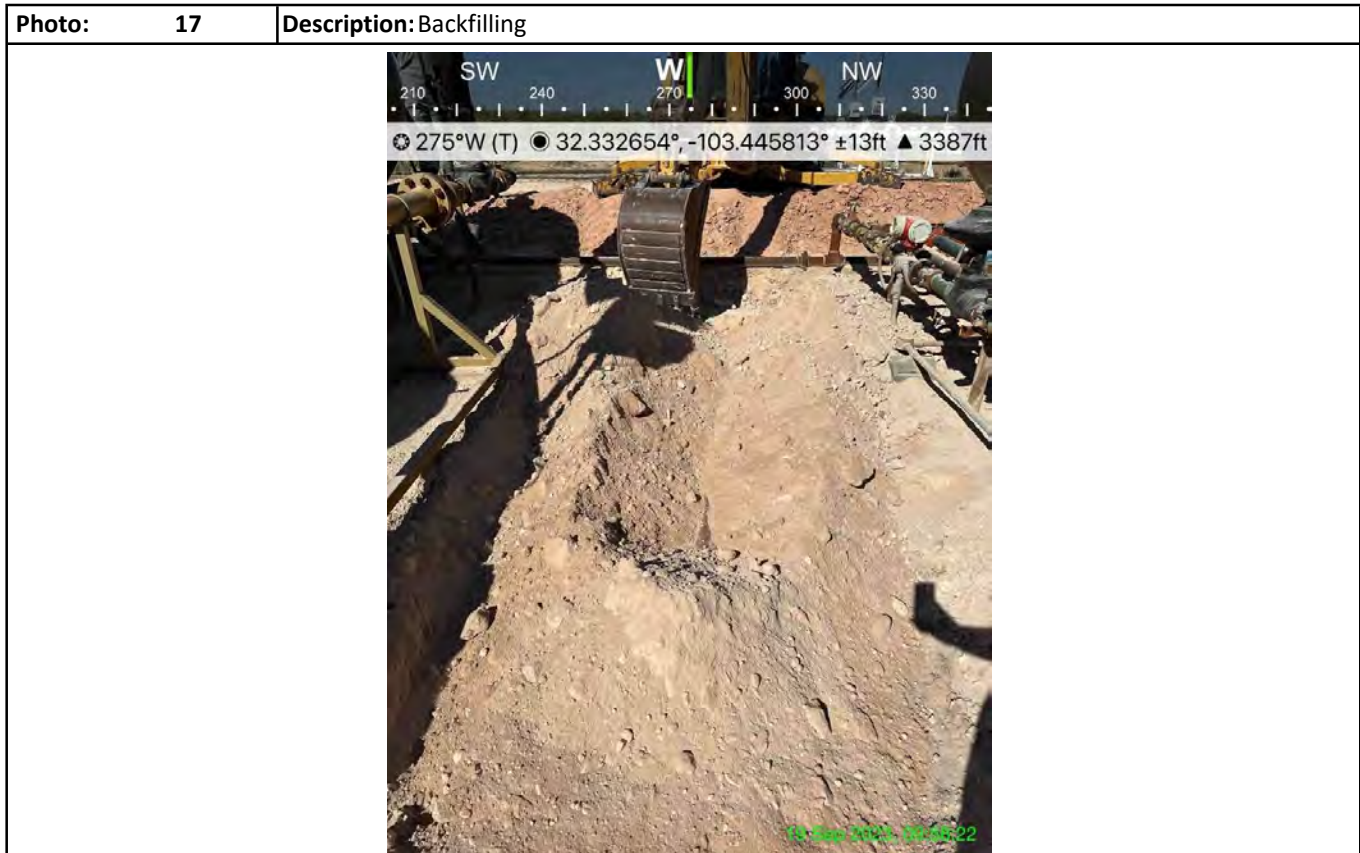
Photographs



Photographs



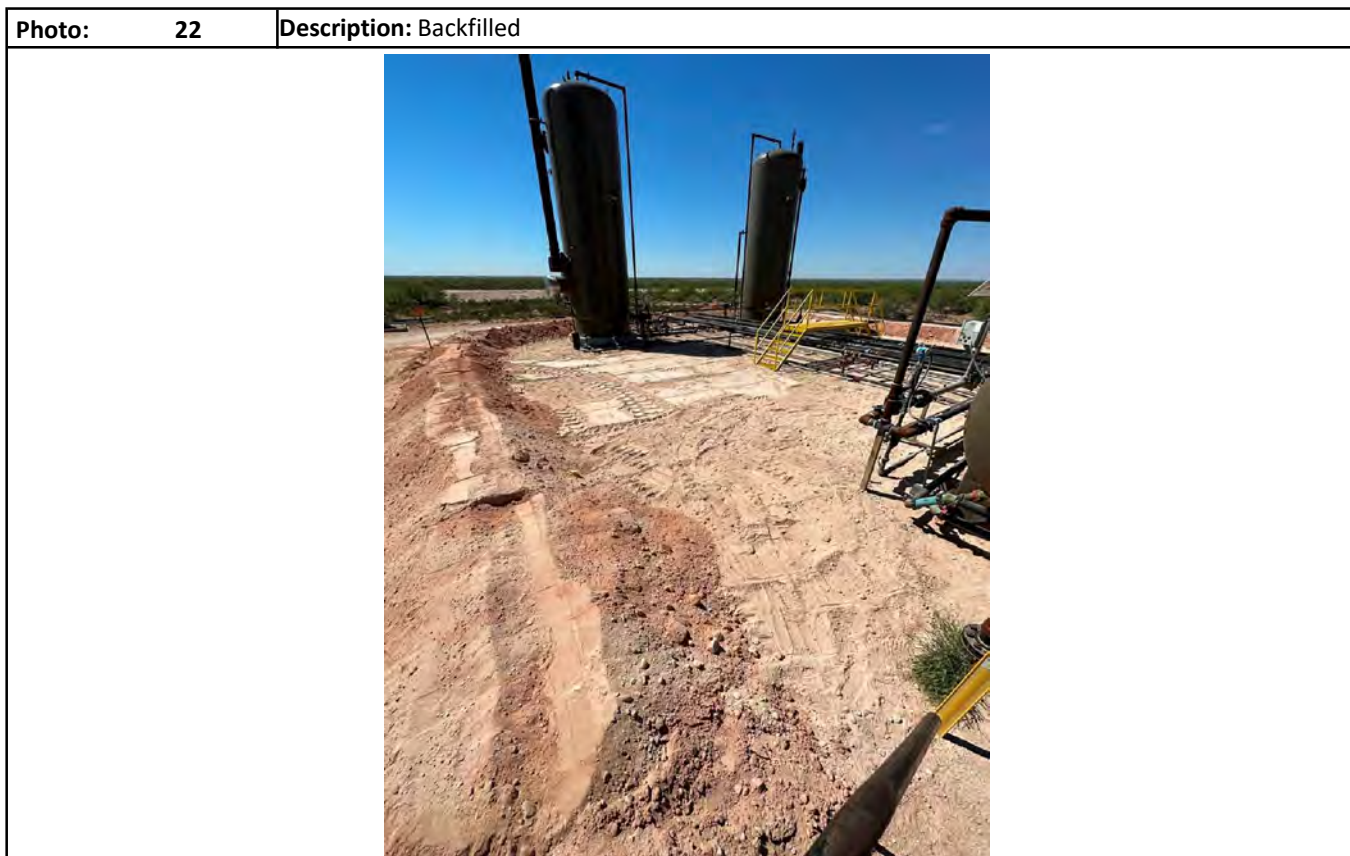
Photographs



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): 646284.29 Northing (Y): 3578373 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.

8/21/23 6:36 AM

WELLS WITH WELL LOG INFORMATION



New Mexico Office of the State Engineer

Water Right Summary




get image list

WR File Number: CP 01074 **Subbasin:** CP **Cross Reference:** -
Primary Purpose: COM COMMERCIAL
Primary Status: PMT PERMIT
Total Acres: 0 **Subfile:** - **Header:** -
Total Diversion: 80 **Cause/Case:** -
Owner: LIMESTONE BASIN PROPERTIES
Contact: JOHN LANGDON

Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
750850	SUPPL	2020-08-21	WDP	WDR	CP 01074	T	0	0	
635563	COWNF	2018-12-04	CHG	PRC	CP 01074	T	0	0	
600255	APPRO	2014-01-28	PMT	ET	CP 01074	T	0	80	80
499503	72121	2012-03-05	EXP	EXP	CP 01074	T		3	

Current Points of Diversion

POD Number	Well Tag	Source	Q					(NAD83 UTM in meters)		Other Location Desc
			64	Q16	Q4	Sec	Tws	Rng	X	
CP 01074 POD1		Shallow	4	4	35	22S	34E	647389	3579313	

Priority Summary

Priority	Status	Acres	Diversion	Pod Number	
05/15/2012	PMT	0	80	CP 01074 POD1	Shallow

Place of Use

Q	Q	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
256	64							
Q16	Q4	0	80	80	COM	05/15/2012	PMT	SEE IMAGE FOR PLACE OF USE

Source

Acres	Diversion	CU	Use	Priority	Source Description
0	80	80	COM	05/15/2012	GW

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.

9/26/23 9:13 AM

WATER RIGHT
SUMMARY



New Mexico Office of the State Engineer

Water Right Summary



WR File Number: CP 01840 **Subbasin:** CP **Cross Reference:** -
Primary Purpose: COM COMMERCIAL
Primary Status: PMT PERMIT
Total Acres: 0 **Subfile:** - **Header:** -
Total Diversion: 150 **Cause/Case:** -
Owner: LIMESTONE BASIN PROP RANCH LLC
Contact: JOHN LANGDON

Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
672389	APPRO	2022-12-20	PMT	APR	CP 01840	T	0	150	150

Current Points of Diversion

POD Number	Well Tag	Source	Q				(NAD83 UTM in meters)		Other Location Desc
			64	Q16	Q4	Sec	Tws	Rng	
CP 01840 POD1	211FB		1	1	1	11	23S	34E	646007 3577597 "SECTION 11 NW WELL"

Priority Summary

Priority	Status	Acres	Diversion	Pod Number
05/01/2020	PMT	150		CP 01840 POD1

Place of Use

Q		Q		Q16	Q4	Sec	Tws	Rng	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
256	64	1	1												
		1	1	1	11	23S	34E			150	150	COM	05/01/2020	PMT	

Source

Acres	Diversion	CU	Use	Priority	Source Description
0	150	150	COM	05/01/2020	GW

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.

9/26/23 9:11 AM

WATER RIGHT SUMMARY

Attachment V

Field Data

Hungry Horse, LLC

Sample Log

Date: 8/11/23

Project: South Ridge Production Facility

Latitude: 32.33268

Longitude: -103.44573

Sampler: Jerry Heidelberg

Sample ID	Depth	PID/Odor	Chloride	GPS
HZ1	Surf		1.6@35X4=140	
HZ1	1'		1.4@29X4=116	
HZ2	Surf		1.2@>100	
HZ2	1'		1.4@29X4=116	
HZ3	Surf		1.8@41X4=164	
HZ3	1'		1.0@>100	
SP1	Surf		7.0H@2531X4=10,124	
SP1	1'		6.4@370X4=1,480	
SP1	2'		5.4@262X4=1,048	
SP1	3'		5.4@262X4=1,048	
SP1	4'		5.0@225X4=900	
SP2	Surf		4.8@208X4=832	
SP2	1'		3.4@111X4=444	
SP2	2'		3.8@135X4=540	
SP2	3'		1.2@>100	
SP2	4'		1.8@41X4=164	
SP3	Surf		7.4@520X4=2,080	
SP3	1'		5.4@262X4=1,048	
SP3	2'		5.0@225X4=900	
SP3	3'		6.2@346X4=1,384	
SP3	4'		6.2@346X4=1,384	
SP4	Surf		7.8H@353X4=1,142	
SP4	1'		5.8@302X4=1,208	
SP4	2'		3.8@135X4=540	
SP4	3'		1.6@35X4=140	
SP4	4'		2.8@79X4=316	
SP5	Surf		6.2@346X4=1,384	
SP5	1'		7.0@454X4=1,816	
SP5	2'		4.8@208X4=832	
SP5	3'		5.8@302X4=1,208	
SP5	4'		7.8@353X4=1,142	
SP6	Surf		7.8@353X4=1,142	
SP6	1'		5.2@243X4=972	
SP6	2'		4.6@192X4=768	
SP6	3'		4.8@208X4=832	
SP6	4'		4.0@148X4=592	

Sample Point = SP1 @ ## etc

Horizontal = HZ1 etc

Test Trench = TT1 @ ##

Floor = FL1 etc

Refusal = SP1 @ 4'-R

Resamples = SP1b @ 5' or SW #1b

Sidewall = SW1 etc

GPS Sample Points, Center of Comp Areas

Stockpile = Stockpile #1

Attachment VI

Laboratory Analytical Reports



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

August 17, 2023

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: SOUTH RIDGE PRODUCTION FACILITY

Enclosed are the results of analyses for samples received by the laboratory on 08/11/23 15:33.

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:	08/11/2023	Sampling Date:	08/11/2023
Reported:	08/17/2023	Sampling Type:	Soil
Project Name:	SOUTH RIDGE PRODUCTION FACILITY	Sampling Condition:	Cool & Intact
Project Number:	BTA	Sample Received By:	Tamara Oldaker
Project Location:	UL / E SEC 2 T23S - R34E		

Sample ID: SP 1 - SURF (H234356-01)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2023	ND	2.18	109	2.00	0.688	
Toluene*	<0.050	0.050	08/15/2023	ND	2.13	106	2.00	1.73	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	2.03	101	2.00	0.173	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	6.12	102	6.00	0.533	
Total BTEX	<0.300	0.300	08/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	08/15/2023	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2023	ND	176	87.8	200	0.864	
DRO >C10-C28*	40.2	10.0	08/14/2023	ND	177	88.6	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	08/14/2023	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 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: 08/11/2023
 Reported: 08/17/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 - 1' (H234356-02)

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	08/15/2023	ND	2.18	109	2.00	0.688		
Toluene*	<0.050	0.050	08/15/2023	ND	2.13	106	2.00	1.73		
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	2.03	101	2.00	0.173		
Total Xylenes*	<0.150	0.150	08/15/2023	ND	6.12	102	6.00	0.533		
Total BTX	<0.300	0.300	08/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 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	08/15/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/14/2023	ND	176	87.8	200	0.864	
DRO >C10-C28*	<10.0	10.0	08/14/2023	ND	177	88.6	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	08/14/2023	ND					

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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: 08/11/2023
 Reported: 08/17/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 - 2' (H234356-03)

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	08/15/2023	ND	2.18	109	2.00	0.688		
Toluene*	<0.050	0.050	08/15/2023	ND	2.13	106	2.00	1.73		
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	2.03	101	2.00	0.173		
Total Xylenes*	<0.150	0.150	08/15/2023	ND	6.12	102	6.00	0.533		
Total BTX	<0.300	0.300	08/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/15/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	176	87.8	200	0.864	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	177	88.6	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/11/2023
 Reported: 08/17/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 - 3' (H234356-04)

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	08/15/2023	ND	2.18	109	2.00	0.688	
Toluene*	<0.050	0.050	08/15/2023	ND	2.13	106	2.00	1.73	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	2.03	101	2.00	0.173	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	6.12	102	6.00	0.533	
Total BTX	<0.300	0.300	08/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 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	16.0	16.0	08/15/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	176	87.8	200	0.864	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	177	88.6	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane 81.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 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: 08/11/2023
 Reported: 08/17/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 - 4' (H234356-05)

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	08/15/2023	ND	2.18	109	2.00	0.688		
Toluene*	<0.050	0.050	08/15/2023	ND	2.13	106	2.00	1.73		
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	2.03	101	2.00	0.173		
Total Xylenes*	<0.150	0.150	08/15/2023	ND	6.12	102	6.00	0.533		
Total BTX	<0.300	0.300	08/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/15/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	176	87.8	200	0.864	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	177	88.6	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 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: 08/11/2023
 Reported: 08/17/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 - SURF (H234356-06)

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	08/15/2023	ND	2.18	109	2.00	0.688		
Toluene*	<0.050	0.050	08/15/2023	ND	2.13	106	2.00	1.73		
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	2.03	101	2.00	0.173		
Total Xylenes*	<0.150	0.150	08/15/2023	ND	6.12	102	6.00	0.533		
Total BTEx	<0.300	0.300	08/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 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	976	16.0	08/15/2023	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	08/15/2023	ND	176	87.8	200	0.864	
DRO >C10-C28*	68.6	10.0	08/15/2023	ND	177	88.6	200	1.37	
EXT DRO >C28-C36	14.8	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane 72.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/11/2023
 Reported: 08/17/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 - 1' (H234356-07)

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	08/15/2023	ND	2.18	109	2.00	0.688	
Toluene*	<0.050	0.050	08/15/2023	ND	2.13	106	2.00	1.73	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	2.03	101	2.00	0.173	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	6.12	102	6.00	0.533	
Total BTX	<0.300	0.300	08/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	08/15/2023	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	08/15/2023	ND	176	87.8	200	0.864	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	177	88.6	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

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

Received: 08/11/2023
 Reported: 08/17/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 - 2' (H234356-08)

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	08/15/2023	ND	2.18	109	2.00	0.688	
Toluene*	<0.050	0.050	08/15/2023	ND	2.13	106	2.00	1.73	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	2.03	101	2.00	0.173	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	6.12	102	6.00	0.533	
Total BTX	<0.300	0.300	08/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.3 % 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	08/15/2023	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	08/15/2023	ND	176	87.8	200	0.864	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	177	88.6	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.0 % 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: 08/11/2023
 Reported: 08/17/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 - 3' (H234356-09)

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	08/15/2023	ND	2.04	102	2.00	0.817		
Toluene*	<0.050	0.050	08/15/2023	ND	1.91	95.6	2.00	0.167		
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	1.84	92.2	2.00	1.89		
Total Xylenes*	<0.150	0.150	08/15/2023	ND	5.39	89.8	6.00	1.76		
Total BTEx	<0.300	0.300	08/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	08/15/2023	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	08/15/2023	ND	176	87.8	200	0.864	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	177	88.6	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane 90.3 % 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: 08/11/2023
 Reported: 08/17/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 - 4' (H234356-10)

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	08/15/2023	ND	2.04	102	2.00	0.817	
Toluene*	<0.050	0.050	08/15/2023	ND	1.91	95.6	2.00	0.167	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	1.84	92.2	2.00	1.89	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	5.39	89.8	6.00	1.76	
Total BTEX	<0.300	0.300	08/15/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/15/2023	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	08/15/2023	ND	176	87.8	200	0.864	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	177	88.6	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane 89.1 % 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
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 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 08/11/2023
 Reported: 08/17/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 - SURF (H234356-11)

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	08/15/2023	ND	2.04	102	2.00	0.817		
Toluene*	<0.050	0.050	08/15/2023	ND	1.91	95.6	2.00	0.167		
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	1.84	92.2	2.00	1.89		
Total Xylenes*	<0.150	0.150	08/15/2023	ND	5.39	89.8	6.00	1.76		
Total BTEX	<0.300	0.300	08/15/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2040	16.0	08/15/2023	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	08/15/2023	ND	176	87.8	200	0.864	
DRO >C10-C28*	57.1	10.0	08/15/2023	ND	177	88.6	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.8 % 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: 08/11/2023
 Reported: 08/17/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 - 1' (H234356-12)

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	08/15/2023	ND	2.04	102	2.00	0.817		
Toluene*	<0.050	0.050	08/15/2023	ND	1.91	95.6	2.00	0.167		
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	1.84	92.2	2.00	1.89		
Total Xylenes*	<0.150	0.150	08/15/2023	ND	5.39	89.8	6.00	1.76		
Total BTEX	<0.300	0.300	08/15/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	08/15/2023	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	08/15/2023	ND	176	87.8	200	0.864	
DRO >C10-C28*	39.9	10.0	08/15/2023	ND	177	88.6	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane 88.7 % 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
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 Fax To: (505) 391-4585

Received: 08/11/2023
 Reported: 08/17/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 - 2' (H234356-13)

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	08/15/2023	ND	2.04	102	2.00	0.817	
Toluene*	<0.050	0.050	08/15/2023	ND	1.91	95.6	2.00	0.167	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	1.84	92.2	2.00	1.89	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	5.39	89.8	6.00	1.76	
Total BTX	<0.300	0.300	08/15/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	08/15/2023	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	08/15/2023	ND	176	87.8	200	0.864	
DRO >C10-C28*	12.0	10.0	08/15/2023	ND	177	88.6	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/11/2023
 Reported: 08/17/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 - 3' (H234356-14)

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	08/15/2023	ND	2.04	102	2.00	0.817		
Toluene*	<0.050	0.050	08/15/2023	ND	1.91	95.6	2.00	0.167		
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	1.84	92.2	2.00	1.89		
Total Xylenes*	<0.150	0.150	08/15/2023	ND	5.39	89.8	6.00	1.76		
Total BTEX	<0.300	0.300	08/15/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	08/15/2023	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	08/15/2023	ND	176	87.8	200	0.864	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	177	88.6	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane 88.6 % 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
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Received: 08/11/2023
 Reported: 08/17/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 - 4' (H234356-15)

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	08/15/2023	ND	2.04	102	2.00	0.817		
Toluene*	<0.050	0.050	08/15/2023	ND	1.91	95.6	2.00	0.167		
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	1.84	92.2	2.00	1.89		
Total Xylenes*	<0.150	0.150	08/15/2023	ND	5.39	89.8	6.00	1.76		
Total BTEX	<0.300	0.300	08/15/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	08/15/2023	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	08/15/2023	ND	176	87.8	200	0.864	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	177	88.6	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane 89.2 % 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
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Received: 08/11/2023
 Reported: 08/17/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 4 - SURF (H234356-16)

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	08/15/2023	ND	2.04	102	2.00	0.817	
Toluene*	<0.050	0.050	08/15/2023	ND	1.91	95.6	2.00	0.167	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	1.84	92.2	2.00	1.89	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	5.39	89.8	6.00	1.76	
Total BTX	<0.300	0.300	08/15/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7360	16.0	08/15/2023	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	08/15/2023	ND	176	87.8	200	0.864	
DRO >C10-C28*	1420	10.0	08/15/2023	ND	177	88.6	200	1.37	
EXT DRO >C28-C36	494	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/11/2023
 Reported: 08/17/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 4 - 1' (H234356-17)

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	08/15/2023	ND	2.04	102	2.00	0.817		
Toluene*	<0.050	0.050	08/15/2023	ND	1.91	95.6	2.00	0.167		
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	1.84	92.2	2.00	1.89		
Total Xylenes*	<0.150	0.150	08/15/2023	ND	5.39	89.8	6.00	1.76		
Total BTEX	<0.300	0.300	08/15/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	08/15/2023	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	08/14/2023	ND	164	82.1	200	0.254	
DRO >C10-C28*	<10.0	10.0	08/14/2023	ND	153	76.5	200	6.80	
EXT DRO >C28-C36	<10.0	10.0	08/14/2023	ND					

Surrogate: 1-Chlorooctane 99.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 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
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 Fax To: (505) 391-4585

Received: 08/11/2023
 Reported: 08/17/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 4 - 2' (H234356-18)

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	08/15/2023	ND	2.04	102	2.00	0.817		
Toluene*	<0.050	0.050	08/15/2023	ND	1.91	95.6	2.00	0.167		
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	1.84	92.2	2.00	1.89		
Total Xylenes*	<0.150	0.150	08/15/2023	ND	5.39	89.8	6.00	1.76		
Total BTEX	<0.300	0.300	08/15/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/15/2023	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	08/14/2023	ND	164	82.1	200	0.254	
DRO >C10-C28*	<10.0	10.0	08/14/2023	ND	153	76.5	200	6.80	
EXT DRO >C28-C36	<10.0	10.0	08/14/2023	ND					

Surrogate: 1-Chlorooctane 99.0 % 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
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 Fax To: (505) 391-4585

Received: 08/11/2023
 Reported: 08/17/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 4 - 3' (H234356-19)

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	08/15/2023	ND	2.04	102	2.00	0.817		
Toluene*	<0.050	0.050	08/15/2023	ND	1.91	95.6	2.00	0.167		
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	1.84	92.2	2.00	1.89		
Total Xylenes*	<0.150	0.150	08/15/2023	ND	5.39	89.8	6.00	1.76		
Total BTEX	<0.300	0.300	08/15/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/15/2023	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	08/14/2023	ND	164	82.1	200	0.254	
DRO >C10-C28*	<10.0	10.0	08/14/2023	ND	153	76.5	200	6.80	
EXT DRO >C28-C36	<10.0	10.0	08/14/2023	ND					

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

Hungry Horse Environmental
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Received: 08/11/2023
 Reported: 08/17/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 4 - 4' (H234356-20)

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	08/15/2023	ND	2.04	102	2.00	0.817	
Toluene*	<0.050	0.050	08/15/2023	ND	1.91	95.6	2.00	0.167	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	1.84	92.2	2.00	1.89	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	5.39	89.8	6.00	1.76	
Total BTEX	<0.300	0.300	08/15/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	08/15/2023	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	08/14/2023	ND	164	82.1	200	0.254	
DRO >C10-C28*	<10.0	10.0	08/14/2023	ND	153	76.5	200	6.80	
EXT DRO >C28-C36	<10.0	10.0	08/14/2023	ND					

Surrogate: 1-Chlorooctane 97.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/11/2023
 Reported: 08/17/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 5 - SURF (H234356-21)

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	08/15/2023	ND	2.04	102	2.00	0.817	
Toluene*	<0.050	0.050	08/15/2023	ND	1.91	95.6	2.00	0.167	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	1.84	92.2	2.00	1.89	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	5.39	89.8	6.00	1.76	
Total BTEX	<0.300	0.300	08/15/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1250	16.0	08/15/2023	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	08/14/2023	ND	164	82.1	200	0.254	
DRO >C10-C28*	<10.0	10.0	08/14/2023	ND	153	76.5	200	6.80	
EXT DRO >C28-C36	<10.0	10.0	08/14/2023	ND					

Surrogate: 1-Chlorooctane 80.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.7 % 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: 08/11/2023
 Reported: 08/17/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 5 - 1' (H234356-22)

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	08/15/2023	ND	2.04	102	2.00	0.817		
Toluene*	<0.050	0.050	08/15/2023	ND	1.91	95.6	2.00	0.167		
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	1.84	92.2	2.00	1.89		
Total Xylenes*	<0.150	0.150	08/15/2023	ND	5.39	89.8	6.00	1.76		
Total BTEX	<0.300	0.300	08/15/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	08/15/2023	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	08/14/2023	ND	164	82.1	200	0.254	
DRO >C10-C28*	285	10.0	08/14/2023	ND	153	76.5	200	6.80	
EXT DRO >C28-C36	106	10.0	08/14/2023	ND					

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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: 08/11/2023
 Reported: 08/17/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 5 - 2' (H234356-23)

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	08/15/2023	ND	2.04	102	2.00	0.817		
Toluene*	<0.050	0.050	08/15/2023	ND	1.91	95.6	2.00	0.167		
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	1.84	92.2	2.00	1.89		
Total Xylenes*	<0.150	0.150	08/15/2023	ND	5.39	89.8	6.00	1.76		
Total BTEX	<0.300	0.300	08/15/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	08/15/2023	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	08/15/2023	ND	164	82.1	200	0.254	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	153	76.5	200	6.80	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/11/2023
 Reported: 08/17/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 5 - 3' (H234356-24)

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	08/15/2023	ND	2.04	102	2.00	0.817		
Toluene*	<0.050	0.050	08/15/2023	ND	1.91	95.6	2.00	0.167		
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	1.84	92.2	2.00	1.89		
Total Xylenes*	<0.150	0.150	08/15/2023	ND	5.39	89.8	6.00	1.76		
Total BTX	<0.300	0.300	08/15/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	08/15/2023	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	08/15/2023	ND	164	82.1	200	0.254	
DRO >C10-C28*	29.9	10.0	08/15/2023	ND	153	76.5	200	6.80	
EXT DRO >C28-C36	10.3	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 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: 08/11/2023
 Reported: 08/17/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 5 - 4' (H234356-25)

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	08/15/2023	ND	2.04	102	2.00	0.817		
Toluene*	<0.050	0.050	08/15/2023	ND	1.91	95.6	2.00	0.167		
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	1.84	92.2	2.00	1.89		
Total Xylenes*	<0.150	0.150	08/15/2023	ND	5.39	89.8	6.00	1.76		
Total BTEX	<0.300	0.300	08/15/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	08/15/2023	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	08/15/2023	ND	164	82.1	200	0.254	
DRO >C10-C28*	11.7	10.0	08/15/2023	ND	153	76.5	200	6.80	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 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: 08/11/2023
 Reported: 08/17/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 6 - SURF (H234356-26)

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	08/15/2023	ND	2.04	102	2.00	0.817	
Toluene*	<0.050	0.050	08/15/2023	ND	1.91	95.6	2.00	0.167	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	1.84	92.2	2.00	1.89	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	5.39	89.8	6.00	1.76	
Total BTEX	<0.300	0.300	08/15/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3120	16.0	08/15/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	164	82.1	200	0.254	
DRO >C10-C28*	6980	10.0	08/15/2023	ND	153	76.5	200	6.80	
EXT DRO >C28-C36	2360	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane 96.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 244 % 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: 08/11/2023
 Reported: 08/17/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 6 - 1' (H234356-27)

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	08/15/2023	ND	2.04	102	2.00	0.817		
Toluene*	<0.050	0.050	08/15/2023	ND	1.91	95.6	2.00	0.167		
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	1.84	92.2	2.00	1.89		
Total Xylenes*	<0.150	0.150	08/15/2023	ND	5.39	89.8	6.00	1.76		
Total BTEX	<0.300	0.300	08/15/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	08/15/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	164	82.1	200	0.254	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	153	76.5	200	6.80	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane 97.3 % 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
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 08/11/2023
 Reported: 08/17/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 6 - 2' (H234356-28)

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	08/15/2023	ND	2.04	102	2.00	0.817		
Toluene*	<0.050	0.050	08/15/2023	ND	1.91	95.6	2.00	0.167		
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	1.84	92.2	2.00	1.89		
Total Xylenes*	<0.150	0.150	08/15/2023	ND	5.39	89.8	6.00	1.76		
Total BTX	<0.300	0.300	08/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	176	16.0	08/15/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	164	82.1	200	0.254	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	153	76.5	200	6.80	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/11/2023
 Reported: 08/17/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 6 - 3' (H234356-29)

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	08/15/2023	ND	2.17	108	2.00	0.227		
Toluene*	<0.050	0.050	08/15/2023	ND	2.08	104	2.00	1.11		
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	2.03	102	2.00	0.648		
Total Xylenes*	<0.150	0.150	08/15/2023	ND	6.19	103	6.00	1.81		
Total BTX	<0.300	0.300	08/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 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	384	16.0	08/15/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	164	82.1	200	0.254	
DRO >C10-C28*	13.7	10.0	08/15/2023	ND	153	76.5	200	6.80	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane 95.9 % 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
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 08/11/2023
 Reported: 08/17/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 6 - 4' (H234356-30)

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	08/15/2023	ND	2.17	108	2.00	0.227	
Toluene*	<0.050	0.050	08/15/2023	ND	2.08	104	2.00	1.11	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	2.03	102	2.00	0.648	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	6.19	103	6.00	1.81	
Total BTX	<0.300	0.300	08/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/15/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	164	82.1	200	0.254	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	153	76.5	200	6.80	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 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: 08/11/2023
 Reported: 08/17/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HZ 1 - SURF (H234356-31)

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	08/15/2023	ND	2.17	108	2.00	0.227	
Toluene*	<0.050	0.050	08/15/2023	ND	2.08	104	2.00	1.11	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	2.03	102	2.00	0.648	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	6.19	103	6.00	1.81	
Total BTX	<0.300	0.300	08/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 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	08/15/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	164	82.1	200	0.254	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	153	76.5	200	6.80	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 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: 08/11/2023
 Reported: 08/17/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HZ 1 - 1' (H234356-32)

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	08/15/2023	ND	2.17	108	2.00	0.227	
Toluene*	<0.050	0.050	08/15/2023	ND	2.08	104	2.00	1.11	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	2.03	102	2.00	0.648	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	6.19	103	6.00	1.81	
Total BTX	<0.300	0.300	08/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/15/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	164	82.1	200	0.254	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	153	76.5	200	6.80	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 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: 08/11/2023
 Reported: 08/17/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HZ 2 - SURF (H234356-33)

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	08/15/2023	ND	2.17	108	2.00	0.227	
Toluene*	<0.050	0.050	08/15/2023	ND	2.08	104	2.00	1.11	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	2.03	102	2.00	0.648	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	6.19	103	6.00	1.81	
Total BTX	<0.300	0.300	08/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.5 % 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	08/15/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	164	82.1	200	0.254	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	153	76.5	200	6.80	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane 99.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/11/2023
 Reported: 08/17/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HZ 2 - 1' (H234356-34)

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	08/15/2023	ND	2.17	108	2.00	0.227	
Toluene*	<0.050	0.050	08/15/2023	ND	2.08	104	2.00	1.11	
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	2.03	102	2.00	0.648	
Total Xylenes*	<0.150	0.150	08/15/2023	ND	6.19	103	6.00	1.81	
Total BTX	<0.300	0.300	08/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 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	16.0	16.0	08/15/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	164	82.1	200	0.254	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	153	76.5	200	6.80	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/11/2023
 Reported: 08/17/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HZ 3 - SURF (H234356-35)

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	08/15/2023	ND	2.17	108	2.00	0.227		
Toluene*	<0.050	0.050	08/15/2023	ND	2.08	104	2.00	1.11		
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	2.03	102	2.00	0.648		
Total Xylenes*	<0.150	0.150	08/15/2023	ND	6.19	103	6.00	1.81		
Total BTX	<0.300	0.300	08/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/15/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	164	82.1	200	0.254	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	153	76.5	200	6.80	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 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: 08/11/2023
 Reported: 08/17/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: HZ 3 - 1' (H234356-36)

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	08/15/2023	ND	2.17	108	2.00	0.227		
Toluene*	<0.050	0.050	08/15/2023	ND	2.08	104	2.00	1.11		
Ethylbenzene*	<0.050	0.050	08/15/2023	ND	2.03	102	2.00	0.648		
Total Xylenes*	<0.150	0.150	08/15/2023	ND	6.19	103	6.00	1.81		
Total BTEX	<0.300	0.300	08/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/15/2023	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/15/2023	ND	164	82.1	200	0.254	
DRO >C10-C28*	<10.0	10.0	08/15/2023	ND	153	76.5	200	6.80	
EXT DRO >C28-C36	<10.0	10.0	08/15/2023	ND					

Surrogate: 1-Chlorooctane 99.5 % 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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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

September 05, 2023

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: SOUTH RIDGE PRODUCTION FACILITY

Enclosed are the results of analyses for samples received by the laboratory on 08/29/23 15:18.

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:	08/29/2023	Sampling Date:	08/29/2023
Reported:	09/05/2023	Sampling Type:	Soil
Project Name:	SOUTH RIDGE PRODUCTION FACILITY	Sampling Condition:	Cool & Intact
Project Number:	BTA	Sample Received By:	Dionica Hinojos
Project Location:	UL / E SEC 2 T2S - R34E		

Sample ID: FL 1 (H234698-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/31/2023	ND	1.86	93.0	2.00	0.717		
Toluene*	<0.050	0.050	08/31/2023	ND	2.19	110	2.00	1.87		
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	2.24	112	2.00	1.42		
Total Xylenes*	<0.150	0.150	08/31/2023	ND	6.67	111	6.00	1.04		
Total BTEX	<0.300	0.300	08/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 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	144	16.0	08/30/2023	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	08/30/2023	ND	180	89.9	200	0.420	
DRO >C10-C28*	345	10.0	08/30/2023	ND	214	107	200	2.08	
EXT DRO >C28-C36	104	10.0	08/30/2023	ND					

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 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: 08/29/2023
 Reported: 09/05/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 2 (H234698-02)

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	08/31/2023	ND	1.86	93.0	2.00	0.717	
Toluene*	<0.050	0.050	08/31/2023	ND	2.19	110	2.00	1.87	
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	2.24	112	2.00	1.42	
Total Xylenes*	<0.150	0.150	08/31/2023	ND	6.67	111	6.00	1.04	
Total BTEX	<0.300	0.300	08/31/2023	ND					

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

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/30/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/30/2023	ND	180	89.9	200	0.420	
DRO >C10-C28*	307	10.0	08/30/2023	ND	214	107	200	2.08	
EXT DRO >C28-C36	103	10.0	08/30/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 151 % 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: 08/29/2023
 Reported: 09/05/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 3 (H234698-03)

BTX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2023	ND	1.86	93.0	2.00	0.717	
Toluene*	<0.050	0.050	08/31/2023	ND	2.19	110	2.00	1.87	
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	2.24	112	2.00	1.42	
Total Xylenes*	<0.150	0.150	08/31/2023	ND	6.67	111	6.00	1.04	
Total BTX	<0.300	0.300	08/31/2023	ND					

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

Chloride, SM4500CI-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/30/2023	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	08/30/2023	ND	180	89.9	200	0.420	
DRO >C10-C28*	<10.0	10.0	08/30/2023	ND	214	107	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					

Surrogate: 1-Chlorooctane 112 % 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: 08/29/2023
 Reported: 09/05/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 4 (H234698-04)

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	08/31/2023	ND	1.86	93.0	2.00	0.717	
Toluene*	<0.050	0.050	08/31/2023	ND	2.19	110	2.00	1.87	
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	2.24	112	2.00	1.42	
Total Xylenes*	<0.150	0.150	08/31/2023	ND	6.67	111	6.00	1.04	
Total BTX	<0.300	0.300	08/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	96.0	16.0	08/30/2023	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	08/30/2023	ND	180	89.9	200	0.420	
DRO >C10-C28*	<10.0	10.0	08/30/2023	ND	214	107	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					

Surrogate: 1-Chlorooctane 116 % 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: 08/29/2023
 Reported: 09/05/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 5 (H234698-05)

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	08/31/2023	ND	1.86	93.0	2.00	0.717	
Toluene*	<0.050	0.050	08/31/2023	ND	2.19	110	2.00	1.87	
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	2.24	112	2.00	1.42	
Total Xylenes*	<0.150	0.150	08/31/2023	ND	6.67	111	6.00	1.04	
Total BTX	<0.300	0.300	08/31/2023	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	112	16.0	08/30/2023	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	08/30/2023	ND	180	89.9	200	0.420	
DRO >C10-C28*	<10.0	10.0	08/30/2023	ND	214	107	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 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: 08/29/2023
 Reported: 09/05/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 6 (H234698-06)

BTX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2023	ND	1.86	93.0	2.00	0.717	
Toluene*	<0.050	0.050	08/31/2023	ND	2.19	110	2.00	1.87	
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	2.24	112	2.00	1.42	
Total Xylenes*	<0.150	0.150	08/31/2023	ND	6.67	111	6.00	1.04	
Total BTX	<0.300	0.300	08/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.1 % 71.5-134

Chloride, SM4500CI-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/30/2023	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	08/30/2023	ND	180	89.9	200	0.420	
DRO >C10-C28*	43.4	10.0	08/30/2023	ND	214	107	200	2.08	
EXT DRO >C28-C36	12.5	10.0	08/30/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 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: 08/29/2023
 Reported: 09/05/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 7 (H234698-07)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2023	ND	1.85	92.6	2.00	3.23	
Toluene*	<0.050	0.050	08/31/2023	ND	2.16	108	2.00	1.39	
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	2.22	111	2.00	2.94	QR-03
Total Xylenes*	<0.150	0.150	08/31/2023	ND	6.70	112	6.00	2.00	QR-03
Total BTX	<0.300	0.300	08/31/2023	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	416	16.0	08/30/2023	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	08/30/2023	ND	180	89.9	200	0.420	
DRO >C10-C28*	<10.0	10.0	08/30/2023	ND	214	107	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 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: 08/29/2023
 Reported: 09/05/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 8 (H234698-08)

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	08/31/2023	ND	1.85	92.6	2.00	3.23	
Toluene*	<0.050	0.050	08/31/2023	ND	2.16	108	2.00	1.39	
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	2.22	111	2.00	2.94	
Total Xylenes*	<0.150	0.150	08/31/2023	ND	6.70	112	6.00	2.00	
Total BTEX	<0.300	0.300	08/31/2023	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	272	16.0	08/30/2023	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	08/31/2023	ND	180	89.9	200	0.420	
DRO >C10-C28*	<10.0	10.0	08/31/2023	ND	214	107	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	08/31/2023	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 132 % 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: 08/29/2023
 Reported: 09/05/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 9 (H234698-09)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2023	ND	1.85	92.6	2.00	3.23	
Toluene*	<0.050	0.050	08/31/2023	ND	2.16	108	2.00	1.39	
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	2.22	111	2.00	2.94	
Total Xylenes*	<0.150	0.150	08/31/2023	ND	6.70	112	6.00	2.00	
Total BTX	<0.300	0.300	08/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.3 % 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	336	16.0	08/30/2023	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	09/05/2023	ND	180	89.9	200	0.420	
DRO >C10-C28*	<10.0	10.0	09/05/2023	ND	214	107	200	2.08	
EXT DRO >C28-C36	<10.0	10.0	09/05/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/29/2023
 Reported: 09/05/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 10 (H234698-10)

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	08/31/2023	ND	1.85	92.6	2.00	3.23		
Toluene*	<0.050	0.050	08/31/2023	ND	2.16	108	2.00	1.39		
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	2.22	111	2.00	2.94		
Total Xylenes*	<0.150	0.150	08/31/2023	ND	6.70	112	6.00	2.00		
Total BTEX	<0.300	0.300	08/31/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	08/30/2023	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	08/30/2023	ND	178	89.1	200	0.377	
DRO >C10-C28*	12.7	10.0	08/30/2023	ND	190	95.1	200	1.29	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					

Surrogate: 1-Chlorooctane 103 % 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: 08/29/2023
 Reported: 09/05/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 11 (H234698-11)

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	08/31/2023	ND	1.85	92.6	2.00	3.23		
Toluene*	<0.050	0.050	08/31/2023	ND	2.16	108	2.00	1.39		
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	2.22	111	2.00	2.94		
Total Xylenes*	<0.150	0.150	08/31/2023	ND	6.70	112	6.00	2.00		
Total BTEX	<0.300	0.300	08/31/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	08/30/2023	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	08/30/2023	ND	178	89.1	200	0.377	
DRO >C10-C28*	23.0	10.0	08/30/2023	ND	190	95.1	200	1.29	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					

Surrogate: 1-Chlorooctane 95.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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: 08/29/2023
 Reported: 09/05/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 12 (H234698-12)

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	08/31/2023	ND	1.85	92.6	2.00	3.23		
Toluene*	<0.050	0.050	08/31/2023	ND	2.16	108	2.00	1.39		
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	2.22	111	2.00	2.94		
Total Xylenes*	<0.150	0.150	08/31/2023	ND	6.70	112	6.00	2.00		
Total BTEX	<0.300	0.300	08/31/2023	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	224	16.0	08/30/2023	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	08/30/2023	ND	178	89.1	200	0.377	
DRO >C10-C28*	17.2	10.0	08/30/2023	ND	190	95.1	200	1.29	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.7 % 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: 08/29/2023
 Reported: 09/05/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 13 (H234698-13)

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	08/31/2023	ND	1.85	92.6	2.00	3.23		
Toluene*	<0.050	0.050	08/31/2023	ND	2.16	108	2.00	1.39		
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	2.22	111	2.00	2.94		
Total Xylenes*	<0.150	0.150	08/31/2023	ND	6.70	112	6.00	2.00		
Total BTEX	<0.300	0.300	08/31/2023	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	144	16.0	08/30/2023	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	08/30/2023	ND	178	89.1	200	0.377	
DRO >C10-C28*	12.0	10.0	08/30/2023	ND	190	95.1	200	1.29	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 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: 08/29/2023
 Reported: 09/05/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 14 (H234698-14)

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	08/31/2023	ND	1.85	92.6	2.00	3.23		
Toluene*	<0.050	0.050	08/31/2023	ND	2.16	108	2.00	1.39		
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	2.22	111	2.00	2.94		
Total Xylenes*	<0.150	0.150	08/31/2023	ND	6.70	112	6.00	2.00		
Total BTEX	<0.300	0.300	08/31/2023	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	112	16.0	08/30/2023	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	08/30/2023	ND	178	89.1	200	0.377	
DRO >C10-C28*	<10.0	10.0	08/30/2023	ND	190	95.1	200	1.29	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/29/2023
 Reported: 09/05/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 15 (H234698-15)

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	08/31/2023	ND	1.85	92.6	2.00	3.23		
Toluene*	<0.050	0.050	08/31/2023	ND	2.16	108	2.00	1.39		
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	2.22	111	2.00	2.94		
Total Xylenes*	<0.150	0.150	08/31/2023	ND	6.70	112	6.00	2.00		
Total BTEX	<0.300	0.300	08/31/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/30/2023	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	08/30/2023	ND	178	89.1	200	0.377	
DRO >C10-C28*	<10.0	10.0	08/30/2023	ND	190	95.1	200	1.29	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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
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 Fax To: (505) 391-4585

Received: 08/29/2023
 Reported: 09/05/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 16 (H234698-16)

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	08/31/2023	ND	1.85	92.6	2.00	3.23		
Toluene*	<0.050	0.050	08/31/2023	ND	2.16	108	2.00	1.39		
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	2.22	111	2.00	2.94		
Total Xylenes*	<0.150	0.150	08/31/2023	ND	6.70	112	6.00	2.00		
Total BTX	<0.300	0.300	08/31/2023	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	48.0	16.0	08/30/2023	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	08/30/2023	ND	178	89.1	200	0.377	
DRO >C10-C28*	<10.0	10.0	08/30/2023	ND	190	95.1	200	1.29	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
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 P.O. Box 1058
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 Fax To: (505) 391-4585

Received: 08/29/2023
 Reported: 09/05/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 17 (H234698-17)

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	08/31/2023	ND	1.85	92.6	2.00	3.23		
Toluene*	<0.050	0.050	08/31/2023	ND	2.16	108	2.00	1.39		
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	2.22	111	2.00	2.94		
Total Xylenes*	<0.150	0.150	08/31/2023	ND	6.70	112	6.00	2.00		
Total BTEX	<0.300	0.300	08/31/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/30/2023	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	08/30/2023	ND	178	89.1	200	0.377	
DRO >C10-C28*	<10.0	10.0	08/30/2023	ND	190	95.1	200	1.29	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 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: 08/29/2023
 Reported: 09/05/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 18 (H234698-18)

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	08/31/2023	ND	1.85	92.6	2.00	3.23		
Toluene*	<0.050	0.050	08/31/2023	ND	2.16	108	2.00	1.39		
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	2.22	111	2.00	2.94		
Total Xylenes*	<0.150	0.150	08/31/2023	ND	6.70	112	6.00	2.00		
Total BTEX	<0.300	0.300	08/31/2023	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	256	16.0	08/30/2023	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	08/30/2023	ND	178	89.1	200	0.377	
DRO >C10-C28*	<10.0	10.0	08/30/2023	ND	190	95.1	200	1.29	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					

Surrogate: 1-Chlorooctane 101 % 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
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 08/29/2023
 Reported: 09/05/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 19 (H234698-19)

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	08/31/2023	ND	1.85	92.6	2.00	3.23		
Toluene*	<0.050	0.050	08/31/2023	ND	2.16	108	2.00	1.39		
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	2.22	111	2.00	2.94		
Total Xylenes*	<0.150	0.150	08/31/2023	ND	6.70	112	6.00	2.00		
Total BTEX	<0.300	0.300	08/31/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/30/2023	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	08/30/2023	ND	178	89.1	200	0.377	
DRO >C10-C28*	<10.0	10.0	08/30/2023	ND	190	95.1	200	1.29	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/29/2023
 Reported: 09/05/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW 1 (H234698-20)

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	08/31/2023	ND	1.85	92.6	2.00	3.23		
Toluene*	<0.050	0.050	08/31/2023	ND	2.16	108	2.00	1.39		
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	2.22	111	2.00	2.94		
Total Xylenes*	<0.150	0.150	08/31/2023	ND	6.70	112	6.00	2.00		
Total BTEx	<0.300	0.300	08/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/30/2023	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	08/30/2023	ND	178	89.1	200	0.377	
DRO >C10-C28*	404	10.0	08/30/2023	ND	190	95.1	200	1.29	
EXT DRO >C28-C36	204	10.0	08/30/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/29/2023
 Reported: 09/05/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW 2 (H234698-21)

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	08/31/2023	ND	1.85	92.6	2.00	3.23		
Toluene*	<0.050	0.050	08/31/2023	ND	2.16	108	2.00	1.39		
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	2.22	111	2.00	2.94		
Total Xylenes*	<0.150	0.150	08/31/2023	ND	6.70	112	6.00	2.00		
Total BTX	<0.300	0.300	08/31/2023	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	80.0	16.0	08/30/2023	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	08/30/2023	ND	178	89.1	200	0.377	
DRO >C10-C28*	<10.0	10.0	08/30/2023	ND	190	95.1	200	1.29	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.5 % 49.1-148

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Analytical Results For:

Hungry Horse Environmental
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Received: 08/29/2023
 Reported: 09/05/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW 3 (H234698-22)

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	08/31/2023	ND	1.85	92.6	2.00	3.23		
Toluene*	<0.050	0.050	08/31/2023	ND	2.16	108	2.00	1.39		
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	2.22	111	2.00	2.94		
Total Xylenes*	<0.150	0.150	08/31/2023	ND	6.70	112	6.00	2.00		
Total BTEX	<0.300	0.300	08/31/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/30/2023	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	08/30/2023	ND	178	89.1	200	0.377	
DRO >C10-C28*	<10.0	10.0	08/30/2023	ND	190	95.1	200	1.29	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					

Surrogate: 1-Chlorooctane 95.8 % 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
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 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 08/29/2023
 Reported: 09/05/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW 4 (H234698-23)

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	08/31/2023	ND	1.85	92.6	2.00	3.23		
Toluene*	<0.050	0.050	08/31/2023	ND	2.16	108	2.00	1.39		
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	2.22	111	2.00	2.94		
Total Xylenes*	<0.150	0.150	08/31/2023	ND	6.70	112	6.00	2.00		
Total BTX	<0.300	0.300	08/31/2023	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	80.0	16.0	08/30/2023	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	08/30/2023	ND	178	89.1	200	0.377	
DRO >C10-C28*	<10.0	10.0	08/30/2023	ND	190	95.1	200	1.29	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/29/2023
 Reported: 09/05/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW 5 (H234698-24)

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	08/31/2023	ND	1.85	92.6	2.00	3.23		
Toluene*	<0.050	0.050	08/31/2023	ND	2.16	108	2.00	1.39		
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	2.22	111	2.00	2.94		
Total Xylenes*	<0.150	0.150	08/31/2023	ND	6.70	112	6.00	2.00		
Total BTX	<0.300	0.300	08/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	1500	16.0	08/30/2023	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	08/30/2023	ND	178	89.1	200	0.377	
DRO >C10-C28*	458	10.0	08/30/2023	ND	190	95.1	200	1.29	
EXT DRO >C28-C36	136	10.0	08/30/2023	ND					

Surrogate: 1-Chlorooctane 105 % 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
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 Fax To: (505) 391-4585

Received: 08/29/2023
 Reported: 09/05/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW 6 (H234698-25)

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	08/31/2023	ND	1.85	92.6	2.00	3.23		
Toluene*	<0.050	0.050	08/31/2023	ND	2.16	108	2.00	1.39		
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	2.22	111	2.00	2.94		
Total Xylenes*	<0.150	0.150	08/31/2023	ND	6.70	112	6.00	2.00		
Total BTEX	<0.300	0.300	08/31/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1580	16.0	08/30/2023	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	08/30/2023	ND	178	89.1	200	0.377	
DRO >C10-C28*	321	10.0	08/30/2023	ND	190	95.1	200	1.29	
EXT DRO >C28-C36	94.7	10.0	08/30/2023	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/29/2023
 Reported: 09/05/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW 7 (H234698-26)

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	08/31/2023	ND	1.85	92.6	2.00	3.23		
Toluene*	<0.050	0.050	08/31/2023	ND	2.16	108	2.00	1.39		
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	2.22	111	2.00	2.94		
Total Xylenes*	<0.150	0.150	08/31/2023	ND	6.70	112	6.00	2.00		
Total BTEX	<0.300	0.300	08/31/2023	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1260	16.0	08/30/2023	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	08/30/2023	ND	178	89.1	200	0.377	
DRO >C10-C28*	356	10.0	08/30/2023	ND	190	95.1	200	1.29	
EXT DRO >C28-C36	103	10.0	08/30/2023	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/29/2023
 Reported: 09/05/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW 8 (H234698-27)

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	08/31/2023	ND	1.84	92.0	2.00	1.09		
Toluene*	<0.050	0.050	08/31/2023	ND	1.76	88.2	2.00	1.56		
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	1.83	91.5	2.00	0.441		
Total Xylenes*	<0.150	0.150	08/31/2023	ND	5.52	92.1	6.00	0.0347		
Total BTX	<0.300	0.300	08/31/2023	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	64.0	16.0	08/30/2023	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	08/30/2023	ND	178	89.1	200	0.377	
DRO >C10-C28*	<10.0	10.0	08/30/2023	ND	190	95.1	200	1.29	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 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: 08/29/2023
 Reported: 09/05/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW 9 (H234698-28)

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	08/31/2023	ND	1.84	92.0	2.00	1.09		
Toluene*	<0.050	0.050	08/31/2023	ND	1.76	88.2	2.00	1.56		
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	1.83	91.5	2.00	0.441		
Total Xylenes*	<0.150	0.150	08/31/2023	ND	5.52	92.1	6.00	0.0347		
Total BTEx	<0.300	0.300	08/31/2023	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	304	16.0	08/30/2023	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	08/30/2023	ND	178	89.1	200	0.377	
DRO >C10-C28*	<10.0	10.0	08/30/2023	ND	190	95.1	200	1.29	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 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: 08/29/2023
 Reported: 09/05/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW 10 (H234698-29)

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	08/31/2023	ND	1.84	92.0	2.00	1.09	
Toluene*	<0.050	0.050	08/31/2023	ND	1.76	88.2	2.00	1.56	
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	1.83	91.5	2.00	0.441	
Total Xylenes*	<0.150	0.150	08/31/2023	ND	5.52	92.1	6.00	0.0347	
Total BTX	<0.300	0.300	08/31/2023	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	96.0	16.0	08/30/2023	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	08/30/2023	ND	178	89.1	200	0.377	
DRO >C10-C28*	<10.0	10.0	08/30/2023	ND	190	95.1	200	1.29	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/29/2023
 Reported: 09/05/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW 11 (H234698-30)

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	08/31/2023	ND	1.84	92.0	2.00	1.09		
Toluene*	<0.050	0.050	08/31/2023	ND	1.76	88.2	2.00	1.56		
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	1.83	91.5	2.00	0.441		
Total Xylenes*	<0.150	0.150	08/31/2023	ND	5.52	92.1	6.00	0.0347		
Total BTEX	<0.300	0.300	08/31/2023	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	256	16.0	08/30/2023	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	08/30/2023	ND	194	96.8	200	10.2	
DRO >C10-C28*	11.7	10.0	08/30/2023	ND	196	97.9	200	5.01	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/29/2023
 Reported: 09/05/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 08/29/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW 12 (H234698-31)

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	08/31/2023	ND	1.84	92.0	2.00	1.09	
Toluene*	<0.050	0.050	08/31/2023	ND	1.76	88.2	2.00	1.56	
Ethylbenzene*	<0.050	0.050	08/31/2023	ND	1.83	91.5	2.00	0.441	
Total Xylenes*	<0.150	0.150	08/31/2023	ND	5.52	92.1	6.00	0.0347	
Total BTEX	<0.300	0.300	08/31/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/30/2023	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	08/30/2023	ND	194	96.8	200	10.2	
DRO >C10-C28*	12.1	10.0	08/30/2023	ND	196	97.9	200	5.01	
EXT DRO >C28-C36	<10.0	10.0	08/30/2023	ND					

Surrogate: 1-Chlorooctane 96.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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

Company Name: Hungry Horse LLC		P.O. #:		BILL TO										ANALYSIS REQUEST									
Project Manager: Daniel Dominguez		Company: BTA Oil Producers, LLC																					
Address: PO Box 1058		Attn: Kelton Beard																					
City: Hobbs		Address: 104 S Pecos St																					
Phone #: 575 393-3386		City: Midland																					
Fax #:		State: TX																					
Project #:		Zip: 79701																					
Project Owner: BTA Oil Producers, LLC		State: NM																					
Project Name: South Ridge Production Facility		City: Midland																					
Project Location: U/L E Sec 2 T23S - R34E		State: NM																					
Phone #: 432-312-2203		Zip: 79701																					
Fax #:		State: NM																					
Sample Name: Bradley Wells		City: Midland																					
FOR LAB USE ONLY		State: NM																					
Lab I.D. Sample I.D.		City: Midland																					
H234698		State: NM																					
1 FL1		City: Midland																					
2 FL2		State: NM																					
3 FL3		City: Midland																					
4 FL4		State: NM																					
5 FL5		City: Midland																					
6 FL6		State: NM																					
7 FL7		City: Midland																					
8 FL8		State: NM																					
9 FL9		City: Midland																					
10 FL10		State: NM																					
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Relinquished By:		Company: BTA Oil Producers, LLC																					
Date: 8/24/23		Attn: Kelton Beard																					
Time: 15:18		Address: 104 S Pecos St																					
Relinquished By:		City: Midland																					
Date:		State: TX																					
Time:		Zip: 79701																					
Delivered By: (Circle One)		City: Midland																					
Sampler - UPS - Bus - Other:		State: NM																					
2.30 #110		City: Midland																					
Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476		State: NM																					
Sample Condition		City: Midland																					
Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		State: NM																					
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		City: Midland																					
Checked By: (Initials)		State: NM																					
REMARKS:		City: Midland																					
Email results to: pm@hungry-horse.com		State: NM																					
kbeard@btaoil.com		City: Midland																					



Page 35 of 37

Released to Imaging: 2/5/2024 2:08:53 PM



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

September 18, 2023

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: SOUTH RIDGE PRODUCTION FACILITY

Enclosed are the results of analyses for samples received by the laboratory on 09/13/23 14:32.

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:	09/13/2023	Sampling Date:	09/12/2023
Reported:	09/18/2023	Sampling Type:	Soil
Project Name:	SOUTH RIDGE PRODUCTION FACILITY	Sampling Condition:	Cool & Intact
Project Number:	BTA	Sample Received By:	Dionica Hinojos
Project Location:	UL / E SEC 2 T23S - R34E		

Sample ID: FL 1 B - 1' (H234946-01)

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	09/15/2023	ND	1.81	90.6	2.00	2.77	
Toluene*	<0.050	0.050	09/15/2023	ND	1.89	94.7	2.00	2.71	
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	1.95	97.3	2.00	1.97	
Total Xylenes*	<0.150	0.150	09/15/2023	ND	5.49	91.5	6.00	3.20	
Total BTX	<0.300	0.300	09/15/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/14/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2023	ND	189	94.7	200	1.48	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	218	109	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					

Surrogate: 1-Chlorooctane 91.5 % 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
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 09/13/2023
 Reported: 09/18/2023
 Project Name: SOUTH RIDGE PRODUCTION FACILITY
 Project Number: BTA
 Project Location: UL / E SEC 2 T23S - R34E

Sampling Date: 09/12/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FL 2 B - 1' (H234946-02)

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	09/15/2023	ND	1.81	90.6	2.00	2.77	
Toluene*	<0.050	0.050	09/15/2023	ND	1.89	94.7	2.00	2.71	
Ethylbenzene*	<0.050	0.050	09/15/2023	ND	1.95	97.3	2.00	1.97	
Total Xylenes*	<0.150	0.150	09/15/2023	ND	5.49	91.5	6.00	3.20	
Total BTEX	<0.300	0.300	09/15/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/14/2023	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/14/2023	ND	189	94.7	200	1.48	
DRO >C10-C28*	<10.0	10.0	09/14/2023	ND	218	109	200	2.65	
EXT DRO >C28-C36	<10.0	10.0	09/14/2023	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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

Page 5 of 5

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	nAPP2125728285
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: BTA Oil Producers, LLC	OGRID: 260297
Contact Name: Bob Hall	Contact Telephone: 432-682-3753
Contact email: bhall@btaoil.com	Incident # (assigned by OCD) nAPP2125728285
Contact mailing address: 104 S. Pecos St., Midland, TX 79701	

Location of Release Source

Latitude: **32.33268** Longitude: **-103.44573**
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: South Ridge Production Facility	Site Type: Production Facility
Date Release Discovered: 9/13/2021	API# (if applicable) Nearest well: South Ridge #001H API #30-025-46059

Unit Letter	Section	Township	Range	County
E	2	23S	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 checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 80 BBL	Volume Recovered (bbls) 70 BBL
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	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

Equipment Failure – Dump Valve Piping Washed Out

Portion of fitting for dump valve washed out, releasing oil into the earthen containment surrounding the facility production equipment. The release was contained on the well pad. Recovered 70 BO from inside the containment.

Calculation of spill volume attached.


State of New Mexico
Oil Conservation Division

Incident ID	nAPP2125728285
District RP	
Facility ID	
Application ID	

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 spill volume was greater than 25 BBL, which the NMOCD Rules define as a major release.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, Notice of Release was filed online via the Permitting Portal by Bob Hall on 9/14/2021.	

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: Bob Hall Title: Environmental Manager	
Signature: <u></u>	Date: 9/14/2021
email: bhall@btaoil.com	Telephone: 432-682-3753
<u>OCD Only</u>	
Received by: _____	Date: _____

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
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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 273074

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 273074
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	Earthen containment at South Ridge Production Facility delineated by sample ID's SP1 through SP6 approved for deferral. Site will need to be remediated and then reclaimed at time of a major facility deconstruction or at plugging and abandonment, whichever comes first.	2/5/2024