



## Remediation Summary and Closure Request

**Frontier Field Services, LLC**

**Caviness 6"**

**Lea County, New Mexico**

**Unit Letter "H", Section 11, Township 18 South, Range 33 East**

**Latitude 32.762638 North, Longitude 103.628168 West**

**NMOCD Incident # nAPP2229930371**

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Prepared For:

Frontier Field Services, LLC

47 Conoco Rd

Maljamar, NM 88264

Prepared By:

Hungry Horse, LLC

4024 Plains Hwy

Lovington, NM 88260

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**March 2023**

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Incident ID	nAPP2229930971
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 <b>not</b> on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

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

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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: Amber Groves Title: Remediation Specialist

Signature:  Date: 3/16/2023

email: agroves@durangomidstream.com Telephone: 575-703-7992

**OCD Only**

Received by: Jocelyn Harimon Date: 03/16/2023



Incident ID	nAPP2229930971
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## Remediation Plan

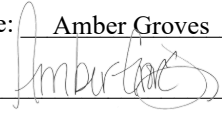
**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☒ 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: Amber Groves Title: Remediation Specialist  
Signature:  Date: 3/16/2023  
email: agroves@durangomidstream.com Telephone: 575-703-7992

**OCD Only**

Received by: Jocelyn Harimon Date: 03/16/2023

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

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

Incident ID	nAPP2229930971
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Facility ID	
Application ID	

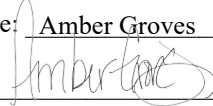
## Closure

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

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

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

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

Printed Name: Amber Groves Title: Remediation Specialist  
Signature:  Date: 3/16/2023  
email: agroves@durangomidstream.com Telephone: 575-703-7992

**OCD Only**

Received by: Jocelyn Harimon Date: 03/16/2023

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

Closure Approved by:  Date: 04/20/2023  
Printed Name: Jennifer Nobui Title: Environmental Specialist A



## HUNGRY HORSE, LLC

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

### Background:

The site is located in Unit Letter H (SE/NE), Section 11, Township 18 South, Range 33 East, approximately ten miles southeast of Maljamar, in Lea County, New Mexico. The property is privately owned. 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 on an active pipeline; Latitude 32.762638 North, Longitude 103.628168 West. The Initial NMOCD Form C-141 indicated that on October 24, 2022 approximately 12 bbls of condensate and 40.47 Mcf of natural gas were released due to internal and external corrosion on bottom of pipeline. A crew was dispatched to the release site and the line was repaired. No fluid was recovered. 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.

Two water wells were located within a half mile of the release area with water data logged at less than twenty-five years old, logged in December 2014. Well CP 00072 POD5 and POD6 have depth to water listed at sixty-four and sixty-one feet bgs, respectively. Utilizing this information, the NMOCD Closure Criteria for the Site were determined as follows:

Depth to Groundwater	Constituent	Method	Limit
51' - 100'	Chloride	EPA 300.0 or SM4500 CLB	10,000 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2,500 mg/kg
	GRO + DRO	EPA SW-846 Method 8015M Ext	1,000 mg/kg
	BTEX	EPA SW-846 Methods 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Methods 8021B or 8260B	10 mg/kg



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**Delineation and Remediation Activities:**

On October 28, 2022, Hungry Horse conducted an initial site assessment consisting of photographing and mapping the release area. On October 28 and 31, and November 3 and 4, 2022, the release area was sampled. During the sampling events, sample test trenches were advanced within the release area in an effort to determine the vertical extent of contamination. These sample locations are identified by SP designation. In addition, sample test trenches 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 test trenches, soil samples were collected and field screened for the presence of chloride concentrations utilizing a Hanna® instruments DIST® 4 EC tester.

Based on field observations and field test data noted above and provided in Attachment V, forty representative soil samples, two from each sample location, were selected for laboratory analysis. Delineation soil samples SP1 through SP10, HZ1 through HZ10, 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 through SP10 at Surface, SP1 at eight feet, SP5 at four feet, SP6 at four feet, SP7 at four feet, SP8 at four feet, and SP9 at four feet bgs, which exhibited TPH concentrations in excess of the NMOCD Closure Criteria.

From November 7-14, 2022, the release area was excavated to approximately three feet bgs. Soil impacted above the NMOCD Closure Criteria was excavated and temporarily stockpiled on site, atop plastic, before transport to an NMOCD approved disposal facility.

On November 14, 2022, the areas characterized by sample locations SP1 at eight feet, SP5 at four feet, SP6 at four feet, SP7 at four feet, SP8 at four feet, and SP9 at four feet, were sampled. Soil samples SP1 at ten feet bgs, SP5, SP6, SP7, SP8, and SP9, each sampled at four and half feet bgs, 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 SP5 and SP7 at four and half feet bgs, which exhibited TPH concentrations in excess of the NMOCD Closure Criteria.

On November 21, 2022, the areas characterized by sample locations SP5 and SP7 at four and half feet bgs were further excavated and sampled. Soil samples SP5 and SP7, both sampled at five feet bgs, were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in each of the submitted samples.

The excavated area measured approximately three hundred sixty feet in length, five to twenty-one feet in width, and four and half to ten feet in depth. During remediation activities



approximately 948 cubic yards of impacted soil were excavated and hauled to an NMOCD approved disposal facility. Manifests can be provided upon request.

On November 23, 2022, forty-three 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 FL27 and SW1 through SW16, 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 FL7, FL8, and FL12 each at four feet, SW8, SW10, SW12, and SW16 each at two feet, which exhibited TPH concentrations in excess of the NMOCD Closure Criteria.

On December 2, 2022, the areas in excess of NMOCD Closure Criteria were further excavated and sampled. Soil samples FL7b, FL8b, and FL12b each at four and half feet, SW8b, SW10b, SW12b, and SW16b each at two feet, 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.

On January 23, 2023, the NMCOD was contacted and a ninety-day extension was requested due to delays in receiving backfill permission from the landowner. On January 23, 2023, the NMOCD approved a ninety-day extension, moving the completion date to April 24, 2023. NMOCD correspondence is provided in Attachment II.

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.

### **Restoration, Reclamation, and Re-Vegetation:**

Based upon laboratory analytical results from confirmation soil samples, the excavated area was backfilled with locally sourced, clean, non-impacted material. The area was contoured to achieve erosion control and preserve surface water flow. The affected area will be reseeded with an approved seed mixture during the first favorable growing season following these completed remediation activities.

### **Closure Request:**

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



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Based on laboratory analytical results, Frontier Field Services, LLC respectfully requests closure of the Caviness 6" location, nAPP2229930971.

**Limitations:**

Hungry Horse, LLC, has prepared this *Remediation Summary and Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Hungry Horse has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Hungry Horse has not conducted an independent examination of the facts contained in referenced materials and statements. Hungry Horse has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Hungry Horse notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.



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**Distribution:**

**Frontier Field Services, LLC**

47 Conoco Rd.

Maljamar, NM 88264

**New Mexico Energy, Minerals and Natural Resources Department**

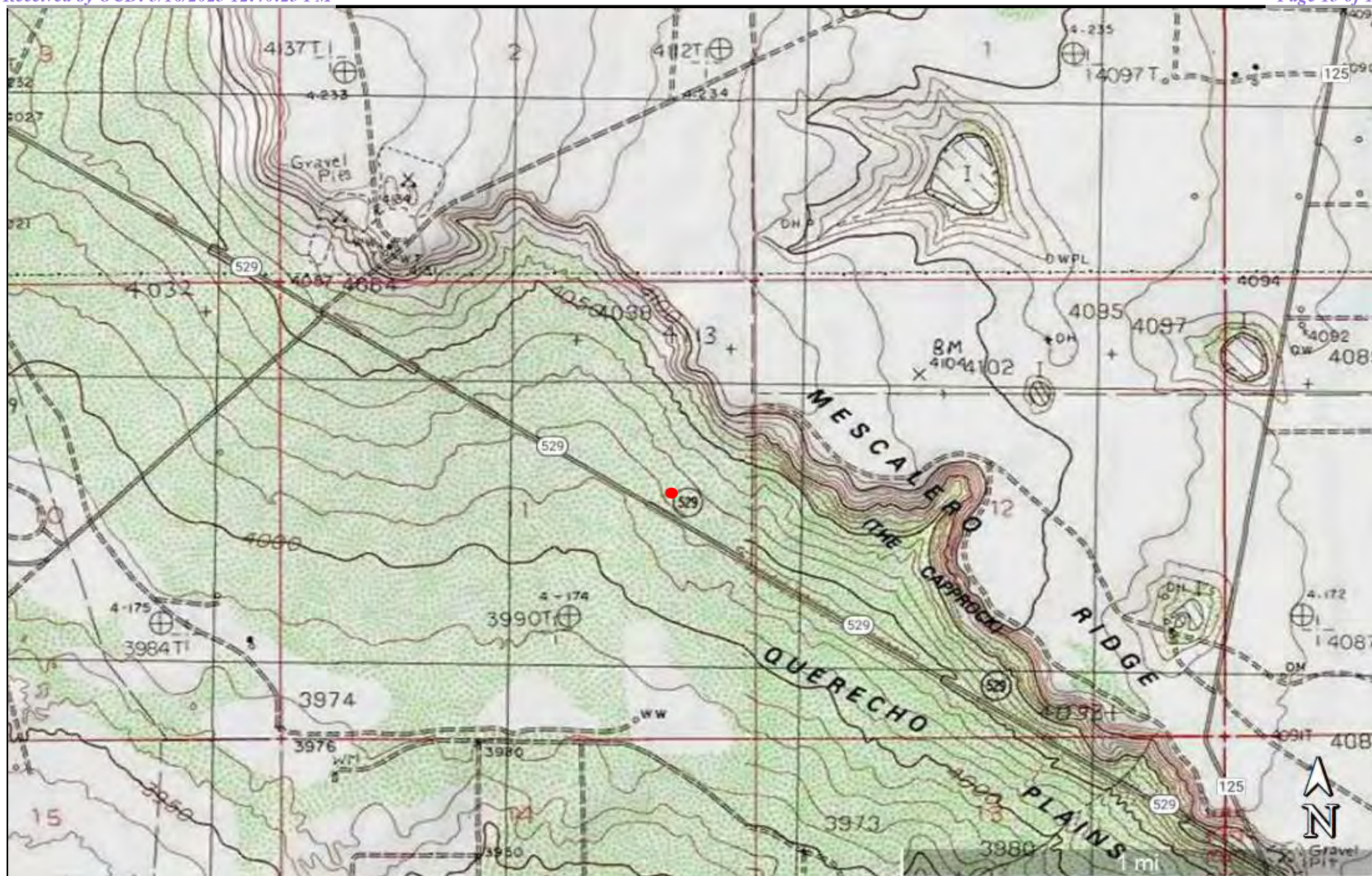
Oil Conservation Division, District 2

811 S. First St.

Artesia, NM 88210

## **Figures**



**Figure 1**

Topographic Map  
 Frontier Field Services, LLC  
 Caviness 6"  
 GPS: 32.76265, -103.62815  
 Lea County

**Legend:**

● Caviness 6" Location

Drafted: dd  
 Checked: bw  
 Date: 11/7/22





**Figure 2**

OSE POD Locations Map  
Frontier Field Services, LLC  
Caviness 6"  
GPS: 32.76265, -103.62815  
Lea County

**Legend:**

- Caviness 6" Location
- Active OSE Water Well

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Date: 11/7/22





**Figure 3**

USGS Well Locations Map  
Frontier Field Services, LLC  
Caviness 6"  
GPS: 32.76265, -103.62815  
Lea County

**Legend:**

● Caviness 6" Location



Drafted: dd  
Checked: bw  
Date: 11/7/22



**Figure 4**

Delineation Sample Map  
 Frontier Field Services, LLC  
 Caviness 6"  
 GPS: 32.76265, -103.62815  
 Lea County

**Legend:**

- Release Area
- SP1 Delineation Sample Location

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 Date: 11/7/22







**Figure 5**

Excavation Sample Map  
 Frontier Field Services, LLC  
 Caviness 6"  
 GPS: 32.76265, -103.62815  
 Lea County

**Legend:**

-  Excavated Area  
 Composite Confirmation Sample Location



Drafted: dd  
 Checked: bw  
 Date: 12/2/22

## **Table**



**TABLE 1**  
**Summary of Soil Sample Laboratory Analytical Results**  
**Frontier Field Services, LLC**  
**Caviness 6"**  
**NMOCD Ref. #: nAPP2229930971**

Sample ID	Date	Depth (ft)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
SP1	10/28/22	Surf	Excavated	<b>20.2</b>	<b>324</b>	2,480	4,210	6,690	527	<b>7,217</b>	16.0
	11/4/22	8	Excavated	<b>34.3</b>	<b>279</b>	1,230	541	1,771	<10.0	<b>1,771</b>	32.0
	11/14/22	10	In-Situ	<0.050	<0.300	<10.0	17.1	<20.0	<10.0	<30.0	64.0
SP2	10/28/22	Surf	Excavated	<b>18.9</b>	<b>195</b>	757	1,390	2,147	249	<b>2,396</b>	528
	11/4/22	4	In-Situ	0.081	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SP3	10/28/22	Surf	Excavated	2.26	<b>154</b>	2,310	13,200	15,510	2,060	<b>17,570</b>	80.0
	11/4/22	4	In-Situ	<0.050	<0.300	<10.0	21.8	21.8	<10.0	<30.0	16.0
SP4	10/28/22	Surf	Excavated	<0.050	<b>257</b>	2,500	9,360	11,860	1,420	<b>13,280</b>	16.0
	11/4/22	4	In-Situ	<0.050	<0.300	<10.0	28.8	28.8	<10.0	<30.0	16.0
SP5	10/28/22	Surf	Excavated	<0.200	<b>103</b>	1,000	9,600	10,600	1,580	<b>12,180</b>	<16.0
	11/4/22	4	Excavated	<0.050	0.408	<10.0	230	230	52.9	<b>282.9</b>	16.0
	11/14/22	4.5	Excavated	<0.050	<0.300	<10.0	102	102	20.9	<b>122.9</b>	48.0
	11/21/22	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SP6	10/28/22	Surf	Excavated	<0.200	<b>65.3</b>	970	11,100	12,070	1,880	<b>13,950</b>	<16.0
	11/4/22	4	Excavated	<0.050	1.69	13.7	913	926.7	172	<b>1,098.7</b>	80.0
	11/14/22	4.5	In-Situ	<0.050	<0.300	<10.0	25.4	25.4	<10.0	<30.0	48.0
SP7	10/28/22	Surf	Excavated	<0.500	<b>203</b>	1,910	11,700	13,610	1,950	<b>15,560</b>	<16.0
	11/4/22	4	Excavated	<0.050	1.03	22.7	945	967.7	184	<b>1,151.7</b>	16.0
	11/14/22	4.5	Excavated	<0.050	<0.300	<10.0	242	242	46.2	<b>288.2</b>	48.0
	11/21/22	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SP8	10/28/22	Surf	Excavated	<b>17.0</b>	<b>403</b>	3,160	13,100	16,260	2,280	<b>18,540</b>	<16.0
	11/4/22	4	Excavated	<0.050	0.741	13.4	621	634.4	121	<b>755.4</b>	16.0
	11/14/22	4.5	In-Situ	<0.050	<0.300	<10.0	52.2	52.2	13.7	65.9	48.0
SP9	10/28/22	Surf	Excavated	<b>16.4</b>	<b>326</b>	2,660	14,900	17,560	2,650	<b>20,210</b>	16.0
	11/4/22	4	Excavated	<0.050	<0.300	<10.0	68.4	68.4	28.5	96.9	16.0
	11/14/22	4.5	In-Situ	<0.050	<0.300	<10.0	18.6	<20.0	<10.0	<30.0	32.0
SP10	10/28/22	Surf	Excavated	<0.050	4.42	65.7	2,290	2,356	508	<b>2,864</b>	<16.0
	11/4/22	4	In-Situ	<0.050	<0.300	<10.0	12.0	<20.0	<10.0	<30.0	48.0
HZ1	10/28/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
	10/28/22	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
HZ2	10/28/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
	10/28/22	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
HZ3	10/28/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
	10/28/22	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
HZ4	10/28/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
	10/28/22	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
HZ5	10/28/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
	10/28/22	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
HZ6	10/28/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
	10/28/22	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
HZ7	10/28/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
	10/28/22	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
HZ8	10/28/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
	10/28/22	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
HZ9	10/28/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
	10/28/22	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
HZ10	10/28/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
	10/28/22	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
<b>NMOCD Closure Criteria</b>				<b>10</b>	<b>50</b>	-	-	<b>1,000</b>	-	<b>2,500</b>	<b>10,000</b>

**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**  
**Frontier Field Services, LLC**  
**Caviness 6"**  
**NMOCD Ref. #: nAPP2229930971**

Sample ID	Date	Depth (ft)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	DRO C <sub>10</sub> -C <sub>28</sub> (mg/kg)	GRO + DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	ORO C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
FL1	11/23/22	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL2	11/23/22	10	In-Situ	<0.050	<0.300	<10.0	74.8	74.8	14.9	89.7	192
FL3	11/23/22	4	In-Situ	<0.050	<0.300	<10.0	46.5	46.5	<10.0	46.5	64.0
FL4	11/23/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL5	11/23/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL6	11/23/22	4	In-Situ	<0.050	<0.300	<10.0	51.5	51.5	<10.0	51.5	16.0
FL7	11/23/22	4	Excavated	<0.050	<0.300	<10.0	107	107	10.4	<b>117.4</b>	32.0
FL7b	12/2/22	4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL8	11/23/22	4	Excavated	<0.050	<0.300	<10.0	216	216	36	<b>252</b>	<16.0
FL8b	12/2/22	4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
FL9	11/23/22	4	In-Situ	<0.050	<0.300	<10.0	73.5	73.5	11.6	85.1	32.0
FL10	11/23/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL11	11/23/22	4	In-Situ	<0.050	<0.300	<10.0	52.5	52.5	<10.0	52.5	32.0
FL12	11/23/22	4	Excavated	<0.050	<0.300	<10.0	204	204	39.0	<b>243</b>	16.0
FL12b	12/2/22	4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL13	11/23/22	4	In-Situ	<0.050	<0.300	<10.0	11.4	<20.0	<10.0	<30.0	32.0
FL14	11/23/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL15	11/23/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL16	11/23/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL17	11/23/22	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL18	11/23/22	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL19	11/23/22	4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL20	11/23/22	4.5	In-Situ	<0.050	<0.300	<10.0	11.8	<20.0	<10.0	<30.0	16.0
FL21	11/23/22	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL22	11/23/22	4.5	In-Situ	<0.050	<0.300	<10.0	21.6	21.6	<10.0	<30.0	16.0
FL23	11/23/22	4.5	In-Situ	<0.050	<0.300	<10.0	66.6	66.6	<10.0	66.6	32.0
FL24	11/23/22	4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL25	11/23/22	4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL26	11/23/22	4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL27	11/23/22	4	In-Situ	<0.050	<0.300	<10.0	12.2	<20.0	<10.0	<30.0	<16.0
SW1	11/23/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW2	11/23/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW3	11/23/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW4	11/23/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW5	11/23/22	2	In-Situ	<0.050	<0.300	<10.0	25.6	25.6	<10.0	<30.0	<16.0
SW6	11/23/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW7	11/23/22	2	In-Situ	<0.050	<0.300	<10.0	84	84	<10.0	<30.0	<16.0
SW8	11/23/22	2	Excavated	<0.050	0.397	24.0	1,990	2,014	359	<b>2,373</b>	<16.0
SW8b	12/2/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW9	11/23/22	2	In-Situ	<0.050	<0.300	<10.0	25.3	25.3	<10.0	<30.0	<16.0
SW10	11/23/22	2	Excavated	<0.050	<0.300	<10.0	159	159	78.8	<b>237.8</b>	<16.0
SW10b	12/2/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SW11	11/23/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	15.9	<30.0	16.0
SW12	11/23/22	2	Excavated	<0.050	<0.300	<10.0	127	127	20.3	<b>147.3</b>	<16.0
SW12b	12/2/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112.0
SW13	11/23/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW14	11/23/22	2	In-Situ	<0.050	<0.300	<10.0	10.4	<20.0	<10.0	<30.0	80.0
SW15	11/23/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW16	11/23/22	2	Excavated	<0.050	<0.300	<10.0	79.9	79.9	13.4	93.3	16.0
SW16b	12/2/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
<b>NMOCD Closure Criteria</b>				<b>10</b>	<b>50</b>	<b>-</b>	<b>-</b>	<b>1,000</b>	<b>-</b>	<b>2,500</b>	<b>10,000</b>

**NOTES:**

- = Sample not analyzed for that constituent.

**Bold** text denotes a concentration that exceeds the NMOCD Closure Criteria



## **Attachment I**

### **Karst and Wetland Maps**

**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

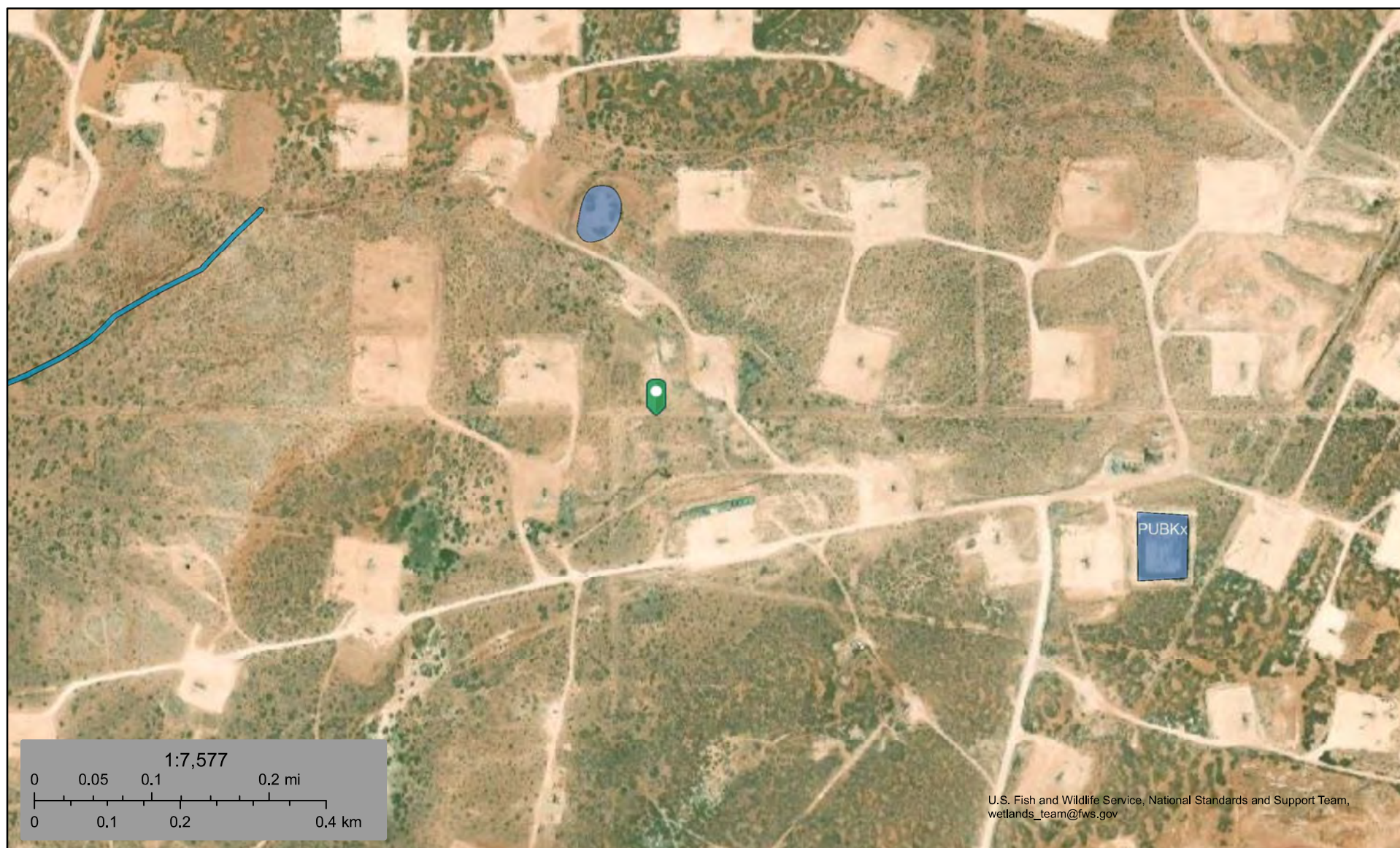
Discontinuous evaporite rocks

Mixed carbonate and evaporite rocks





## Skelly Inlet 18"



October 7, 2022

**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:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Sent:** Monday, November 21, 2022 10:51 AM  
**To:** Daniel Dominguez  
**Cc:** Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD  
**Subject:** RE: [EXTERNAL] Closure Samples

Please be aware that notification requirements are **two business days**, per rule. Please proceed on your schedule. Also, please include this, and all correspondence, in the closure report to insure inclusion in the project file

**Jocelyn Harimon** • Environmental Specialist  
Environmental Bureau  
EMNRD - Oil Conservation Division  
1220 South St. Francis Drive | Santa Fe, NM 87505  
(505)469-2821 | [Jocelyn.Harimon@emnrd.nm.gov](mailto:Jocelyn.Harimon@emnrd.nm.gov)  
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



---

**From:** Daniel Dominguez <ddominguez@hungry-horse.com>  
**Sent:** Monday, November 21, 2022 10:18 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 collect closure samples at the Caviness 6" (nAPP2229930971) on Wednesday, November 23, 2022, at 7 am.  
This is our 48 hour notice.

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

**Daniel Dominguez**

---

**From:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>  
**Sent:** Wednesday, November 30, 2022 2:56 PM  
**To:** Daniel Dominguez  
**Cc:** Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD  
**Subject:** RE: [EXTERNAL] Closure Samples

Please be aware that notification requirements are **two business days**, per rule. Please proceed on your schedule. Also, please include this, and all correspondence, in the closure report to insure inclusion in the project file.

JH

**Jocelyn Harimon** • Environmental Specialist  
Environmental Bureau  
EMNRD - Oil Conservation Division  
1220 South St. Francis Drive | Santa Fe, NM 87505  
(505)469-2821 | [Jocelyn.Harimon@emnrd.nm.gov](mailto:Jocelyn.Harimon@emnrd.nm.gov)  
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



---

**From:** Daniel Dominguez <ddominguez@hungry-horse.com>  
**Sent:** Wednesday, November 30, 2022 1:13 PM  
**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 additional collect closure samples at the Caviness 6" (nAPP2229930971) on Friday, December 2, 2022, at 1 pm.  
This is our 48 hour notice.

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



**Daniel Dominguez**

---

**From:** Amber Groves <AGroves@durangomidstream.com>  
**Sent:** Wednesday, February 1, 2023 9:25 AM  
**To:** Daniel Dominguez  
**Subject:** FW: [EXTERNAL] nAPP2229930971 Mal 7-2 Caviness 6" Extension Request

---

**From:** Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>  
**Sent:** Monday, January 23, 2023 1:24 PM  
**To:** Amber Groves <AGroves@durangomidstream.com>  
**Cc:** Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>  
**Subject:** RE: [EXTERNAL] nAPP2229930971 Mal 7-2 Caviness 6" Extension Request

Hello Amber

OCD approves a request for a 90-day extension to 04/24/2023 to submit a closure report. Please 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.

Thanks,  
Jennifer Nobui

---

**From:** Amber Groves <[AGroves@durangomidstream.com](mailto:AGroves@durangomidstream.com)>  
**Sent:** Monday, January 23, 2023 9:06 AM  
**To:** Hamlet, Robert, EMNRD <[Robert.Hamlet@emnrd.nm.gov](mailto:Robert.Hamlet@emnrd.nm.gov)>; Harimon, Jocelyn, EMNRD <[Jocelyn.Harimon@emnrd.nm.gov](mailto:Jocelyn.Harimon@emnrd.nm.gov)>; Nobui, Jennifer, EMNRD <[Jennifer.Nobui@emnrd.nm.gov](mailto:Jennifer.Nobui@emnrd.nm.gov)>; Velez, Nelson, EMNRD <[Nelson.Velez@emnrd.nm.gov](mailto:Nelson.Velez@emnrd.nm.gov)>  
**Cc:** Bratcher, Michael, EMNRD <[mike.bratcher@emnrd.nm.gov](mailto:mike.bratcher@emnrd.nm.gov)>; Chad Frost <[Cfrost@durangomidstream.com](mailto:Cfrost@durangomidstream.com)>; Daniel Dominguez <[ddominguez@hungry-horse.com](mailto:ddominguez@hungry-horse.com)>  
**Subject:** [EXTERNAL] nAPP2229930971 Mal 7-2 Caviness 6" Extension Request

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

Good Morning,

Frontier Field Services would like to respectfully request a 90 day extension on nAPP2229930971 Mal 7-2 Caviness 6". The release area has been excavated and a chemistry table was sent to the landowner for backfill approval on December 13, 2022, however we have been unable to get a response. Please feel free to give me a call with any questions.

Thank you,

**Amber Groves | Sr. Environmental Specialist**  
**Mobile 575.703.7992**



[https://www.durangomidstream.com/  
agroves@durangomidstream.com](https://www.durangomidstream.com/agroves@durangomidstream.com)

**CONFIDENTIALITY NOTICE:**

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## **Attachment III Site Photographs**

## Photographs





# Photographs



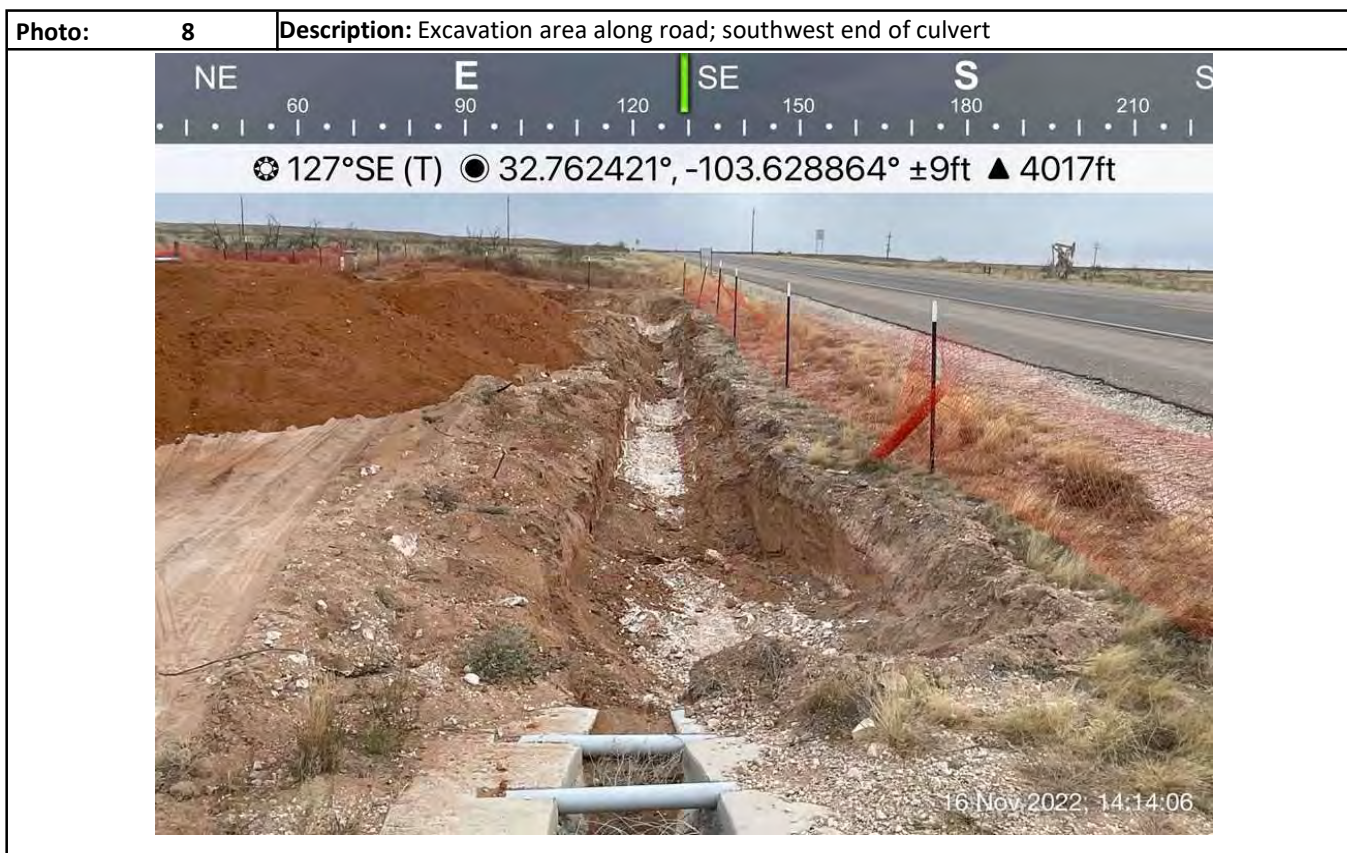
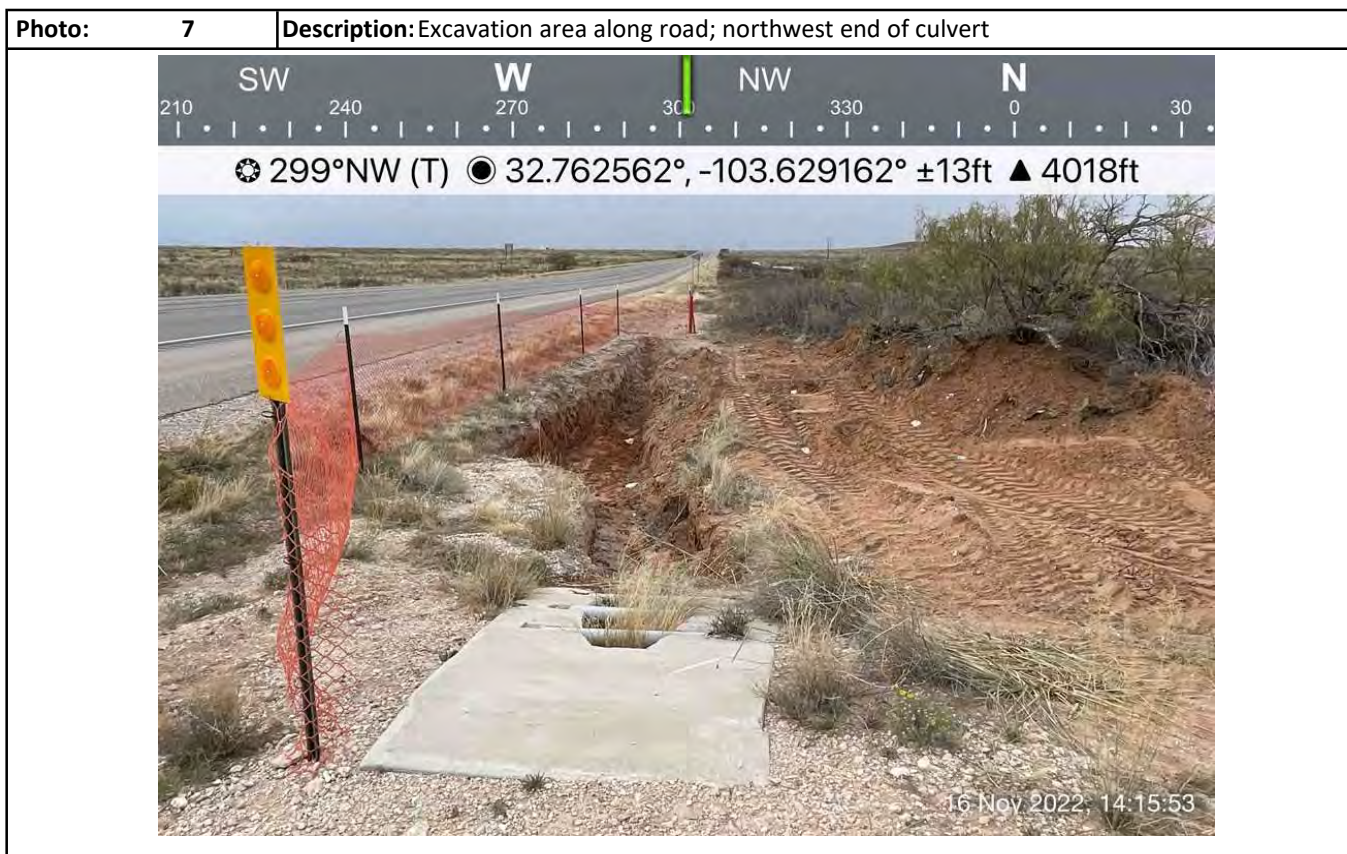


Photographs



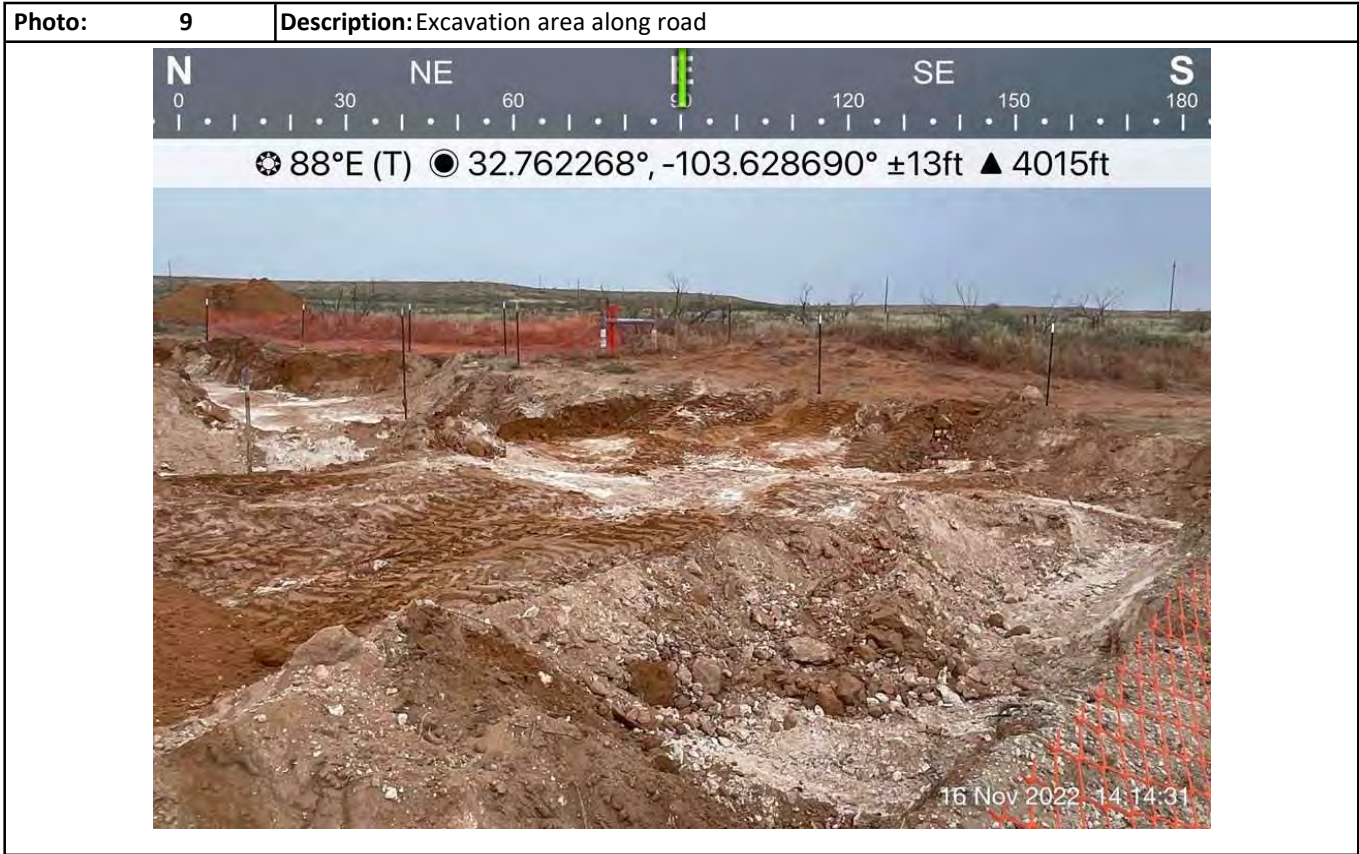


## Photographs



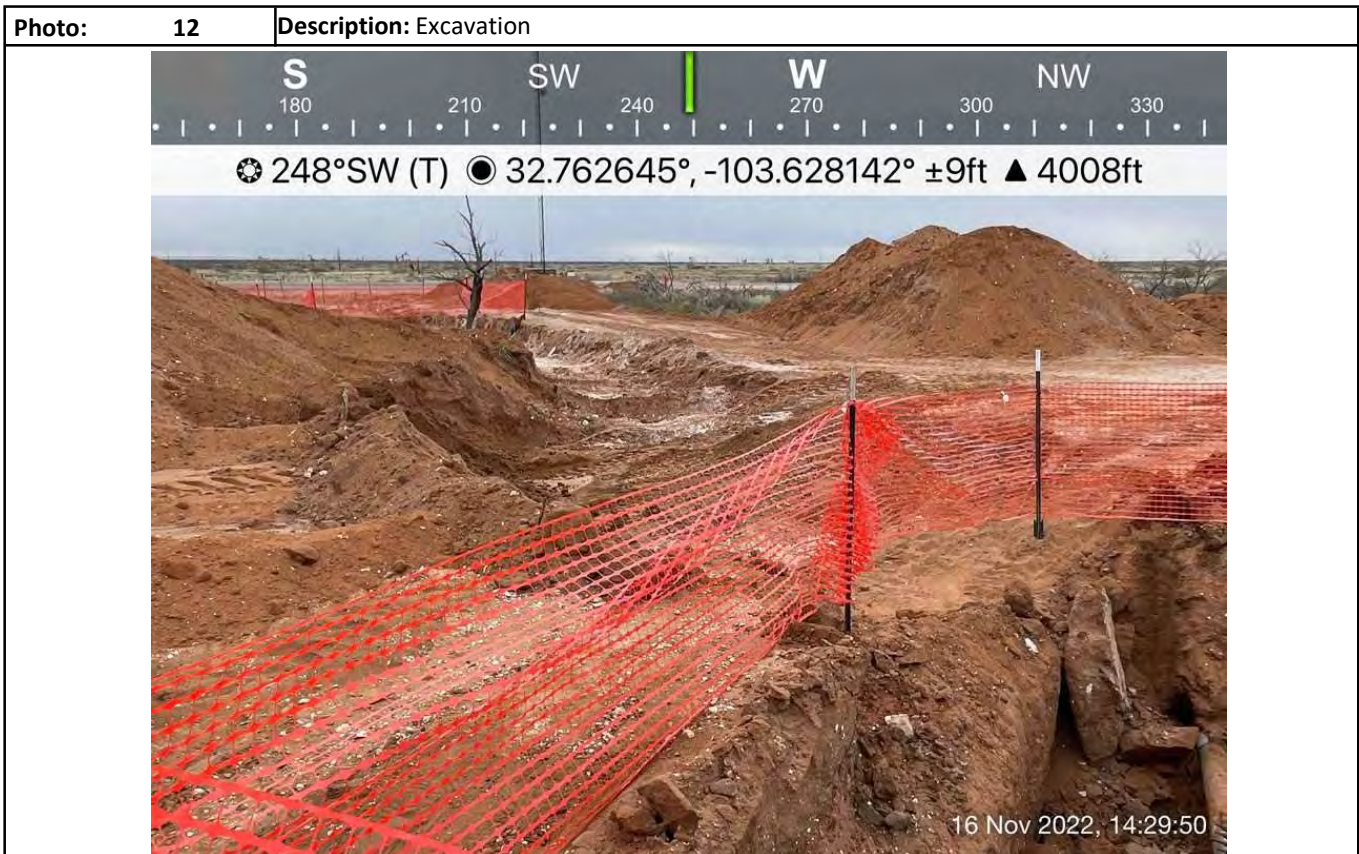
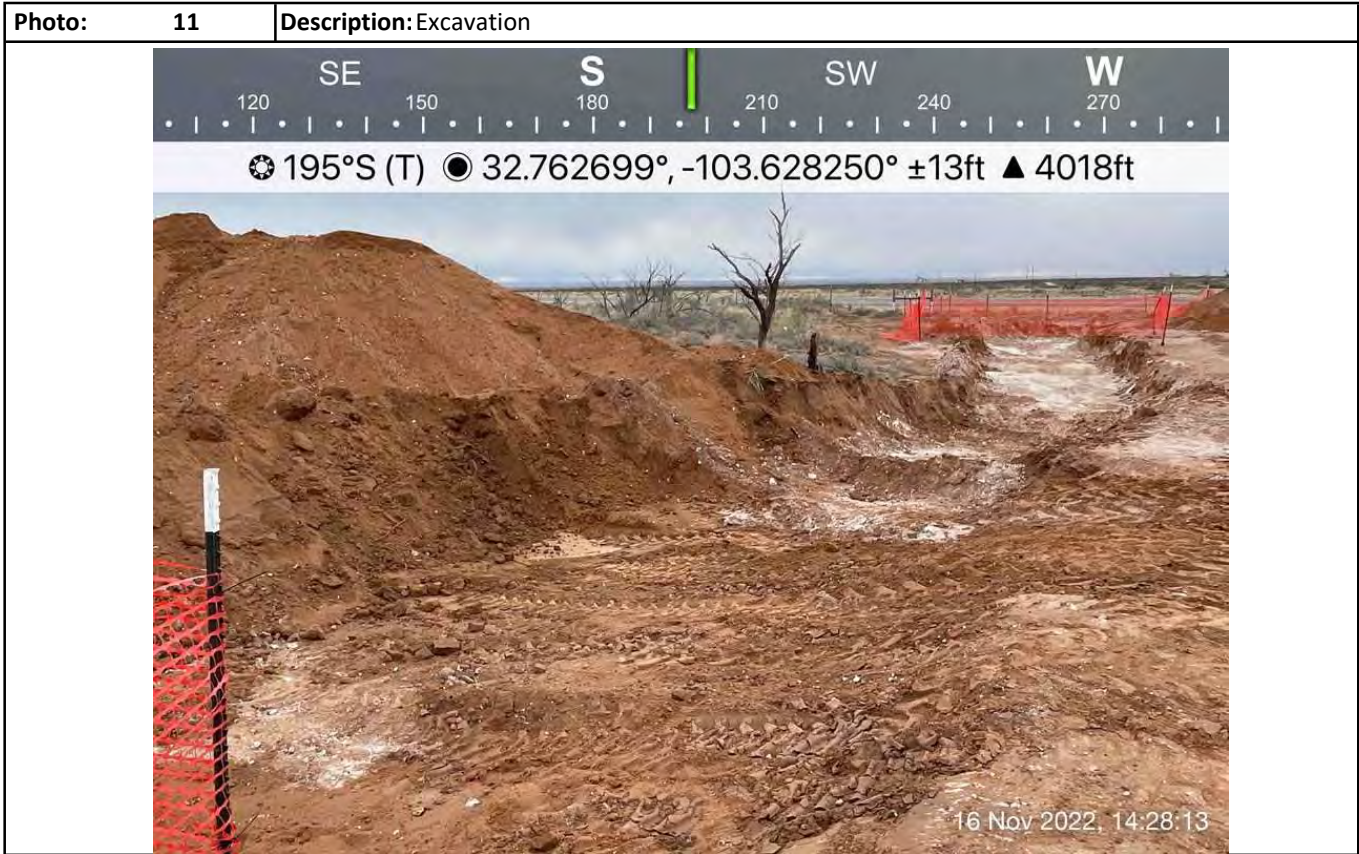


Photographs





Photographs



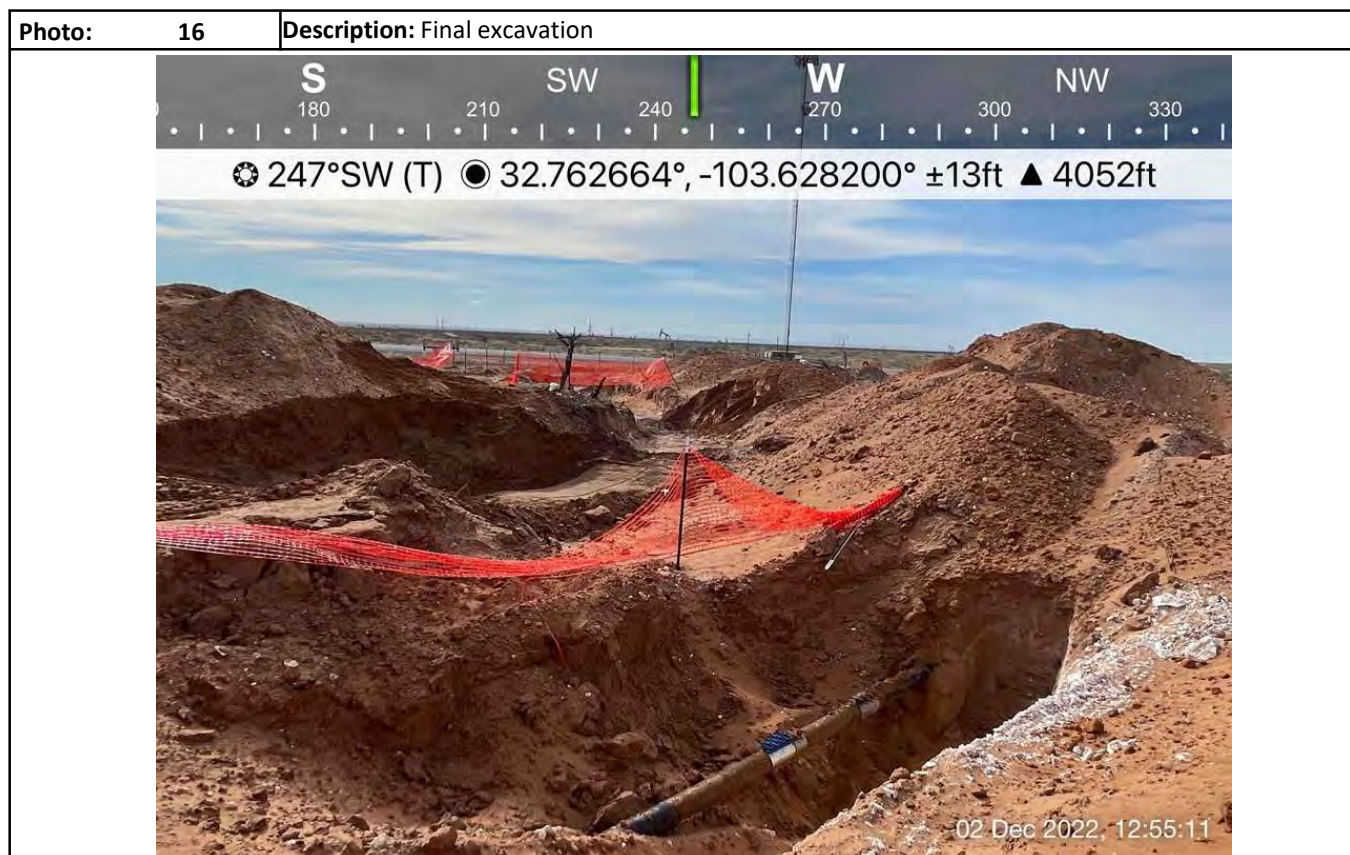


# Photographs







## Photographs





## Photographs

Photo: 17	Description: Backfilling
	
Photo: 18	Description: Backfilling
	

## Photographs





## Photographs



## Photographs





## Photographs



## **Attachment IV**

### **Depth to Groundwater**





## New Mexico Office of the State Engineer

# Wells with Well Log Information

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

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

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

(NAD83 UTM in meters)

(in feet)

POD																			q q q								Log File				Depth		Depth		Licens	
POD Number	Code	Subbasin	County	Source	6416 4	Sec	Tw	Rng	X	Y	Distance	Start Date	Finish Date	Date	Well	Water	Driller	Number																		
<a href="#">CP 00072 POD5</a>		CP	LE	Shallow	2	1	4	11	18S	33E	628219	3625573		365	12/01/2014	12/01/2014	12/15/2014	100	64	CALEB CURRY	1632															
<a href="#">CP 00072 POD6</a>		CP	LE	Shallow	2	4	4	11	18S	33E	628603	3625179		636	12/01/2014	12/01/2014	12/15/2014	100	61	CALEB CURRY	1632															

**Record Count:** 2

### UTMNA83 Radius Search (in meters):

**Easting (X):** 628499.67

**Northing (Y):** 3625807.39

**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.

10/28/22 7:31 AM

WELLS WITH WELL LOG INFORMATION




# New Mexico Office of the State Engineer

## Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

<b>Well Tag</b>	<b>POD Number</b>	<b>Q64 Q16 Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
NA	CP 00072 POD5	2 1 4	11	18S	33E	628219	3625573 

x

**Driller License:** 1632      **Driller Company:** HOPPER PUMP & DRILLING, INC.

**Driller Name:** CALEB CURRY

<b>Drill Start Date:</b> 12/01/2014	<b>Drill Finish Date:</b> 12/01/2014	<b>Plug Date:</b>
<b>Log File Date:</b> 12/15/2014	<b>PCW Rcv Date:</b>	<b>Source:</b> Shallow
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b> 30 GPM
<b>Casing Size:</b> 5.00	<b>Depth Well:</b> 100 feet	<b>Depth Water:</b> 64 feet

x

<b>Water Bearing Stratifications:</b>	<b>Top</b>	<b>Bottom</b>	<b>Description</b>
	40	95	Sandstone/Gravel/Conglomerate

x

<b>Casing Perforations:</b>	<b>Top</b>	<b>Bottom</b>
	60	100

x

<b>Meter Number:</b> 17846	<b>Meter Make:</b> MASTERMETER
<b>Meter Serial Number:</b> 8348400	<b>Meter Multiplier:</b> 1.0000
<b>Number of Dials:</b> 8	<b>Meter Type:</b> Diversion
<b>Unit of Measure:</b> Gallons	<b>Return Flow Percent:</b>
<b>Usage Multiplier:</b>	<b>Reading Frequency:</b> Monthly

### Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
10/01/2017	2017	348704	A	RPT		0
12/01/2017	2017	357126	A	RPT		0.026
01/01/2018	2017	522561	A	RPT		0.508
02/01/2018	2018	524328	A	RPT		0.005
03/01/2018	2018	524869	A	RPT		0.002
04/01/2018	2018	525002	A	RPT		0
05/01/2018	2018	525800	A	RPT		0.002
06/01/2018	2018	526102	A	RPT		0.001
07/01/2018	2018	526807	A	RPT		0.002
08/01/2018	2018	527037	A	RPT		0.001
09/01/2018	2018	527563	A	RPT		0.002
10/01/2018	2018	541562	A	RPT		0.043
11/01/2018	2018	720541	A	RPT		0.549
12/01/2018	2018	780562	A	RPT		0.184
01/01/2019	2018	820567	A	RPT		0.123
02/01/2019	2019	825547	A	RPT		0.015
06/01/2019	2019	835674	A	RPT		0.031
07/01/2019	2019	852634	A	RPT		0.052
08/01/2019	2019	858654	A	RPT		0.018
09/01/2019	2019	865147	A	RPT		0.020

10/01/2019	2019	960582	A	RPT	0.293
11/01/2019	2019	985104	A	RPT	0.075
12/01/2019	2019	999658	A	RPT	0.045
01/01/2020	2019	1095410	A	RPT	0.294
02/01/2020	2020	1155963	A	RPT	0.186
03/01/2020	2020	1195841	A	RPT	0.122
04/01/2020	2020	1225874	A	RPT	0.092
05/01/2020	2020	1274512	A	RPT	0.149
06/01/2020	2020	1302569	A	RPT	0.086
07/01/2020	2020	1348745	A	RPT	0.142
09/01/2020	2020	1425874	A	RPT	0.237
10/01/2020	2020	1452589	A	RPT	0.082
11/01/2020	2020	1475842	A	RPT	0.071
12/01/2020	2020	1478541	A	WEB	0.008 X
01/01/2021	2020	1478551	A	RPT	0
02/01/2021	2021	1478551	A	ad	0
03/01/2021	2021	1479652	A	ad	0.003
04/01/2021	2021	1485620	A	ad	0.018
05/01/2021	2021	1501263	A	ad	0.048
06/01/2021	2021	1504251	A	ad	0.009
08/02/2021	2021	1521452	A	ad	0.053
09/01/2021	2021	587652	R	ad Meter Reading Correction	-2.866
10/02/2021	2021	643985	A	ad	0.173
11/03/2021	2021	694285	A	ad	0.154
12/01/2021	2021	769458	A	ad	0.231
01/01/2022	2022	815985	A	ad	0.143
02/03/2022	2022	815985	A	ad	0
04/03/2022	2022	897658	A	ad	0.251

x

**YTD Meter Amounts:	Year	Amount
	2017	0.534
	2018	0.914
	2019	0.843
	2020	1.175
	2021	-2.177
	2022	0.394

x

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.

10/28/22 7:38 AM

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

<b>Well Tag</b>	<b>POD Number</b>	<b>Q64</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tws</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
NA	CP 00072 POD6	2	4	4	11	18S	33E	628603	3625179



**Driller License:** 1632 **Driller Company:** HOPPER PUMP & DRILLING, INC.

**Driller Name:** CALEB CURRY

<b>Drill Start Date:</b> 12/01/2014	<b>Drill Finish Date:</b> 12/01/2014	<b>Plug Date:</b>
<b>Log File Date:</b> 12/15/2014	<b>PCW Rcv Date:</b>	<b>Source:</b> Shallow
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b> 80 GPM
<b>Casing Size:</b> 5.00	<b>Depth Well:</b> 100 feet	<b>Depth Water:</b> 61 feet

### Water Bearing Stratifications:

Top	Bottom	Description
65	80	Sandstone/Gravel/Conglomerate

### Casing Perforations:

Top	Bottom
60	100

<b>Meter Number:</b> 17847	<b>Meter Make:</b> MASTERMETER
<b>Meter Serial Number:</b> 8423252	<b>Meter Multiplier:</b> 100.0000
<b>Number of Dials:</b> 6	<b>Meter Type:</b> Diversion
<b>Unit of Measure:</b> Gallons	<b>Return Flow Percent:</b>
<b>Usage Multiplier:</b>	<b>Reading Frequency:</b> Monthly

### Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
10/01/2017	2017	120029	A	RPT		0
12/01/2017	2017	121779	A	RPT		0.537
01/01/2018	2017	122227	A	RPT		0.137
02/01/2018	2018	122231	A	RPT		0.001
03/01/2018	2018	122231	A	RPT		0
04/01/2018	2018	122261	A	RPT		0.009
05/01/2018	2018	124443	A	RPT		0.670
06/01/2018	2018	124783	A	RPT		0.104
07/01/2018	2018	125371	A	RPT		0.180
08/01/2018	2018	126093	A	RPT		0.222
09/01/2018	2018	126094	A	RPT		0
10/01/2018	2018	126095	A	RPT		0
11/01/2018	2018	133695	A	RPT		2.332
12/01/2018	2018	145325	A	RPT		3.569
01/01/2019	2018	151256	A	RPT		1.820
02/01/2019	2019	160389	A	RPT		2.803
06/01/2019	2019	168524	A	RPT		2.497
07/01/2019	2019	170174	A	RPT		0.506
08/01/2019	2019	175258	A	RPT		1.560
09/01/2019	2019	186415	A	RPT		3.424

10/01/2019	2019	186415	A	RPT	0
11/01/2019	2019	186415	A	RPT	0
12/01/2019	2019	186415	A	RPT	0
01/01/2020	2019	186415	A	RPT	0
02/01/2020	2020	186415	A	RPT	0
03/01/2020	2020	186415	A	RPT	0
04/01/2020	2020	190541	A	RPT	1.266
05/01/2020	2020	196254	A	RPT	1.753
07/01/2020	2020	204582	A	RPT	2.556
08/01/2020	2020	208547	A	RPT	1.217
09/01/2020	2020	211569	A	RPT	0.927
11/01/2020	2020	218541	A	RPT	2.140
12/02/2020	2020	219832	A	WEB	0.396 X
01/01/2021	2020	221569	A	WEB	0.533 X
04/01/2021	2021	229584	A	ad	2.460
05/01/2021	2021	232563	A	ad	0.914
06/01/2021	2021	235874	A	ad	1.016
09/01/2021	2021	248562	A	ad	3.894
10/02/2021	2021	255986	A	ad	2.278
11/01/2021	2021	264587	A	ad	2.640
12/01/2021	2021	270458	A	ad	1.802
01/01/2022	2022	284254	A	ad	4.234
02/03/2022	2022	284254	A	ad	0
03/01/2022	2022	295187	A	ad	3.355
04/01/2022	2022	304258	A	ad	2.784
05/01/2022	2022	312569	A	ad	2.551
06/02/2022	2022	318459	A	ad	1.808

x

**YTD Meter Amounts:	Year	Amount
	2017	0.674
	2018	8.907
	2019	10.790
	2020	10.788
	2021	15.004
	2022	14.732

x

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10/28/22 7:40 AM

POINT OF DIVERSION SUMMARY

## **Attachment V**

### **Field Data**

## Sample Log

Date: 10/28/22

Latitude: 32.76265

Longitude: -103.62815

Sampler: Eli Dominguez

[illegible]

Test Trench = TT1 @ ##

**Resamples= SP1b @ 5' or SW #1b**

**Stockpile = Stockpile #1**



**Hungry Horse, LLC**

Date: 10/31/22

Project: Caviness 6"

Latitude: 32.76265

Longitude: -103.62815

Sampler: Eli Dominguez

[illegible]

Test Trench = TT1 @ ##

Resamples= SP1b @ 5' or SW #1b

**Stockpile = Stockpile #1**

## Sample Log

Sampler: Eli Dominguez

**Stockpile = Stockpile #1**

**Hungry Horse, LLC**

## Sample Log

Date: 11/4/22

Project: Caviness 6"

Latitude: 32.76265

Longitude: -103.62815

Sampler: Eli Dominguez

[illegible]

**Sample Point = SP1 @ ## etc**

Floor = FL1 etc

Sidewall = SW1 etc

Horizontal = HZ1 etc

Refusal = SP1 @ 4'-R

### GPS Sample Points, Center of Comp Areas

Test Trench = TT1 @ ##

Resamples= SP1b @ 5' or SW #1b

**Stockpile = Stockpile #1**





## **Attachment VI**

### **Laboratory Analytical Reports**



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

---

November 07, 2022

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: CAVINESS 6"

Enclosed are the results of analyses for samples received by the laboratory on 10/31/22 14:27.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	10/31/2022	Sampling Date:	10/28/2022
Reported:	11/07/2022	Sampling Type:	Soil
Project Name:	CAVINESS 6"	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL/H SEC 11 T18S - R33E		

**Sample ID: HZ1 - SURF (H225118-01)**

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	11/04/2022	ND	1.89	94.6	2.00	2.67		
Toluene*	<0.050	0.050	11/04/2022	ND	2.03	101	2.00	1.76		
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	1.99	99.6	2.00	0.813		
Total Xylenes*	<0.150	0.150	11/04/2022	ND	6.04	101	6.00	0.250		
Total BTEX	<0.300	0.300	11/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.2 % 69.9-140

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	11/01/2022	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	11/02/2022	ND	201	101	200	6.46	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	206	103	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 111 % 45.3-161

Surrogate: 1-Chlorooctadecane 133 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/31/2022  
 Reported: 11/07/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 10/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: HZ1 - 1' (H225118-02)**

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	11/04/2022	ND	1.89	94.6	2.00	2.67	
Toluene*	<0.050	0.050	11/04/2022	ND	2.03	101	2.00	1.76	
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	1.99	99.6	2.00	0.813	
Total Xylenes*	<0.150	0.150	11/04/2022	ND	6.04	101	6.00	0.250	
Total BTX	<0.300	0.300	11/04/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.5 % 69.9-140

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	11/01/2022	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	11/02/2022	ND	201	101	200	6.46	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	206	103	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 105 % 45.3-161

Surrogate: 1-Chlorooctadecane 127 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/31/2022  
 Reported: 11/07/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 10/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: HZ2 - SURF (H225118-03)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/04/2022	ND	1.89	94.6	2.00	2.67		
Toluene*	<0.050	0.050	11/04/2022	ND	2.03	101	2.00	1.76		
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	1.99	99.6	2.00	0.813		
Total Xylenes*	<0.150	0.150	11/04/2022	ND	6.04	101	6.00	0.250		
Total BTEx	<0.300	0.300	11/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.9 % 69.9-140

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	11/01/2022	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	11/02/2022	ND	201	101	200	6.46	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	206	103	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 114 % 45.3-161

Surrogate: 1-Chlorooctadecane 138 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/31/2022  
 Reported: 11/07/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 10/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: HZ2 - 1' (H225118-04)**

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	11/04/2022	ND	1.89	94.6	2.00	2.67		
Toluene*	<0.050	0.050	11/04/2022	ND	2.03	101	2.00	1.76		
Ethylbenzene*	<0.050	0.050	11/04/2022	ND	1.99	99.6	2.00	0.813		
Total Xylenes*	<0.150	0.150	11/04/2022	ND	6.04	101	6.00	0.250		
Total BTX	<0.300	0.300	11/04/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.4 % 69.9-140

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	11/01/2022	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	11/02/2022	ND	201	101	200	6.46	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	206	103	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 115 % 45.3-161

Surrogate: 1-Chlorooctadecane 137 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/31/2022  
 Reported: 11/07/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 10/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: HZ3 - SURF (H225118-05)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/06/2022	ND	1.90	94.9	2.00	3.85		
Toluene*	<0.050	0.050	11/06/2022	ND	2.01	100	2.00	2.78		
Ethylbenzene*	<0.050	0.050	11/06/2022	ND	1.97	98.3	2.00	0.726		
Total Xylenes*	<0.150	0.150	11/06/2022	ND	5.98	99.7	6.00	0.176		
Total BTEx	<0.300	0.300	11/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.8 % 69.9-140

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	11/01/2022	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	11/02/2022	ND	201	101	200	6.46	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	206	103	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 112 % 45.3-161

Surrogate: 1-Chlorooctadecane 130 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 10/31/2022  
 Reported: 11/07/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 10/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: HZ3 - 1' (H225118-06)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/06/2022	ND	1.90	94.9	2.00	3.85		
Toluene*	<0.050	0.050	11/06/2022	ND	2.01	100	2.00	2.78		
Ethylbenzene*	<0.050	0.050	11/06/2022	ND	1.97	98.3	2.00	0.726		
Total Xylenes*	<0.150	0.150	11/06/2022	ND	5.98	99.7	6.00	0.176		
Total BTEX	<0.300	0.300	11/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.6 % 69.9-140

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	11/02/2022	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	11/02/2022	ND	201	101	200	6.46	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	206	103	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 115 % 45.3-161

Surrogate: 1-Chlorooctadecane 136 % 46.3-178

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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: 10/31/2022  
 Reported: 11/07/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 10/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: HZ4 - SURF (H225118-07)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/06/2022	ND	1.90	94.9	2.00	3.85		
Toluene*	<0.050	0.050	11/06/2022	ND	2.01	100	2.00	2.78		
Ethylbenzene*	<0.050	0.050	11/06/2022	ND	1.97	98.3	2.00	0.726		
Total Xylenes*	<0.150	0.150	11/06/2022	ND	5.98	99.7	6.00	0.176		
Total BTEx	<0.300	0.300	11/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 85.6 % 69.9-140

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	11/02/2022	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	11/02/2022	ND	201	101	200	6.46	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	206	103	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 123 % 45.3-161

Surrogate: 1-Chlorooctadecane 149 % 46.3-178

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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: 10/31/2022  
 Reported: 11/07/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 10/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: HZ4 - 1' (H225118-08)**

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	11/06/2022	ND	1.90	94.9	2.00	3.85	
Toluene*	<0.050	0.050	11/06/2022	ND	2.01	100	2.00	2.78	
Ethylbenzene*	<0.050	0.050	11/06/2022	ND	1.97	98.3	2.00	0.726	
Total Xylenes*	<0.150	0.150	11/06/2022	ND	5.98	99.7	6.00	0.176	
Total BTX	<0.300	0.300	11/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 85.4 % 69.9-140

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	11/02/2022	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	11/02/2022	ND	201	101	200	6.46	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	206	103	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 114 % 45.3-161

Surrogate: 1-Chlorooctadecane 134 % 46.3-178

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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: 10/31/2022  
 Reported: 11/07/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 10/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: HZ5 - SURF (H225118-09)**

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	11/06/2022	ND	1.90	94.9	2.00	3.85		
Toluene*	<0.050	0.050	11/06/2022	ND	2.01	100	2.00	2.78		
Ethylbenzene*	<0.050	0.050	11/06/2022	ND	1.97	98.3	2.00	0.726		
Total Xylenes*	<0.150	0.150	11/06/2022	ND	5.98	99.7	6.00	0.176		
Total BTEx	<0.300	0.300	11/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.1 % 69.9-140

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	11/02/2022	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	11/02/2022	ND	201	101	200	6.46	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	206	103	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 125 % 45.3-161

Surrogate: 1-Chlorooctadecane 148 % 46.3-178

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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: 10/31/2022  
 Reported: 11/07/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 10/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: HZ5 - 1' (H225118-10)**

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	11/06/2022	ND	1.90	94.9	2.00	3.85		
Toluene*	<0.050	0.050	11/06/2022	ND	2.01	100	2.00	2.78		
Ethylbenzene*	<0.050	0.050	11/06/2022	ND	1.97	98.3	2.00	0.726		
Total Xylenes*	<0.150	0.150	11/06/2022	ND	5.98	99.7	6.00	0.176		
Total BTEX	<0.300	0.300	11/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 84.9 % 69.9-140

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	11/02/2022	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	11/02/2022	ND	201	101	200	6.46	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	206	103	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 113 % 45.3-161

Surrogate: 1-Chlorooctadecane 133 % 46.3-178

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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: 10/31/2022  
 Reported: 11/07/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 10/31/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: HZ6 - SURF (H225118-11)**

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	11/06/2022	ND	1.90	94.9	2.00	3.85		
Toluene*	<0.050	0.050	11/06/2022	ND	2.01	100	2.00	2.78		
Ethylbenzene*	<0.050	0.050	11/06/2022	ND	1.97	98.3	2.00	0.726		
Total Xylenes*	<0.150	0.150	11/06/2022	ND	5.98	99.7	6.00	0.176		
Total BTEx	<0.300	0.300	11/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.6 % 69.9-140

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	11/02/2022	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	11/02/2022	ND	201	101	200	6.46	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	206	103	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 106 % 45.3-161

Surrogate: 1-Chlorooctadecane 127 % 46.3-178

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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: 10/31/2022  
 Reported: 11/07/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 10/31/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: HZ6 - 1' (H225118-12)**

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	11/06/2022	ND	1.90	94.9	2.00	3.85	
Toluene*	<0.050	0.050	11/06/2022	ND	2.01	100	2.00	2.78	
Ethylbenzene*	<0.050	0.050	11/06/2022	ND	1.97	98.3	2.00	0.726	
Total Xylenes*	<0.150	0.150	11/06/2022	ND	5.98	99.7	6.00	0.176	
Total BTEX	<0.300	0.300	11/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.1 % 69.9-140

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	11/02/2022	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	11/02/2022	ND	206	103	200	1.04	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	194	96.8	200	1.92	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 114 % 45.3-161

Surrogate: 1-Chlorooctadecane 124 % 46.3-178

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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: 10/31/2022  
 Reported: 11/07/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 10/31/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: HZ7 - SURF (H225118-13)**

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	11/06/2022	ND	1.90	94.9	2.00	3.85		
Toluene*	<0.050	0.050	11/06/2022	ND	2.01	100	2.00	2.78		
Ethylbenzene*	<0.050	0.050	11/06/2022	ND	1.97	98.3	2.00	0.726		
Total Xylenes*	<0.150	0.150	11/06/2022	ND	5.98	99.7	6.00	0.176		
Total BTX	<0.300	0.300	11/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.1 % 69.9-140

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	11/02/2022	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	11/02/2022	ND	206	103	200	1.04	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	194	96.8	200	1.92	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 107 % 45.3-161

Surrogate: 1-Chlorooctadecane 116 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/31/2022  
 Reported: 11/07/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 10/31/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: HZ7 - 1' (H225118-14)**

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	11/06/2022	ND	1.90	94.9	2.00	3.85	
Toluene*	<0.050	0.050	11/06/2022	ND	2.01	100	2.00	2.78	
Ethylbenzene*	<0.050	0.050	11/06/2022	ND	1.97	98.3	2.00	0.726	
Total Xylenes*	<0.150	0.150	11/06/2022	ND	5.98	99.7	6.00	0.176	
Total BTX	<0.300	0.300	11/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.5 % 69.9-140

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	11/02/2022	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	11/02/2022	ND	206	103	200	1.04	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	194	96.8	200	1.92	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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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: 10/31/2022  
 Reported: 11/07/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 10/31/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: HZ8 - SURF (H225118-15)**

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	11/06/2022	ND	1.90	94.9	2.00	3.85		
Toluene*	<0.050	0.050	11/06/2022	ND	2.01	100	2.00	2.78		
Ethylbenzene*	<0.050	0.050	11/06/2022	ND	1.97	98.3	2.00	0.726		
Total Xylenes*	<0.150	0.150	11/06/2022	ND	5.98	99.7	6.00	0.176		
Total BTEx	<0.300	0.300	11/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.0 % 69.9-140

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	11/02/2022	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	11/02/2022	ND	206	103	200	1.04	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	194	96.8	200	1.92	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 104 % 45.3-161

Surrogate: 1-Chlorooctadecane 114 % 46.3-178

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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: 10/31/2022  
 Reported: 11/07/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 10/31/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: HZ8 - 1' (H225118-16)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/06/2022	ND	1.90	94.9	2.00	3.85		
Toluene*	<0.050	0.050	11/06/2022	ND	2.01	100	2.00	2.78		
Ethylbenzene*	<0.050	0.050	11/06/2022	ND	1.97	98.3	2.00	0.726		
Total Xylenes*	<0.150	0.150	11/06/2022	ND	5.98	99.7	6.00	0.176		
Total BTEx	<0.300	0.300	11/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 85.4 % 69.9-140

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	11/02/2022	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	11/02/2022	ND	206	103	200	1.04	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	194	96.8	200	1.92	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 107 % 45.3-161

Surrogate: 1-Chlorooctadecane 124 % 46.3-178

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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: 10/31/2022  
 Reported: 11/07/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 10/31/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: HZ9 - SURF (H225118-17)**

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	11/06/2022	ND	1.90	94.9	2.00	3.85		
Toluene*	<0.050	0.050	11/06/2022	ND	2.01	100	2.00	2.78		
Ethylbenzene*	<0.050	0.050	11/06/2022	ND	1.97	98.3	2.00	0.726		
Total Xylenes*	<0.150	0.150	11/06/2022	ND	5.98	99.7	6.00	0.176		
Total BTEx	<0.300	0.300	11/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.8 % 69.9-140

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	11/02/2022	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	11/02/2022	ND	206	103	200	1.04	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	194	96.8	200	1.92	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 97.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

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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: 10/31/2022  
 Reported: 11/07/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 10/31/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: HZ9 - 1' (H225118-18)**

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	11/06/2022	ND	1.90	94.9	2.00	3.85		
Toluene*	<0.050	0.050	11/06/2022	ND	2.01	100	2.00	2.78		
Ethylbenzene*	<0.050	0.050	11/06/2022	ND	1.97	98.3	2.00	0.726		
Total Xylenes*	<0.150	0.150	11/06/2022	ND	5.98	99.7	6.00	0.176		
Total BTEx	<0.300	0.300	11/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 85.0 % 69.9-140

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	11/02/2022	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	11/02/2022	ND	206	103	200	1.04	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	194	96.8	200	1.92	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 115 % 46.3-178

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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: 10/31/2022  
 Reported: 11/07/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 10/31/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: HZ10 - SURF (H225118-19)**

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	11/06/2022	ND	1.90	94.9	2.00	3.85		
Toluene*	<0.050	0.050	11/06/2022	ND	2.01	100	2.00	2.78		
Ethylbenzene*	<0.050	0.050	11/06/2022	ND	1.97	98.3	2.00	0.726		
Total Xylenes*	<0.150	0.150	11/06/2022	ND	5.98	99.7	6.00	0.176		
Total BTEx	<0.300	0.300	11/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 86.6 % 69.9-140

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	11/02/2022	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	11/02/2022	ND	206	103	200	1.04	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	194	96.8	200	1.92	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 99.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

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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: 10/31/2022  
 Reported: 11/07/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 10/31/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: HZ10 - 1' (H225118-20)**

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	11/06/2022	ND	1.90	94.9	2.00	3.85		
Toluene*	<0.050	0.050	11/06/2022	ND	2.01	100	2.00	2.78		
Ethylbenzene*	<0.050	0.050	11/06/2022	ND	1.97	98.3	2.00	0.726		
Total Xylenes*	<0.150	0.150	11/06/2022	ND	5.98	99.7	6.00	0.176		
Total BTEx	<0.300	0.300	11/06/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.6 % 69.9-140

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	11/02/2022	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	11/02/2022	ND	206	103	200	1.04	
DRO >C10-C28*	<10.0	10.0	11/02/2022	ND	194	96.8	200	1.92	
EXT DRO >C28-C36	<10.0	10.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 109 % 45.3-161

Surrogate: 1-Chlorooctadecane 120 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





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### Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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: Frontier Field Services, LLC																					
Address: PO Box 1058		Attn: Amber Groves																					
City: Hobbs		Address: 47 Conoco Rd																					
State: NM		City: Maljamar																					
Zip: 88241		State: NM																					
Phone #: 575 393-3386		Zip: 88264																					
Fax #:		Phone #: 575-703-7992																					
Project #:		Fax #:																					
Project Name: Caviness 6"																							
Project Location: UL/ H Sec 11 T18S - R33E																							
Sampler Name: Eli Dominguez																							
FOR LAB USE ONLY																							
Lab I.D. Sample I.D.																							
H225118																							
1 HZ1-Surf		G 1																					
2 HZ1-1'		G 1																					
3 HZ2-Surf		G 1																					
4 HZ2-1'		G 1																					
5 HZ3-Surf		G 1																					
6 HZ3-1'		G 1																					
7 HZ4-Surf		G 1																					
8 HZ4-1'		G 1																					
9 HZ5-Surf		G 1																					
10 HZ5-1'		G 1																					
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																							
Relinquished By: <i>Eli Dominguez</i>		Date: 10/31/22																					
Relinquished By: <i>Francisco Alvarado</i>		Received By: <i>Francisco Alvarado</i>																					
Delivered By: (Circle One) <i>#113</i>		Sample Condition																					
Sampler - UPS - Bus - Other: <i>0.96/0.36</i>		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>																					
		Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>																					
		Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>																					
		Checked BY: <i>YD</i>																					
Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476																							





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: Frontier Field Services, LLC					
Address: PO Box 1058		Attn: Amber Groves					
City: Hobbs	State: NM	Zip: 88241					
Phone #: 575 393-3386	Fax #:	Address: 47 Conoco Rd					
Project #:	Project Owner: Frontier Field Services, LLC	City: Maljamar					
Project Name: Caviness 6"	State: NM	Zip: 88264					
Project Location: UL/ H Sec 11 T18S - R33E	Phone #: 575-703-7992						
Sampler Name: Eli Dominguez	Fax #:						

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	Chloride	TPH	BTEX 8021	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:						ICE / COOL
H225718																
11	HZ6-Surf	G	1	X												
12	HZ6-1'	G	1	X												
13	HZ7-Surf	G	1	X												
14	HZ7-1'	G	1	X												
15	HZ8-Surf	G	1	X												
16	HZ8-1'	G	1	X												
17	HZ9-Surf	G	1	X												
18	HZ9-1'	G	1	X												
19	HZ10-Surf	G	1	X												
20	HZ10-1'	G	1	X												

Relinquished By: <i>Eli Dominguez</i>	Date: 10/5/22	Received By: <i>Amber Groves</i>	Date: 10/31/22
Time: 2:30		Time: 10:30	

Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other: <i>0.9°C / 0.3°C</i>	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	<i>Y.O.</i>

REMARKS:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
Email results to: pm@hungry-horse.com agroves@durangomidstream.com	



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November 08, 2022

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: CAVINESS 6"

Enclosed are the results of analyses for samples received by the laboratory on 10/31/22 14:27.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	10/31/2022	Sampling Date:	10/28/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	CAVINESS 6"	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL/H SEC 11 T18S - R33E		

**Sample ID: SP1 - SURF (H225119-01)**

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>20.2</b>	1.00	11/08/2022	ND	1.90	94.9	2.00	3.85	
<b>Toluene*</b>	<b>118</b>	1.00	11/08/2022	ND	2.01	100	2.00	2.78	
<b>Ethylbenzene*</b>	<b>74.7</b>	1.00	11/08/2022	ND	1.97	98.3	2.00	0.726	
<b>Total Xylenes*</b>	<b>111</b>	3.00	11/08/2022	ND	5.98	99.7	6.00	0.176	
<b>Total BTX</b>	<b>324</b>	6.00	11/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	11/02/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>2480</b>	50.0	11/02/2022	ND	206	103	200	1.04		
<b>DRO &gt;C10-C28*</b>	<b>4210</b>	50.0	11/02/2022	ND	194	96.8	200	1.92		
<b>EXT DRO &gt;C28-C36</b>	<b>527</b>	50.0	11/02/2022	ND						

Surrogate: 1-Chlorooctane 270 % 45.3-161

Surrogate: 1-Chlorooctadecane 142 % 46.3-178

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\*=Accredited Analyte

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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: 10/31/2022  
 Reported: 11/08/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 10/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP2 - SURF (H225119-02)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	18.9	0.500	11/08/2022	ND	1.90	94.9	2.00	3.85	
Toluene*	81.7	0.500	11/08/2022	ND	2.01	100	2.00	2.78	
Ethylbenzene*	39.3	0.500	11/08/2022	ND	1.97	98.3	2.00	0.726	
Total Xylenes*	54.8	1.50	11/08/2022	ND	5.98	99.7	6.00	0.176	
Total BTEx	195	3.00	11/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	11/02/2022	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*	757	50.0	11/02/2022	ND	206	103	200	1.04	
DRO >C10-C28*	1390	50.0	11/02/2022	ND	194	96.8	200	1.92	
EXT DRO >C28-C36	249	50.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 143 % 45.3-161

Surrogate: 1-Chlorooctadecane 131 % 46.3-178

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\*=Accredited Analyte

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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:	10/31/2022	Sampling Date:	10/28/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	CAVINESS 6"	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL/H SEC 11 T18S - R33E		

**Sample ID: SP3 - SURF (H225119-03)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>2.26</b>	0.500	11/08/2022	ND	1.90	94.9	2.00	3.85	
<b>Toluene*</b>	<b>37.8</b>	0.500	11/08/2022	ND	2.01	100	2.00	2.78	
<b>Ethylbenzene*</b>	<b>42.5</b>	0.500	11/08/2022	ND	1.97	98.3	2.00	0.726	
<b>Total Xylenes*</b>	<b>71.5</b>	1.50	11/08/2022	ND	5.98	99.7	6.00	0.176	
<b>Total BTEX</b>	<b>154</b>	3.00	11/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	11/02/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>2310</b>	50.0	11/02/2022	ND	206	103	200	1.04		
<b>DRO &gt;C10-C28*</b>	<b>13200</b>	50.0	11/02/2022	ND	194	96.8	200	1.92		
<b>EXT DRO &gt;C28-C36</b>	<b>2060</b>	50.0	11/02/2022	ND						

Surrogate: 1-Chlorooctane 459 % 45.3-161

Surrogate: 1-Chlorooctadecane 400 % 46.3-178

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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: 10/31/2022  
 Reported: 11/08/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 10/28/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP4 - SURF (H225119-04)**

BTX 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/08/2022	ND	1.90	94.9	2.00	3.85	
Toluene*	67.4	0.500	11/08/2022	ND	2.01	100	2.00	2.78	
Ethylbenzene*	64.6	0.500	11/08/2022	ND	1.97	98.3	2.00	0.726	
Total Xylenes*	125	1.50	11/08/2022	ND	5.98	99.7	6.00	0.176	
Total BTX	257	3.00	11/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 142 % 69.9-140

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	11/02/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2500	50.0	11/02/2022	ND	206	103	200	1.04	
DRO >C10-C28*	9360	50.0	11/02/2022	ND	194	96.8	200	1.92	
EXT DRO >C28-C36	1420	50.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 353 % 45.3-161

Surrogate: 1-Chlorooctadecane 300 % 46.3-178

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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: 10/31/2022  
 Reported: 11/08/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 10/31/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP5 - SURF (H225119-05)**

BTX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	11/08/2022	ND	2.04	102	2.00	6.47	
Toluene*	11.1	0.200	11/08/2022	ND	2.12	106	2.00	5.85	
Ethylbenzene*	30.7	0.200	11/08/2022	ND	2.06	103	2.00	6.19	
Total Xylenes*	60.9	0.600	11/08/2022	ND	6.26	104	6.00	5.87	
Total BTX	103	1.20	11/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 174 % 69.9-140

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	11/02/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1000	50.0	11/02/2022	ND	206	103	200	1.04	
DRO >C10-C28*	9600	50.0	11/02/2022	ND	194	96.8	200	1.92	
EXT DRO >C28-C36	1580	50.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 373 % 45.3-161

Surrogate: 1-Chlorooctadecane 387 % 46.3-178

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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: 10/31/2022  
 Reported: 11/08/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 10/31/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP6 - SURF (H225119-06)**

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	11/06/2022	ND	2.04	102	2.00	6.47	
Toluene*	5.53	0.200	11/06/2022	ND	2.12	106	2.00	5.85	
Ethylbenzene*	15.4	0.200	11/06/2022	ND	2.06	103	2.00	6.19	
Total Xylenes*	44.3	0.600	11/06/2022	ND	6.26	104	6.00	5.87	
Total BTEX	65.3	1.20	11/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 194 % 69.9-140

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	11/02/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	970	50.0	11/02/2022	ND	206	103	200	1.04	
DRO >C10-C28*	11100	50.0	11/02/2022	ND	194	96.8	200	1.92	
EXT DRO >C28-C36	1880	50.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 368 % 45.3-161

Surrogate: 1-Chlorooctadecane 381 % 46.3-178

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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: 10/31/2022  
 Reported: 11/08/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 10/31/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP7 - SURF (H225119-07)**

BTX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/06/2022	ND	2.04	102	2.00	6.47	
Toluene*	35.0	0.500	11/06/2022	ND	2.12	106	2.00	5.85	
Ethylbenzene*	61.8	0.500	11/06/2022	ND	2.06	103	2.00	6.19	
Total Xylenes*	106	1.50	11/06/2022	ND	6.26	104	6.00	5.87	
Total BTX	203	3.00	11/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 151 % 69.9-140

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	11/02/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1910	50.0	11/02/2022	ND	206	103	200	1.04	
DRO >C10-C28*	11700	50.0	11/02/2022	ND	194	96.8	200	1.92	
EXT DRO >C28-C36	1950	50.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 460 % 45.3-161

Surrogate: 1-Chlorooctadecane 393 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received:	10/31/2022	Sampling Date:	10/31/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	CAVINESS 6"	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL/H SEC 11 T18S - R33E		

**Sample ID: SP8 - SURF (H225119-08)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	17.0	1.00	11/08/2022	ND	2.04	102	2.00	6.47		
Toluene*	143	1.00	11/08/2022	ND	2.12	106	2.00	5.85		
Ethylbenzene*	90.2	1.00	11/08/2022	ND	2.06	103	2.00	6.19		
Total Xylenes*	153	3.00	11/08/2022	ND	6.26	104	6.00	5.87		
Total BTEX	403	6.00	11/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 69.9-140

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	11/02/2022	ND	416	104	400	3.77		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3160	50.0	11/02/2022	ND	206	103	200	1.04	
DRO >C10-C28*	13100	50.0	11/02/2022	ND	194	96.8	200	1.92	
EXT DRO >C28-C36	2280	50.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 544 % 45.3-161

Surrogate: 1-Chlorooctadecane 396 % 46.3-178

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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: 10/31/2022  
 Reported: 11/08/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 10/31/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP9 - SURF (H225119-09)**

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>16.4</b>	1.00	11/08/2022	ND	2.04	102	2.00	6.47	
<b>Toluene*</b>	<b>115</b>	1.00	11/08/2022	ND	2.12	106	2.00	5.85	
<b>Ethylbenzene*</b>	<b>77.1</b>	1.00	11/08/2022	ND	2.06	103	2.00	6.19	
<b>Total Xylenes*</b>	<b>118</b>	3.00	11/08/2022	ND	6.26	104	6.00	5.87	
<b>Total BTEX</b>	<b>326</b>	6.00	11/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	11/02/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10*</b>	<b>2660</b>	50.0	11/02/2022	ND	206	103	200	1.04		
<b>DRO &gt;C10-C28*</b>	<b>14900</b>	50.0	11/02/2022	ND	194	96.8	200	1.92		
<b>EXT DRO &gt;C28-C36</b>	<b>2650</b>	50.0	11/02/2022	ND						

Surrogate: 1-Chlorooctane 412 % 45.3-161

Surrogate: 1-Chlorooctadecane 512 % 46.3-178

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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: 10/31/2022  
 Reported: 11/08/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 10/31/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP10 - SURF (H225119-10)**

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	11/06/2022	ND	2.04	102	2.00	6.47	
Toluene*	0.332	0.050	11/06/2022	ND	2.12	106	2.00	5.85	
Ethylbenzene*	1.24	0.050	11/06/2022	ND	2.06	103	2.00	6.19	
Total Xylenes*	2.85	0.150	11/06/2022	ND	6.26	104	6.00	5.87	
Total BTX	4.42	0.300	11/06/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 69.9-140

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	11/02/2022	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*	65.7	50.0	11/02/2022	ND	206	103	200	1.04	
DRO >C10-C28*	2290	50.0	11/02/2022	ND	194	96.8	200	1.92	
EXT DRO >C28-C36	508	50.0	11/02/2022	ND					

Surrogate: 1-Chlorooctane 107 % 45.3-161

Surrogate: 1-Chlorooctadecane 119 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager





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		City: Hobbs		State: NM		Zip: 88241		Company: Frontier Field Services, LLC		Attn: Amber Groves		Address: 47 Conoco Rd		City: Maljamar		State: NM		Zip: 88264		Phone #: 575-703-7992		Fax #:			
Address: PO Box 1058		City: Hobbs		State: NM		Zip: 88241		Company: Frontier Field Services, LLC		Attn: Amber Groves		Address: 47 Conoco Rd		City: Maljamar		State: NM		Zip: 88264		Phone #: 575-703-7992		Fax #:			
Phone #: 575 393-3386		Fax #:		Project Owner:		Frontier Field Services, LLC		City:		State:		Zip:		Phone #:		Fax #:		Project Name:		Caviness 6"		Project Location:		UL/ H Sec 11 T18S - R33E	
Project Name:		Caviness 6"		Project Location:		UL/ H Sec 11 T18S - R33E		Sample Name:		Eli Dominguez		FOR LAB USE ONLY		Lab I.D.		Sample I.D.		H225719		SP1-Surf		G		1	
SP2-Surf		G		1		10/28/22		X		X		X		X		X		X		X		X		X	
SP3-Surf		G		1		10/28/22		X		X		X		X		X		X		X		X		X	
SP4-Surf		G		1		10/28/22		X		X		X		X		X		X		X		X		X	
SP5-Surf		G		1		10/28/22		X		X		X		X		X		X		X		X		X	
SP6-Surf		G		1		10/31/22		X		X		X		X		X		X		X		X		X	
SP7-Surf		G		1		10/31/22		X		X		X		X		X		X		X		X		X	
SP8-Surf		G		1		10/31/22		X		X		X		X		X		X		X		X		X	
SP9-Surf		G		1		10/31/22		X		X		X		X		X		X		X		X		X	
SP10-Surf		G		1		10/31/22		X		X		X		X		X		X		X		X		X	

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Relinquished By: Eli Dominguez Date: 10/31/22 Received By: Amber Groves Date: 10/31/22

Relinquished By: Eli Dominguez Date: 10/31/22 Received By: Amber Groves Date: 10/31/22

Delivered By: (Circle One) UPS 11/3 Sample Condition Cool Intact Yes Yes No No CHECKED BY: pm (Initials)

Sampler - UPS - Bus - Other: 0.9c / 0.3c Yes Yes No No Yes Yes No No

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

REMARKS: pm@hungry-horse.com  
agroves@durangomidstream.com

Phone Result: ☐ Yes ☐ No Add'l Phone #: pm@hungry-horse.com  
Fax Result: ☐ Yes ☐ No Add'l Fax #: agroves@durangomidstream.com



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November 11, 2022

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: CAVINESS 6"

Enclosed are the results of analyses for samples received by the laboratory on 11/04/22 14:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	11/04/2022	Sampling Date:	11/04/2022
Reported:	11/11/2022	Sampling Type:	Soil
Project Name:	CAVINESS 6"	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/H SEC 11 T18S - R33E		

**Sample ID: SP 1 - 8' (H225230-01)**

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>34.3</b>	1.00	11/11/2022	ND	1.91	95.3	2.00	10.3	
<b>Toluene*</b>	<b>102</b>	1.00	11/11/2022	ND	1.97	98.6	2.00	7.62	
<b>Ethylbenzene*</b>	<b>57.7</b>	1.00	11/11/2022	ND	1.99	99.6	2.00	7.95	
<b>Total Xylenes*</b>	<b>84.9</b>	3.00	11/11/2022	ND	6.13	102	6.00	7.00	
<b>Total BTX</b>	<b>279</b>	6.00	11/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	11/08/2022	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
<b>GRO C6-C10*</b>	<b>1230</b>	10.0	11/08/2022	ND	203	101	200	0.918	
<b>DRO &gt;C10-C28*</b>	<b>541</b>	10.0	11/08/2022	ND	214	107	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	11/08/2022	ND					

Surrogate: 1-Chlorooctane 130 % 45.3-161

Surrogate: 1-Chlorooctadecane 75.2 % 46.3-178

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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: 11/04/2022  
 Reported: 11/11/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/04/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 2 - 4' (H225230-02)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.081	0.050	11/11/2022	ND	1.91	95.3	2.00	10.3	
Toluene*	0.083	0.050	11/11/2022	ND	1.97	98.6	2.00	7.62	
Ethylbenzene*	<0.050	0.050	11/11/2022	ND	1.99	99.6	2.00	7.95	
Total Xylenes*	<0.150	0.150	11/11/2022	ND	6.13	102	6.00	7.00	
Total BTEx	<0.300	0.300	11/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/08/2022	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	11/08/2022	ND	203	101	200	0.918	
DRO >C10-C28*	<10.0	10.0	11/08/2022	ND	214	107	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	11/08/2022	ND					

Surrogate: 1-Chlorooctane 83.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.6 % 46.3-178

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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: 11/04/2022  
 Reported: 11/11/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/04/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 3 - 4' (H225230-03)**

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	11/11/2022	ND	1.91	95.3	2.00	10.3		
Toluene*	<0.050	0.050	11/11/2022	ND	1.97	98.6	2.00	7.62		
Ethylbenzene*	<0.050	0.050	11/11/2022	ND	1.99	99.6	2.00	7.95		
Total Xylenes*	<0.150	0.150	11/11/2022	ND	6.13	102	6.00	7.00		
Total BTX	<0.300	0.300	11/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/08/2022	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	11/08/2022	ND	203	101	200	0.918	
DRO >C10-C28*	21.8	10.0	11/08/2022	ND	214	107	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	11/08/2022	ND					

Surrogate: 1-Chlorooctane 80.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 76.9 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/04/2022  
 Reported: 11/11/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/04/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 4 - 4' (H225230-04)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/11/2022	ND	1.91	95.3	2.00	10.3		
Toluene*	<0.050	0.050	11/11/2022	ND	1.97	98.6	2.00	7.62		
Ethylbenzene*	<0.050	0.050	11/11/2022	ND	1.99	99.6	2.00	7.95		
Total Xylenes*	<0.150	0.150	11/11/2022	ND	6.13	102	6.00	7.00		
Total BTEx	<0.300	0.300	11/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/08/2022	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	11/08/2022	ND	203	101	200	0.918	
DRO >C10-C28*	28.8	10.0	11/08/2022	ND	214	107	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	11/08/2022	ND					

Surrogate: 1-Chlorooctane 73.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 70.0 % 46.3-178

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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: 11/04/2022  
 Reported: 11/11/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/04/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 5 - 4' (H225230-05)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/11/2022	ND	1.91	95.3	2.00	10.3		
Toluene*	0.083	0.050	11/11/2022	ND	1.97	98.6	2.00	7.62		
Ethylbenzene*	0.100	0.050	11/11/2022	ND	1.99	99.6	2.00	7.95		
Total Xylenes*	0.225	0.150	11/11/2022	ND	6.13	102	6.00	7.00		
Total BTEx	0.408	0.300	11/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/08/2022	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	11/08/2022	ND	203	101	200	0.918	
DRO >C10-C28*	230	10.0	11/08/2022	ND	214	107	200	1.45	
EXT DRO >C28-C36	52.9	10.0	11/08/2022	ND					

Surrogate: 1-Chlorooctane 64.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 69.0 % 46.3-178

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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: 11/04/2022  
 Reported: 11/11/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/04/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 6 - 4' (H225230-06)**

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/11/2022	ND	1.91	95.3	2.00	10.3	
Toluene*	0.460	0.050	11/11/2022	ND	1.97	98.6	2.00	7.62	
Ethylbenzene*	0.405	0.050	11/11/2022	ND	1.99	99.6	2.00	7.95	
Total Xylenes*	0.823	0.150	11/11/2022	ND	6.13	102	6.00	7.00	
Total BTEX	1.69	0.300	11/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/08/2022	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*	13.7	10.0	11/08/2022	ND	203	101	200	0.918	
DRO >C10-C28*	913	10.0	11/08/2022	ND	214	107	200	1.45	
EXT DRO >C28-C36	172	10.0	11/08/2022	ND					

Surrogate: 1-Chlorooctane 45.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 67.3 % 46.3-178

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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: 11/04/2022  
 Reported: 11/11/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/04/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 7 - 4' (H225230-07)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/11/2022	ND	1.77	88.5	2.00	1.86		
Toluene*	0.105	0.050	11/11/2022	ND	1.81	90.4	2.00	0.0107		
Ethylbenzene*	0.234	0.050	11/11/2022	ND	1.80	89.8	2.00	2.04		
Total Xylenes*	0.695	0.150	11/11/2022	ND	5.59	93.1	6.00	0.435		
Total BTEX	1.03	0.300	11/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/08/2022	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*	22.7	10.0	11/08/2022	ND	203	101	200	0.918	
DRO >C10-C28*	945	10.0	11/08/2022	ND	214	107	200	1.45	
EXT DRO >C28-C36	184	10.0	11/08/2022	ND					

Surrogate: 1-Chlorooctane 87.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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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: 11/04/2022  
 Reported: 11/11/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/04/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 8 - 4' (H225230-08)**

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	11/11/2022	ND	1.77	88.5	2.00	1.86	
Toluene*	0.136	0.050	11/11/2022	ND	1.81	90.4	2.00	0.0107	
Ethylbenzene*	0.170	0.050	11/11/2022	ND	1.80	89.8	2.00	2.04	
Total Xylenes*	0.435	0.150	11/11/2022	ND	5.59	93.1	6.00	0.435	
Total BTEX	0.741	0.300	11/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/08/2022	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*	13.4	10.0	11/08/2022	ND	203	101	200	0.918	
DRO >C10-C28*	621	10.0	11/08/2022	ND	214	107	200	1.45	
EXT DRO >C28-C36	121	10.0	11/08/2022	ND					

Surrogate: 1-Chlorooctane 94.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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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: 11/04/2022  
 Reported: 11/11/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/04/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 9 - 4' (H225230-09)**

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	11/11/2022	ND	1.77	88.5	2.00	1.86		
Toluene*	<0.050	0.050	11/11/2022	ND	1.81	90.4	2.00	0.0107		
Ethylbenzene*	<0.050	0.050	11/11/2022	ND	1.80	89.8	2.00	2.04		
Total Xylenes*	<0.150	0.150	11/11/2022	ND	5.59	93.1	6.00	0.435		
Total BTEX	<0.300	0.300	11/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/08/2022	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	11/08/2022	ND	203	101	200	0.918	
DRO >C10-C28*	68.4	10.0	11/08/2022	ND	214	107	200	1.45	
EXT DRO >C28-C36	28.5	10.0	11/08/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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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: 11/04/2022  
 Reported: 11/11/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/04/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SP 10 - 4' (H225230-10)**

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	11/11/2022	ND	1.77	88.5	2.00	1.86		
Toluene*	<0.050	0.050	11/11/2022	ND	1.81	90.4	2.00	0.0107		
Ethylbenzene*	<0.050	0.050	11/11/2022	ND	1.80	89.8	2.00	2.04		
Total Xylenes*	<0.150	0.150	11/11/2022	ND	5.59	93.1	6.00	0.435		
Total BTEx	<0.300	0.300	11/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/08/2022	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	11/08/2022	ND	203	101	200	0.918	
DRO >C10-C28*	12.0	10.0	11/08/2022	ND	214	107	200	1.45	
EXT DRO >C28-C36	<10.0	10.0	11/08/2022	ND					

Surrogate: 1-Chlorooctane 97.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager





---

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### Notes and Definitions

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

---

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A handwritten signature in black ink, appearing to read "C. D. Keene", written over a horizontal line.

---

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: Frontier Field Services, LLC					
Address: PO Box 1058		Attn: Amber Groves					
City: Hobbs		State: NM		Zip: 88241			
Phone #: 575 393-3386		Fax #:		Address: 47 Conoco Rd			
Project #:		Project Owner: Frontier Field Services, LLC		City: Malamar			
Project Name: Caviness 6"		State: NM		Zip: 88264			
Project Location: UL/H Sec 11 T18S - R33E		Phone #: 575-703-7992		Fax #:			
Sampler Name: Eli Dominguez							

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX							DATE	TIME	Chloride	TPH	BTEX 8021	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:						ICE / COOL
1	SP1 - 8'	G	1	X												
2	SP2 - 4'	G	1	X												
3	SP3 - 4'	G	1	X												
4	SP4 - 4'	G	1	X												
5	SP5 - 4'	G	1	X												
6	SP6 - 4'	G	1	X												
7	SP7 - 4'	G	1	X												
8	SP8 - 4'	G	1	X												
9	SP9 - 4'	G	1	X												
10	SP10 - 4'	G	1	X												

Relinquished By: <i>Eli Dominguez</i>		Date: 11/4/22	Received By: <i>Stedrick</i>
Time: 2:45			
Relinquished By: <i>Eli Dominguez</i>		Date: 11/4/22	Received By: <i>Stedrick</i>
Time: 2:45			
Delivered By: (Circle One) <i>3.56 C.O.C.</i>		Sample Condition	
Sampler - UPS - Bus - Other: <i>2.92 #113</i>		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	
		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
		Checked By: <i>802</i>	

REMARKS:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Email results to: pm@hungry-horse.com agroves@durangomidstream.com		



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

---

November 18, 2022

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: CAVINESS 6"

Enclosed are the results of analyses for samples received by the laboratory on 11/14/22 14:43.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	11/14/2022	Sampling Date:	11/14/2022
Reported:	11/18/2022	Sampling Type:	Soil
Project Name:	CAVINESS 6"	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL/H SEC 11 T18S - R33E		

**Sample ID: SP 1 - 10' (H225380-01)**

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	11/15/2022	ND	2.14	107	2.00	1.88	
Toluene*	<0.050	0.050	11/15/2022	ND	2.21	111	2.00	1.87	
Ethylbenzene*	<0.050	0.050	11/15/2022	ND	2.10	105	2.00	1.48	
Total Xylenes*	<0.150	0.150	11/15/2022	ND	6.32	105	6.00	0.422	
Total BTEX	<0.300	0.300	11/15/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.3 % 69.9-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: GM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/16/2022	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	11/16/2022	ND	206	103	200	2.73	
DRO >C10-C28*	17.1	10.0	11/16/2022	ND	185	92.3	200	3.06	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 86.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.3 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 11/14/2022  
 Reported: 11/18/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/14/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 5 - 4.5' (H225380-02)**

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	11/16/2022	ND	1.95	97.3	2.00	1.83		
Toluene*	<0.050	0.050	11/16/2022	ND	2.00	99.9	2.00	0.457		
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	2.01	101	2.00	1.08		
Total Xylenes*	<0.150	0.150	11/16/2022	ND	6.26	104	6.00	2.01		
Total BTX	<0.300	0.300	11/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/16/2022	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	11/16/2022	ND	206	103	200	2.73	
DRO >C10-C28*	102	10.0	11/16/2022	ND	185	92.3	200	3.06	
EXT DRO >C28-C36	20.9	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 86.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	11/14/2022	Sampling Date:	11/14/2022
Reported:	11/18/2022	Sampling Type:	Soil
Project Name:	CAVINESS 6"	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL/H SEC 11 T18S - R33E		

**Sample ID: SP 6 - 4.5' (H225380-03)**

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	11/16/2022	ND	1.95	97.3	2.00	1.83		
Toluene*	<0.050	0.050	11/16/2022	ND	2.00	99.9	2.00	0.457		
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	2.01	101	2.00	1.08		
Total Xylenes*	<0.150	0.150	11/16/2022	ND	6.26	104	6.00	2.01		
Total BTX	<0.300	0.300	11/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/16/2022	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	11/16/2022	ND	206	103	200	2.73	
DRO >C10-C28*	25.4	10.0	11/16/2022	ND	185	92.3	200	3.06	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 82.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.1 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/14/2022  
 Reported: 11/18/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/14/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 7 - 4.5' (H225380-04)**

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/16/2022	ND	1.95	97.3	2.00	1.83		
Toluene*	<0.050	0.050	11/16/2022	ND	2.00	99.9	2.00	0.457		
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	2.01	101	2.00	1.08		
Total Xylenes*	<0.150	0.150	11/16/2022	ND	6.26	104	6.00	2.01		
Total BTEx	<0.300	0.300	11/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/16/2022	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	11/16/2022	ND	206	103	200	2.73	
DRO >C10-C28*	242	10.0	11/16/2022	ND	185	92.3	200	3.06	
EXT DRO >C28-C36	46.2	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 83.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 114 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/14/2022  
 Reported: 11/18/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/14/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 8 - 4.5' (H225380-05)**

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	11/16/2022	ND	1.95	97.3	2.00	1.83		
Toluene*	<0.050	0.050	11/16/2022	ND	2.00	99.9	2.00	0.457		
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	2.01	101	2.00	1.08		
Total Xylenes*	<0.150	0.150	11/16/2022	ND	6.26	104	6.00	2.01		
Total BTX	<0.300	0.300	11/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/16/2022	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	11/16/2022	ND	206	103	200	2.73	
DRO >C10-C28*	52.2	10.0	11/16/2022	ND	185	92.3	200	3.06	
EXT DRO >C28-C36	13.7	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 88.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 100 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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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: 11/14/2022  
 Reported: 11/18/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/14/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 9 - 4.5' (H225380-06)**

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	11/16/2022	ND	1.95	97.3	2.00	1.83		
Toluene*	<0.050	0.050	11/16/2022	ND	2.00	99.9	2.00	0.457		
Ethylbenzene*	<0.050	0.050	11/16/2022	ND	2.01	101	2.00	1.08		
Total Xylenes*	<0.150	0.150	11/16/2022	ND	6.26	104	6.00	2.01		
Total BTX	<0.300	0.300	11/16/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/16/2022	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	11/16/2022	ND	206	103	200	2.73	
DRO >C10-C28*	18.6	10.0	11/16/2022	ND	185	92.3	200	3.06	
EXT DRO >C28-C36	<10.0	10.0	11/16/2022	ND					

Surrogate: 1-Chlorooctane 80.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.0 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



---

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### Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

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

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

---

November 28, 2022

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: CAVINESS 6"

Enclosed are the results of analyses for samples received by the laboratory on 11/21/22 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

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:	11/21/2022	Sampling Date:	11/21/2022
Reported:	11/28/2022	Sampling Type:	Soil
Project Name:	CAVINESS 6"	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL/H SEC 11 T18S - R33E		

**Sample ID: SP5 - 5' (H225486-01)**

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	11/23/2022	ND	1.92	96.0	2.00	7.81	
Toluene*	<0.050	0.050	11/23/2022	ND	2.16	108	2.00	9.03	
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	1.96	97.8	2.00	7.29	
Total Xylenes*	<0.150	0.150	11/23/2022	ND	5.91	98.5	6.00	8.94	
Total BTEX	<0.300	0.300	11/23/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 69.9-140

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	11/22/2022	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2022	ND	202	101	200	3.24	
DRO >C10-C28*	<10.0	10.0	11/23/2022	ND	199	99.4	200	0.00252	
EXT DRO >C28-C36	<10.0	10.0	11/23/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/21/2022  
 Reported: 11/28/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/21/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP7 - 5' (H225486-02)**

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	11/23/2022	ND	1.92	96.0	2.00	7.81		
Toluene*	<0.050	0.050	11/23/2022	ND	2.16	108	2.00	9.03		
Ethylbenzene*	<0.050	0.050	11/23/2022	ND	1.96	97.8	2.00	7.29		
Total Xylenes*	<0.150	0.150	11/23/2022	ND	5.91	98.5	6.00	8.94		
Total BTEx	<0.300	0.300	11/23/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 69.9-140

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	11/22/2022	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2022	ND	202	101	200	3.24	
DRO >C10-C28*	<10.0	10.0	11/23/2022	ND	199	99.4	200	0.00252	
EXT DRO >C28-C36	<10.0	10.0	11/23/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager

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---

### Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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 "C. D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



Page 5 of 5

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November 30, 2022

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: CAVINESS 6"

Enclosed are the results of analyses for samples received by the laboratory on 11/23/22 12:47.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	11/23/2022	Sampling Date:	11/23/2022
Reported:	11/30/2022	Sampling Type:	Soil
Project Name:	CAVINESS 6"	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/H SEC 11 T18S - R33E		

**Sample ID: FL 1 (H225554-01)**

BTX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/28/2022	ND	1.94	97.1	2.00	0.849	
Toluene*	<0.050	0.050	11/28/2022	ND	2.08	104	2.00	0.361	
Ethylbenzene*	<0.050	0.050	11/28/2022	ND	2.05	103	2.00	0.817	
Total Xylenes*	<0.150	0.150	11/28/2022	ND	6.20	103	6.00	0.650	
Total BTX	<0.300	0.300	11/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.5 % 69.9-140

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	11/28/2022	ND	432	108	400	3.64	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/28/2022	ND	212	106	200	0.877	
DRO >C10-C28*	<10.0	10.0	11/28/2022	ND	197	98.5	200	0.243	
EXT DRO >C28-C36	<10.0	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 96.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 104 % 46.3-178

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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: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 2 (H225554-02)**

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	11/28/2022	ND	1.94	97.1	2.00	0.849	
Toluene*	<0.050	0.050	11/28/2022	ND	2.08	104	2.00	0.361	
Ethylbenzene*	<0.050	0.050	11/28/2022	ND	2.05	103	2.00	0.817	
Total Xylenes*	<0.150	0.150	11/28/2022	ND	6.20	103	6.00	0.650	
Total BTX	<0.300	0.300	11/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	11/28/2022	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/28/2022	ND	212	106	200	0.877	
DRO >C10-C28*	74.8	10.0	11/28/2022	ND	197	98.5	200	0.243	
EXT DRO >C28-C36	14.9	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 93.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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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: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 3 (H225554-03)**

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	11/28/2022	ND	1.94	97.1	2.00	0.849	
Toluene*	<0.050	0.050	11/28/2022	ND	2.08	104	2.00	0.361	
Ethylbenzene*	<0.050	0.050	11/28/2022	ND	2.05	103	2.00	0.817	
Total Xylenes*	<0.150	0.150	11/28/2022	ND	6.20	103	6.00	0.650	
Total BTX	<0.300	0.300	11/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 85.5 % 69.9-140

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	11/28/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/28/2022	ND	212	106	200	0.877	
DRO >C10-C28*	46.5	10.0	11/28/2022	ND	197	98.5	200	0.243	
EXT DRO >C28-C36	<10.0	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 84.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 92.0 % 46.3-178

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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: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 4 (H225554-04)**

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	11/28/2022	ND	1.94	97.1	2.00	0.849	
Toluene*	<0.050	0.050	11/28/2022	ND	2.08	104	2.00	0.361	
Ethylbenzene*	<0.050	0.050	11/28/2022	ND	2.05	103	2.00	0.817	
Total Xylenes*	<0.150	0.150	11/28/2022	ND	6.20	103	6.00	0.650	
Total BTX	<0.300	0.300	11/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.1 % 69.9-140

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	11/28/2022	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/28/2022	ND	212	106	200	0.877	
DRO >C10-C28*	<10.0	10.0	11/28/2022	ND	197	98.5	200	0.243	
EXT DRO >C28-C36	<10.0	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 84.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.6 % 46.3-178

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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: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 5 (H225554-05)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/28/2022	ND	1.94	97.1	2.00	0.849	
Toluene*	<0.050	0.050	11/28/2022	ND	2.08	104	2.00	0.361	
Ethylbenzene*	<0.050	0.050	11/28/2022	ND	2.05	103	2.00	0.817	
Total Xylenes*	<0.150	0.150	11/28/2022	ND	6.20	103	6.00	0.650	
Total BTEX	<0.300	0.300	11/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.0 % 69.9-140

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	11/28/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/28/2022	ND	212	106	200	0.877	
DRO >C10-C28*	<10.0	10.0	11/28/2022	ND	197	98.5	200	0.243	
EXT DRO >C28-C36	<10.0	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 97.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 6 (H225554-06)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/28/2022	ND	1.94	97.1	2.00	0.849	
Toluene*	<0.050	0.050	11/28/2022	ND	2.08	104	2.00	0.361	
Ethylbenzene*	<0.050	0.050	11/28/2022	ND	2.05	103	2.00	0.817	
Total Xylenes*	<0.150	0.150	11/28/2022	ND	6.20	103	6.00	0.650	
Total BTEx	<0.300	0.300	11/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.2 % 69.9-140

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	11/28/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/28/2022	ND	212	106	200	0.877	
DRO >C10-C28*	51.5	10.0	11/28/2022	ND	197	98.5	200	0.243	
EXT DRO >C28-C36	<10.0	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 93.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 107 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 7 (H225554-07)**

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/28/2022	ND	1.94	97.1	2.00	0.849	
Toluene*	<0.050	0.050	11/28/2022	ND	2.08	104	2.00	0.361	
Ethylbenzene*	<0.050	0.050	11/28/2022	ND	2.05	103	2.00	0.817	
Total Xylenes*	<0.150	0.150	11/28/2022	ND	6.20	103	6.00	0.650	
Total BTEX	<0.300	0.300	11/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.0 % 69.9-140

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	11/28/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/28/2022	ND	229	115	200	6.91	
DRO >C10-C28*	107	10.0	11/28/2022	ND	200	99.9	200	11.8	
EXT DRO >C28-C36	10.4	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 92.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.7 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 8 (H225554-08)**

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	11/28/2022	ND	1.94	97.1	2.00	0.849	
Toluene*	<0.050	0.050	11/28/2022	ND	2.08	104	2.00	0.361	
Ethylbenzene*	<0.050	0.050	11/28/2022	ND	2.05	103	2.00	0.817	
Total Xylenes*	<0.150	0.150	11/28/2022	ND	6.20	103	6.00	0.650	
Total BTEX	<0.300	0.300	11/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 86.5 % 69.9-140

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	11/28/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/28/2022	ND	229	115	200	6.91	
DRO >C10-C28*	216	10.0	11/28/2022	ND	200	99.9	200	11.8	
EXT DRO >C28-C36	36.0	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 89.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 87.9 % 46.3-178

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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: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 9 (H225554-09)**

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	11/28/2022	ND	1.94	97.1	2.00	0.849	
Toluene*	<0.050	0.050	11/28/2022	ND	2.08	104	2.00	0.361	
Ethylbenzene*	<0.050	0.050	11/28/2022	ND	2.05	103	2.00	0.817	
Total Xylenes*	<0.150	0.150	11/28/2022	ND	6.20	103	6.00	0.650	
Total BTX	<0.300	0.300	11/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.5 % 69.9-140

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	11/28/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/28/2022	ND	229	115	200	6.91	
DRO >C10-C28*	73.5	10.0	11/28/2022	ND	200	99.9	200	11.8	
EXT DRO >C28-C36	11.6	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 96.7 % 45.3-161

Surrogate: 1-Chlorooctadecane 95.3 % 46.3-178

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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: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 10 (H225554-10)**

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	11/28/2022	ND	1.94	97.1	2.00	0.849		
Toluene*	<0.050	0.050	11/28/2022	ND	2.08	104	2.00	0.361		
Ethylbenzene*	<0.050	0.050	11/28/2022	ND	2.05	103	2.00	0.817		
Total Xylenes*	<0.150	0.150	11/28/2022	ND	6.20	103	6.00	0.650		
Total BTEx	<0.300	0.300	11/28/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.7 % 69.9-140

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	11/28/2022	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/28/2022	ND	229	115	200	6.91	
DRO >C10-C28*	<10.0	10.0	11/28/2022	ND	200	99.9	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 104 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.8 % 46.3-178

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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: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 11 (H225554-11)**

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	11/28/2022	ND	1.94	97.1	2.00	0.849		
Toluene*	<0.050	0.050	11/28/2022	ND	2.08	104	2.00	0.361		
Ethylbenzene*	<0.050	0.050	11/28/2022	ND	2.05	103	2.00	0.817		
Total Xylenes*	<0.150	0.150	11/28/2022	ND	6.20	103	6.00	0.650		
Total BTEx	<0.300	0.300	11/28/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.5 % 69.9-140

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	11/28/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/28/2022	ND	229	115	200	6.91	
DRO >C10-C28*	52.5	10.0	11/28/2022	ND	200	99.9	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.9 % 46.3-178

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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: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 12 (H225554-12)**

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	11/28/2022	ND	1.94	97.1	2.00	0.849		
Toluene*	<0.050	0.050	11/28/2022	ND	2.08	104	2.00	0.361		
Ethylbenzene*	<0.050	0.050	11/28/2022	ND	2.05	103	2.00	0.817		
Total Xylenes*	<0.150	0.150	11/28/2022	ND	6.20	103	6.00	0.650		
Total BTEx	<0.300	0.300	11/28/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.7 % 69.9-140

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	11/28/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/28/2022	ND	229	115	200	6.91	
DRO >C10-C28*	204	10.0	11/28/2022	ND	200	99.9	200	11.8	
EXT DRO >C28-C36	39.0	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 94.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.8 % 46.3-178

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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: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 13 (H225554-13)**

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	11/28/2022	ND	1.95	97.3	2.00	1.58	
Toluene*	<0.050	0.050	11/28/2022	ND	2.18	109	2.00	2.54	
Ethylbenzene*	<0.050	0.050	11/28/2022	ND	2.05	102	2.00	1.20	
Total Xylenes*	<0.150	0.150	11/28/2022	ND	6.20	103	6.00	0.799	
Total BTX	<0.300	0.300	11/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 69.9-140

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	11/28/2022	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/28/2022	ND	229	115	200	6.91	
DRO >C10-C28*	11.4	10.0	11/28/2022	ND	200	99.9	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 106 % 45.3-161

Surrogate: 1-Chlorooctadecane 103 % 46.3-178

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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: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 14 (H225554-14)**

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	11/28/2022	ND	1.95	97.3	2.00	1.58		
Toluene*	<0.050	0.050	11/28/2022	ND	2.18	109	2.00	2.54		
Ethylbenzene*	<0.050	0.050	11/28/2022	ND	2.05	102	2.00	1.20		
Total Xylenes*	<0.150	0.150	11/28/2022	ND	6.20	103	6.00	0.799		
Total BTX	<0.300	0.300	11/28/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 69.9-140

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	11/28/2022	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	11/28/2022	ND	229	115	200	6.91	
DRO >C10-C28*	<10.0	10.0	11/28/2022	ND	200	99.9	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 95.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 100 % 46.3-178

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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: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 15 (H225554-15)**

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	11/28/2022	ND	1.95	97.3	2.00	1.58	
Toluene*	<0.050	0.050	11/28/2022	ND	2.18	109	2.00	2.54	
Ethylbenzene*	<0.050	0.050	11/28/2022	ND	2.05	102	2.00	1.20	
Total Xylenes*	<0.150	0.150	11/28/2022	ND	6.20	103	6.00	0.799	
Total BTX	<0.300	0.300	11/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.9-140

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	11/28/2022	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	11/28/2022	ND	229	115	200	6.91	
DRO >C10-C28*	<10.0	10.0	11/28/2022	ND	200	99.9	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 102 % 45.3-161

Surrogate: 1-Chlorooctadecane 99.7 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 16 (H225554-16)**

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	11/28/2022	ND	1.95	97.3	2.00	1.58	
Toluene*	<0.050	0.050	11/28/2022	ND	2.18	109	2.00	2.54	
Ethylbenzene*	<0.050	0.050	11/28/2022	ND	2.05	102	2.00	1.20	
Total Xylenes*	<0.150	0.150	11/28/2022	ND	6.20	103	6.00	0.799	
Total BTX	<0.300	0.300	11/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

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	11/28/2022	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	11/28/2022	ND	229	115	200	6.91	
DRO >C10-C28*	<10.0	10.0	11/28/2022	ND	200	99.9	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 84.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.5 % 46.3-178

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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: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 17 (H225554-17)**

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	11/28/2022	ND	1.95	97.3	2.00	1.58		
Toluene*	<0.050	0.050	11/28/2022	ND	2.18	109	2.00	2.54		
Ethylbenzene*	<0.050	0.050	11/28/2022	ND	2.05	102	2.00	1.20		
Total Xylenes*	<0.150	0.150	11/28/2022	ND	6.20	103	6.00	0.799		
Total BTEx	<0.300	0.300	11/28/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

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	11/28/2022	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	11/28/2022	ND	229	115	200	6.91	
DRO >C10-C28*	<10.0	10.0	11/28/2022	ND	200	99.9	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 84.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 81.4 % 46.3-178

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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: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 18 (H225554-18)**

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	11/28/2022	ND	1.95	97.3	2.00	1.58		
Toluene*	<0.050	0.050	11/28/2022	ND	2.18	109	2.00	2.54		
Ethylbenzene*	<0.050	0.050	11/28/2022	ND	2.05	102	2.00	1.20		
Total Xylenes*	<0.150	0.150	11/28/2022	ND	6.20	103	6.00	0.799		
Total BTX	<0.300	0.300	11/28/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.9-140

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	11/28/2022	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	11/28/2022	ND	229	115	200	6.91	
DRO >C10-C28*	<10.0	10.0	11/28/2022	ND	200	99.9	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 92.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.7 % 46.3-178

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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: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 19 (H225554-19)**

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	11/28/2022	ND	1.95	97.3	2.00	1.58	
Toluene*	<0.050	0.050	11/28/2022	ND	2.18	109	2.00	2.54	
Ethylbenzene*	<0.050	0.050	11/28/2022	ND	2.05	102	2.00	1.20	
Total Xylenes*	<0.150	0.150	11/28/2022	ND	6.20	103	6.00	0.799	
Total BTEX	<0.300	0.300	11/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 69.9-140

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	11/28/2022	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	11/28/2022	ND	229	115	200	6.91	
DRO >C10-C28*	<10.0	10.0	11/28/2022	ND	200	99.9	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 110 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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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: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 20 (H225554-20)**

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	11/28/2022	ND	1.95	97.3	2.00	1.58	
Toluene*	<0.050	0.050	11/28/2022	ND	2.18	109	2.00	2.54	
Ethylbenzene*	<0.050	0.050	11/28/2022	ND	2.05	102	2.00	1.20	
Total Xylenes*	<0.150	0.150	11/28/2022	ND	6.20	103	6.00	0.799	
Total BTEx	<0.300	0.300	11/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

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	11/28/2022	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	11/28/2022	ND	229	115	200	6.91	
DRO >C10-C28*	11.8	10.0	11/28/2022	ND	200	99.9	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 101 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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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: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 21 (H225554-21)**

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	11/28/2022	ND	1.95	97.3	2.00	1.58		
Toluene*	<0.050	0.050	11/28/2022	ND	2.18	109	2.00	2.54		
Ethylbenzene*	<0.050	0.050	11/28/2022	ND	2.05	102	2.00	1.20		
Total Xylenes*	<0.150	0.150	11/28/2022	ND	6.20	103	6.00	0.799		
Total BTX	<0.300	0.300	11/28/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

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	11/28/2022	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	11/28/2022	ND	229	115	200	6.91	
DRO >C10-C28*	<10.0	10.0	11/28/2022	ND	200	99.9	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 97.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.9 % 46.3-178

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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: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 22 (H225554-22)**

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	11/28/2022	ND	1.95	97.3	2.00	1.58		
Toluene*	<0.050	0.050	11/28/2022	ND	2.18	109	2.00	2.54		
Ethylbenzene*	<0.050	0.050	11/28/2022	ND	2.05	102	2.00	1.20		
Total Xylenes*	<0.150	0.150	11/28/2022	ND	6.20	103	6.00	0.799		
Total BTEx	<0.300	0.300	11/28/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

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	11/28/2022	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	11/28/2022	ND	229	115	200	6.91	
DRO >C10-C28*	21.6	10.0	11/28/2022	ND	200	99.9	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 96.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.8 % 46.3-178

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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: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 23 (H225554-23)**

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	11/28/2022	ND	1.95	97.3	2.00	1.58		
Toluene*	<0.050	0.050	11/28/2022	ND	2.18	109	2.00	2.54		
Ethylbenzene*	<0.050	0.050	11/28/2022	ND	2.05	102	2.00	1.20		
Total Xylenes*	<0.150	0.150	11/28/2022	ND	6.20	103	6.00	0.799		
Total BTX	<0.300	0.300	11/28/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 69.9-140

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	11/28/2022	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	11/28/2022	ND	229	115	200	6.91	
DRO >C10-C28*	66.6	10.0	11/28/2022	ND	200	99.9	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 91.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.2 % 46.3-178

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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: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 24 (H225554-24)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/28/2022	ND	1.95	97.3	2.00	1.58		
Toluene*	<0.050	0.050	11/28/2022	ND	2.18	109	2.00	2.54		
Ethylbenzene*	<0.050	0.050	11/28/2022	ND	2.05	102	2.00	1.20		
Total Xylenes*	<0.150	0.150	11/28/2022	ND	6.20	103	6.00	0.799		
Total BTEx	<0.300	0.300	11/28/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

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	11/28/2022	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	11/28/2022	ND	229	115	200	6.91	
DRO >C10-C28*	<10.0	10.0	11/28/2022	ND	200	99.9	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 89.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 87.9 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 25 (H225554-25)**

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	11/28/2022	ND	1.95	97.3	2.00	1.58	
Toluene*	<0.050	0.050	11/28/2022	ND	2.18	109	2.00	2.54	
Ethylbenzene*	<0.050	0.050	11/28/2022	ND	2.05	102	2.00	1.20	
Total Xylenes*	<0.150	0.150	11/28/2022	ND	6.20	103	6.00	0.799	
Total BTX	<0.300	0.300	11/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

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	11/28/2022	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	11/28/2022	ND	229	115	200	6.91	
DRO >C10-C28*	<10.0	10.0	11/28/2022	ND	200	99.9	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 93.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 91.2 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 26 (H225554-26)**

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	11/28/2022	ND	1.95	97.3	2.00	1.58	
Toluene*	<0.050	0.050	11/28/2022	ND	2.18	109	2.00	2.54	
Ethylbenzene*	<0.050	0.050	11/28/2022	ND	2.05	102	2.00	1.20	
Total Xylenes*	<0.150	0.150	11/28/2022	ND	6.20	103	6.00	0.799	
Total BTEX	<0.300	0.300	11/28/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

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	11/28/2022	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	11/28/2022	ND	229	115	200	6.91	
DRO >C10-C28*	<10.0	10.0	11/28/2022	ND	200	99.9	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 86.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 89.9 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: FL 27 (H225554-27)**

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	11/29/2022	ND	1.95	97.3	2.00	1.58	
Toluene*	<0.050	0.050	11/29/2022	ND	2.18	109	2.00	2.54	
Ethylbenzene*	<0.050	0.050	11/29/2022	ND	2.05	102	2.00	1.20	
Total Xylenes*	<0.150	0.150	11/29/2022	ND	6.20	103	6.00	0.799	
Total BTX	<0.300	0.300	11/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

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	11/28/2022	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	11/28/2022	ND	213	106	200	3.10	
<b>DRO &gt;C10-C28*</b>	<b>12.2</b>	10.0	11/28/2022	ND	212	106	200	4.71	
EXT DRO >C28-C36	<10.0	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 121 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

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Cardinal Laboratories

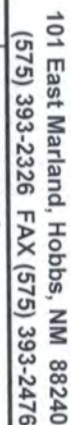
\*=Accredited Analyte

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

---

Celey D. Keene, Lab Director/Quality Manager



## Page 30 of 32

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Hungry Horse LLC		P.O. #:		BILL TO		ANALYSIS REQUEST																																					
Project Manager: Daniel Dominguez		Company: Frontier Field Services, LLC																																									
Address: PO Box 1058		Attn: Amber Groves																																									
City: Hobbs		Address: 47 Conoco Rd																																									
Phone #: 575 393-3386		City: Maljamar																																									
Fax #:		State: NM Zip: 88264																																									
Project #:		Phone #: 575-703-7992																																									
Project Name: Caviness 6"		Fax #:																																									
Project Location: UL/H Sec 11 T18S - R33E																																											
Sampler Name: Bradley Wells																																											
FOR LAB USE ONLY																																											
Lab I.D. Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		Chloride		TPH		BTEX 8021											
11		FL11		C 1		X																		11/23/22				X		X		X											
12		FL12		C 1		X																		11/23/22				X		X		X											
13		FL13		C 1		X																		11/23/22				X		X		X											
14		FL14		C 1		X																		11/23/22				X		X		X											
15		FL15		C 1		X																		11/23/22				X		X		X											
16		FL16		C 1		X																		11/23/22				X		X		X											
17		FL17		C 1		X																		11/23/22				X		X		X											
18		FL18		C 1		X																		11/23/22				X		X		X											
19		FL19		C 1		X																		11/23/22				X		X		X											
20		FL20		C 1		X																		11/23/22				X		X		X											
Relinquished By: <i>[Signature]</i>		Date: 11/23/22		Received By: <i>[Signature]</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:																																			
Relinquished By: <i>[Signature]</i>		Time: 1247		Received By: <i>[Signature]</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																																			
Delivered By: (Circle One) -C 4.4% C 0.6% Sampler - UPS - Bus - Other: -1.0% #113		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: <i>[Signature]</i>																																							
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## Page 32 of 32

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

---

November 30, 2022

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: CAVINESS 6"

Enclosed are the results of analyses for samples received by the laboratory on 11/23/22 12:47.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	11/23/2022	Sampling Date:	11/23/2022
Reported:	11/30/2022	Sampling Type:	Soil
Project Name:	CAVINESS 6"	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/H SEC 11 T18S - R33E		

**Sample ID: SW 1 (H225555-01)**

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	11/29/2022	ND	1.95	97.3	2.00	1.58		
Toluene*	<0.050	0.050	11/29/2022	ND	2.18	109	2.00	2.54		
Ethylbenzene*	<0.050	0.050	11/29/2022	ND	2.05	102	2.00	1.20		
Total Xylenes*	<0.150	0.150	11/29/2022	ND	6.20	103	6.00	0.799		
Total BTEX	<0.300	0.300	11/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 69.9-140

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	11/28/2022	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	11/28/2022	ND	213	106	200	3.10	
DRO >C10-C28*	<10.0	10.0	11/28/2022	ND	212	106	200	4.71	
EXT DRO >C28-C36	<10.0	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 91.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 112 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW 2 (H225555-02)**

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	11/29/2022	ND	1.95	97.3	2.00	1.58	
Toluene*	<0.050	0.050	11/29/2022	ND	2.18	109	2.00	2.54	
Ethylbenzene*	<0.050	0.050	11/29/2022	ND	2.05	102	2.00	1.20	
Total Xylenes*	<0.150	0.150	11/29/2022	ND	6.20	103	6.00	0.799	
Total BTX	<0.300	0.300	11/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

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	11/28/2022	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	11/28/2022	ND	221	111	200	3.43	
DRO >C10-C28*	<10.0	10.0	11/28/2022	ND	191	95.5	200	5.66	
EXT DRO >C28-C36	<10.0	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 97.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 106 % 46.3-178

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW 3 (H225555-03)**

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	11/29/2022	ND	1.95	97.3	2.00	1.58		
Toluene*	<0.050	0.050	11/29/2022	ND	2.18	109	2.00	2.54		
Ethylbenzene*	<0.050	0.050	11/29/2022	ND	2.05	102	2.00	1.20		
Total Xylenes*	<0.150	0.150	11/29/2022	ND	6.20	103	6.00	0.799		
Total BTX	<0.300	0.300	11/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 69.9-140

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	11/28/2022	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	11/28/2022	ND	221	111	200	3.43	
DRO >C10-C28*	<10.0	10.0	11/28/2022	ND	191	95.5	200	5.66	
EXT DRO >C28-C36	<10.0	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 93.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW 4 (H225555-04)**

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	11/29/2022	ND	1.95	97.3	2.00	1.58		
Toluene*	<0.050	0.050	11/29/2022	ND	2.18	109	2.00	2.54		
Ethylbenzene*	<0.050	0.050	11/29/2022	ND	2.05	102	2.00	1.20		
Total Xylenes*	<0.150	0.150	11/29/2022	ND	6.20	103	6.00	0.799		
Total BTX	<0.300	0.300	11/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

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	11/28/2022	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	11/28/2022	ND	221	111	200	3.43	
DRO >C10-C28*	<10.0	10.0	11/28/2022	ND	191	95.5	200	5.66	
EXT DRO >C28-C36	<10.0	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 93.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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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: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW 5 (H225555-05)**

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	11/29/2022	ND	1.95	97.3	2.00	1.58	
Toluene*	<0.050	0.050	11/29/2022	ND	2.18	109	2.00	2.54	
Ethylbenzene*	<0.050	0.050	11/29/2022	ND	2.05	102	2.00	1.20	
Total Xylenes*	<0.150	0.150	11/29/2022	ND	6.20	103	6.00	0.799	
Total BTX	<0.300	0.300	11/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

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	11/28/2022	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	11/28/2022	ND	221	111	200	3.43	
<b>DRO &gt;C10-C28*</b>	<b>25.6</b>	10.0	11/28/2022	ND	191	95.5	200	5.66	
EXT DRO >C28-C36	<10.0	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 121 % 45.3-161

Surrogate: 1-Chlorooctadecane 135 % 46.3-178

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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: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW 6 (H225555-06)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/29/2022	ND	1.91	95.5	2.00	1.95		
Toluene*	<0.050	0.050	11/29/2022	ND	2.21	110	2.00	2.08		
Ethylbenzene*	<0.050	0.050	11/29/2022	ND	2.12	106	2.00	1.91		
Total Xylenes*	<0.150	0.150	11/29/2022	ND	6.43	107	6.00	1.73		
Total BTEx	<0.300	0.300	11/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

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	11/28/2022	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	11/28/2022	ND	221	111	200	3.43	
DRO >C10-C28*	<10.0	10.0	11/28/2022	ND	191	95.5	200	5.66	
EXT DRO >C28-C36	<10.0	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 103 % 45.3-161

Surrogate: 1-Chlorooctadecane 116 % 46.3-178

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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: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW 7 (H225555-07)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/29/2022	ND	1.91	95.5	2.00	1.95		
Toluene*	<0.050	0.050	11/29/2022	ND	2.21	110	2.00	2.08		
Ethylbenzene*	<0.050	0.050	11/29/2022	ND	2.12	106	2.00	1.91		
Total Xylenes*	<0.150	0.150	11/29/2022	ND	6.43	107	6.00	1.73		
Total BTEx	<0.300	0.300	11/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

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	11/28/2022	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	11/28/2022	ND	221	111	200	3.43	
<b>DRO &gt;C10-C28*</b>	<b>84.0</b>	10.0	11/28/2022	ND	191	95.5	200	5.66	
EXT DRO >C28-C36	<10.0	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 113 % 45.3-161

Surrogate: 1-Chlorooctadecane 128 % 46.3-178

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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: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW 8 (H225555-08)**

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	11/29/2022	ND	1.91	95.5	2.00	1.95	
Toluene*	<0.050	0.050	11/29/2022	ND	2.21	110	2.00	2.08	
Ethylbenzene*	0.175	0.050	11/29/2022	ND	2.12	106	2.00	1.91	
Total Xylenes*	0.222	0.150	11/29/2022	ND	6.43	107	6.00	1.73	
Total BTX	0.397	0.300	11/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

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	11/28/2022	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*	24.0	10.0	11/28/2022	ND	221	111	200	3.43	
DRO >C10-C28*	1990	10.0	11/28/2022	ND	191	95.5	200	5.66	
EXT DRO >C28-C36	359	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 111 % 45.3-161

Surrogate: 1-Chlorooctadecane 116 % 46.3-178

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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: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW 9 (H225555-09)**

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	11/29/2022	ND	1.91	95.5	2.00	1.95		
Toluene*	<0.050	0.050	11/29/2022	ND	2.21	110	2.00	2.08		
Ethylbenzene*	<0.050	0.050	11/29/2022	ND	2.12	106	2.00	1.91		
Total Xylenes*	<0.150	0.150	11/29/2022	ND	6.43	107	6.00	1.73		
Total BTEx	<0.300	0.300	11/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 69.9-140

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	11/28/2022	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	11/28/2022	ND	221	111	200	3.43	
<b>DRO &gt;C10-C28*</b>	<b>25.3</b>	10.0	11/28/2022	ND	191	95.5	200	5.66	
EXT DRO >C28-C36	<10.0	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 104 % 45.3-161

Surrogate: 1-Chlorooctadecane 118 % 46.3-178

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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: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW 10 (H225555-10)**

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	11/29/2022	ND	1.91	95.5	2.00	1.95	
Toluene*	0.233	0.050	11/29/2022	ND	2.21	110	2.00	2.08	
Ethylbenzene*	0.233	0.050	11/29/2022	ND	2.12	106	2.00	1.91	
Total Xylenes*	0.283	0.150	11/29/2022	ND	6.43	107	6.00	1.73	
Total BTEX	0.749	0.300	11/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

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	11/28/2022	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	11/30/2022	ND	221	111	200	3.43	
DRO >C10-C28*	159	10.0	11/30/2022	ND	191	95.5	200	5.66	
EXT DRO >C28-C36	78.8	10.0	11/30/2022	ND					

Surrogate: 1-Chlorooctane 76.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.2 % 46.3-178

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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: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW 11 (H225555-11)**

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	11/29/2022	ND	1.91	95.5	2.00	1.95	
Toluene*	<0.050	0.050	11/29/2022	ND	2.21	110	2.00	2.08	
Ethylbenzene*	<0.050	0.050	11/29/2022	ND	2.12	106	2.00	1.91	
Total Xylenes*	<0.150	0.150	11/29/2022	ND	6.43	107	6.00	1.73	
Total BTEX	<0.300	0.300	11/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

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	11/28/2022	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	11/30/2022	ND	221	111	200	3.43	
DRO >C10-C28*	<10.0	10.0	11/30/2022	ND	191	95.5	200	5.66	
EXT DRO >C28-C36	15.9	10.0	11/30/2022	ND					

Surrogate: 1-Chlorooctane 94.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW 12 (H225555-12)**

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	11/29/2022	ND	1.91	95.5	2.00	1.95	
Toluene*	0.066	0.050	11/29/2022	ND	2.21	110	2.00	2.08	
Ethylbenzene*	<0.050	0.050	11/29/2022	ND	2.12	106	2.00	1.91	
Total Xylenes*	<0.150	0.150	11/29/2022	ND	6.43	107	6.00	1.73	
Total BTEx	<0.300	0.300	11/29/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

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	11/28/2022	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	11/28/2022	ND	221	111	200	3.43	
DRO >C10-C28*	127	10.0	11/28/2022	ND	191	95.5	200	5.66	
EXT DRO >C28-C36	20.3	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 92.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 118 % 46.3-178

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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: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW 13 (H225555-13)**

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	11/29/2022	ND	1.91	95.5	2.00	1.95		
Toluene*	<0.050	0.050	11/29/2022	ND	2.21	110	2.00	2.08		
Ethylbenzene*	<0.050	0.050	11/29/2022	ND	2.12	106	2.00	1.91		
Total Xylenes*	<0.150	0.150	11/29/2022	ND	6.43	107	6.00	1.73		
Total BTEx	<0.300	0.300	11/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 69.9-140

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	11/28/2022	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	11/28/2022	ND	221	111	200	3.43	
DRO >C10-C28*	<10.0	10.0	11/28/2022	ND	191	95.5	200	5.66	
EXT DRO >C28-C36	<10.0	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 98.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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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: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW 14 (H225555-14)**

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	11/29/2022	ND	1.91	95.5	2.00	1.95		
Toluene*	<0.050	0.050	11/29/2022	ND	2.21	110	2.00	2.08		
Ethylbenzene*	<0.050	0.050	11/29/2022	ND	2.12	106	2.00	1.91		
Total Xylenes*	<0.150	0.150	11/29/2022	ND	6.43	107	6.00	1.73		
Total BTEx	<0.300	0.300	11/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 69.9-140

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	11/28/2022	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	11/28/2022	ND	221	111	200	3.43	
DRO >C10-C28*	10.4	10.0	11/28/2022	ND	191	95.5	200	5.66	
EXT DRO >C28-C36	<10.0	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 86.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 96.8 % 46.3-178

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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: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW 15 (H225555-15)**

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	11/29/2022	ND	1.91	95.5	2.00	1.95		
Toluene*	<0.050	0.050	11/29/2022	ND	2.21	110	2.00	2.08		
Ethylbenzene*	<0.050	0.050	11/29/2022	ND	2.12	106	2.00	1.91		
Total Xylenes*	<0.150	0.150	11/29/2022	ND	6.43	107	6.00	1.73		
Total BTEx	<0.300	0.300	11/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 69.9-140

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	11/28/2022	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	11/28/2022	ND	221	111	200	3.43	
DRO >C10-C28*	<10.0	10.0	11/28/2022	ND	191	95.5	200	5.66	
EXT DRO >C28-C36	<10.0	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 96.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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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: 11/23/2022  
 Reported: 11/30/2022  
 Project Name: CAVINESS 6"  
 Project Number: FRONTIER FIELD SERVICES  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 11/23/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: SW 16 (H225555-16)**

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/29/2022	ND	1.91	95.5	2.00	1.95		
Toluene*	<0.050	0.050	11/29/2022	ND	2.21	110	2.00	2.08		
Ethylbenzene*	<0.050	0.050	11/29/2022	ND	2.12	106	2.00	1.91		
Total Xylenes*	<0.150	0.150	11/29/2022	ND	6.43	107	6.00	1.73		
Total BTEx	<0.300	0.300	11/29/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

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	11/28/2022	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	11/28/2022	ND	221	111	200	3.43	
DRO >C10-C28*	79.9	10.0	11/28/2022	ND	191	95.5	200	5.66	
EXT DRO >C28-C36	13.4	10.0	11/28/2022	ND					

Surrogate: 1-Chlorooctane 94.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 108 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

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

---

Celey D. Keene, Lab Director/Quality Manager





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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Hungry Horse LLC				P.O. #:				ANALYSIS REQUEST			
Project Manager: Daniel Dominguez				Company: Frontier Field Services, LLC							
Address: PO Box 1058				Attn: Amber Groves							
City: Hobbs		State: NM		Zip: 88241		Address: 47 Conoco Rd					
Phone #: 575 393-3386		Fax #:		Project Owner: Frontier Field Services, LLC		City: Maljamar					
Project #:		State: NM		Zip: 88264							
Project Name: Caviness 6"		Phone #: 575-703-7992									
Project Location: U/L H Sec 11 T18S - R33E		Fax #:									
Sampler Name: Bradley Wells		FOR LAB USE ONLY									
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP		DATE		TIME			
1235555		SW1		C 1		11/23/22		X			
1		SW2		C 1		11/23/22		X			
2		SW3		C 1		11/23/22		X			
3		SW4		C 1		11/23/22		X			
4		SW5		C 1		11/23/22		X			
5		SW6		C 1		11/23/22		X			
6		SW7		C 1		11/23/22		X			
7		SW8		C 1		11/23/22		X			
8		SW9		C 1		11/23/22		X			
9		SW10		C 1		11/23/22		X			
10		SW10		C 1		11/23/22		X			
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Relinquished By: [Signature]		Date: 11/23/22		Received By: [Signature]		Phone Result: [ ] Yes [ ] No		Add'l Phone #: [ ]			
Delivered By: (Circle One) -0.4% C-0.0% -1.0% #113		Sample Condition Cool Intact [ ] Yes [ ] No		CHECKED BY: [Signature]		Email results to: pm@hungry-horse.com		agroves@durangomidstream.com			





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

---

December 09, 2022

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: CAVINESS 6"

Enclosed are the results of analyses for samples received by the laboratory on 12/02/22 15:31.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For 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:	12/02/2022	Sampling Date:	12/02/2022
Reported:	12/09/2022	Sampling Type:	Soil
Project Name:	CAVINESS 6"	Sampling Condition:	Cool & Intact
Project Number:	UL / H SEC 11 T18S - R33E	Sample Received By:	Tamara Oldaker
Project Location:	UL/H SEC 11 T18S - R33E		

**Sample ID: FL 7 B (H225673-01)**

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	12/08/2022	ND	1.96	98.1	2.00	10.1	
Toluene*	<0.050	0.050	12/08/2022	ND	1.99	99.3	2.00	8.15	
Ethylbenzene*	<0.050	0.050	12/08/2022	ND	1.99	99.7	2.00	7.66	
Total Xylenes*	<0.150	0.150	12/08/2022	ND	6.04	101	6.00	7.07	
Total BTEX	<0.300	0.300	12/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

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	12/08/2022	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	183	91.4	200	8.02	
DRO >C10-C28*	<10.0	10.0	12/07/2022	ND	183	91.6	200	5.49	
EXT DRO >C28-C36	<10.0	10.0	12/07/2022	ND					

Surrogate: 1-Chlorooctane 75.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 79.7 % 46.3-178

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\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received: 12/02/2022  
 Reported: 12/09/2022  
 Project Name: CAVINESS 6"  
 Project Number: UL / H SEC 11 T18S - R33E  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 12/02/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 8 B (H225673-02)**

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	12/08/2022	ND	1.96	98.1	2.00	10.1		
Toluene*	<0.050	0.050	12/08/2022	ND	1.99	99.3	2.00	8.15		
Ethylbenzene*	<0.050	0.050	12/08/2022	ND	1.99	99.7	2.00	7.66		
Total Xylenes*	<0.150	0.150	12/08/2022	ND	6.04	101	6.00	7.07		
Total BTEx	<0.300	0.300	12/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

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	12/08/2022	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	183	91.4	200	8.02	
DRO >C10-C28*	<10.0	10.0	12/07/2022	ND	183	91.6	200	5.49	
EXT DRO >C28-C36	<10.0	10.0	12/07/2022	ND					

Surrogate: 1-Chlorooctane 69.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 73.9 % 46.3-178

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\*=Accredited Analyte

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





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

**Analytical Results For:**

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

Received: 12/02/2022  
 Reported: 12/09/2022  
 Project Name: CAVINESS 6"  
 Project Number: UL / H SEC 11 T18S - R33E  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 12/02/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FL 12 B (H225673-03)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/08/2022	ND	1.96	98.1	2.00	10.1	
Toluene*	<0.050	0.050	12/08/2022	ND	1.99	99.3	2.00	8.15	
Ethylbenzene*	<0.050	0.050	12/08/2022	ND	1.99	99.7	2.00	7.66	
Total Xylenes*	<0.150	0.150	12/08/2022	ND	6.04	101	6.00	7.07	
Total BTEX	<0.300	0.300	12/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

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	12/08/2022	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	183	91.4	200	8.02	
DRO >C10-C28*	<10.0	10.0	12/07/2022	ND	183	91.6	200	5.49	
EXT DRO >C28-C36	<10.0	10.0	12/07/2022	ND					

Surrogate: 1-Chlorooctane 73.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 78.1 % 46.3-178

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



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

**Analytical Results For:**

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

Received: 12/02/2022  
 Reported: 12/09/2022  
 Project Name: CAVINESS 6"  
 Project Number: UL / H SEC 11 T18S - R33E  
 Project Location: UL/H SEC 11 T18S - R33E

Sampling Date: 12/02/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SW 8 B (H225673-04)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/08/2022	ND	1.96	98.1	2.00	10.1		
Toluene*	<0.050	0.050	12/08/2022	ND	1.99	99.3	2.00	8.15		
Ethylbenzene*	<0.050	0.050	12/08/2022	ND	1.99	99.7	2.00	7.66		
Total Xylenes*	<0.150	0.150	12/08/2022	ND	6.04	101	6.00	7.07		
Total BTEX	<0.300	0.300	12/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

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	12/08/2022	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	183	91.4	200	8.02	
DRO >C10-C28*	<10.0	10.0	12/07/2022	ND	183	91.6	200	5.49	
EXT DRO >C28-C36	<10.0	10.0	12/07/2022	ND					

Surrogate: 1-Chlorooctane 72.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 77.8 % 46.3-178

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



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

**Analytical Results For:**

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

Received:	12/02/2022	Sampling Date:	12/02/2022
Reported:	12/09/2022	Sampling Type:	Soil
Project Name:	CAVINESS 6"	Sampling Condition:	Cool & Intact
Project Number:	UL / H SEC 11 T18S - R33E	Sample Received By:	Tamara Oldaker
Project Location:	UL/H SEC 11 T18S - R33E		

**Sample ID: SW 10 B (H225673-05)**

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	12/08/2022	ND	1.96	98.1	2.00	10.1		
Toluene*	<0.050	0.050	12/08/2022	ND	1.99	99.3	2.00	8.15		
Ethylbenzene*	<0.050	0.050	12/08/2022	ND	1.99	99.7	2.00	7.66		
Total Xylenes*	<0.150	0.150	12/08/2022	ND	6.04	101	6.00	7.07		
Total BTX	<0.300	0.300	12/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

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	12/08/2022	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	217	109	200	5.05	
DRO >C10-C28*	<10.0	10.0	12/07/2022	ND	199	99.7	200	0.385	
EXT DRO >C28-C36	<10.0	10.0	12/07/2022	ND					

Surrogate: 1-Chlorooctane 83.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 94.3 % 46.3-178

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



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

**Analytical Results For:**

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

Received:	12/02/2022	Sampling Date:	12/02/2022
Reported:	12/09/2022	Sampling Type:	Soil
Project Name:	CAVINESS 6"	Sampling Condition:	Cool & Intact
Project Number:	UL / H SEC 11 T18S - R33E	Sample Received By:	Tamara Oldaker
Project Location:	UL/H SEC 11 T18S - R33E		

**Sample ID: SW 12 B (H225673-06)**

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	12/08/2022	ND	1.96	98.1	2.00	10.1	
Toluene*	<0.050	0.050	12/08/2022	ND	1.99	99.3	2.00	8.15	
Ethylbenzene*	<0.050	0.050	12/08/2022	ND	1.99	99.7	2.00	7.66	
Total Xylenes*	<0.150	0.150	12/08/2022	ND	6.04	101	6.00	7.07	
Total BTX	<0.300	0.300	12/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

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	12/08/2022	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	217	109	200	5.05	
DRO >C10-C28*	<10.0	10.0	12/07/2022	ND	199	99.7	200	0.385	
EXT DRO >C28-C36	<10.0	10.0	12/07/2022	ND					

Surrogate: 1-Chlorooctane 92.9 % 45.3-161

Surrogate: 1-Chlorooctadecane 120 % 46.3-178

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



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

**Analytical Results For:**

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

Received:	12/02/2022	Sampling Date:	12/02/2022
Reported:	12/09/2022	Sampling Type:	Soil
Project Name:	CAVINESS 6"	Sampling Condition:	Cool & Intact
Project Number:	UL / H SEC 11 T18S - R33E	Sample Received By:	Tamara Oldaker
Project Location:	UL/H SEC 11 T18S - R33E		

**Sample ID: SW 16 B (H225673-07)**

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	12/08/2022	ND	1.96	98.1	2.00	10.1		
Toluene*	<0.050	0.050	12/08/2022	ND	1.99	99.3	2.00	8.15		
Ethylbenzene*	<0.050	0.050	12/08/2022	ND	1.99	99.7	2.00	7.66		
Total Xylenes*	<0.150	0.150	12/08/2022	ND	6.04	101	6.00	7.07		
Total BTX	<0.300	0.300	12/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

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	12/08/2022	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2022	ND	217	109	200	5.05	
DRO >C10-C28*	<10.0	10.0	12/07/2022	ND	199	99.7	200	0.385	
EXT DRO >C28-C36	<10.0	10.0	12/07/2022	ND					

Surrogate: 1-Chlorooctane 83.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.0 % 46.3-178

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





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

### Notes and Definitions

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 "Mike Snyder".

Mike Snyder For 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]

**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	nAPP2229930971
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party Frontier Field Services, LLC	OGRID 221115
Contact Name Amber Groves	Contact Telephone 575-703-7992
Contact email <a href="mailto:agroves@durangomidstream.com">agroves@durangomidstream.com</a>	Incident # (assigned by OCD)
Contact mailing address 47 Conoco Rd, Maljamar NM 88264	

### Location of Release Source

Latitude 32.76265 Longitude -103.62815  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Mal 7-2 Caviness 6" Pipeline	Site Type Pipeline
Date Release Discovered 10/24/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
H	11	18S	33E	Lea

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

### Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<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 type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls) 12	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf) 40.47	Volume Recovered (Mcf) 0
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

#### Cause of Release

External & Internal corrosion on bottom of pipeline. Underground pipeline release with soil impact.



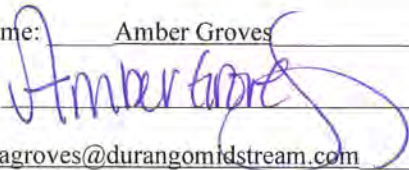
State of New Mexico  
Oil Conservation Division

Incident ID	nAPP2229930971
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?

**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: <u>Amber Groves</u>	Title: <u>Remediation Specialist</u>
Signature: <u></u>	Date: <u>10/26/2022</u>
email: <u>agroves@durangomidstream.com</u>	Telephone: <u>(575)703-7992</u>
<b><u>OCD Only</u></b>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>10/26/2022</u>





## Gas Volume Release Report

Gas Release Volume Calculator		
Date:	10/24/2022	
Site or Line Name:	MAL-7-2 Caviness 6" Steel Line	
Area of Hole in Pipe:	0.25	square inches
Absolute Pressure:	41.7	psia - absolute pressure (psia = psig gauge pressure + 14.7)
Duration of Release:	60.00	minutes
Actual Temperature:	50	Degrees F
Representative Gas Analysis	Please attach or email a representative gas analysis	
Constants		
Temperature at standard conditions:	60	Deg. F
Pressure at standard conditions:	14.7	PSIA
Volume of Gas - ACF	13.99	MACF
Volume of Gas - SCF	40.47	MSCF
Notes		
Entered by user		
Calculated Value		
Constant		



## Liquid Volume Release Report

Liquid Release Volume Calculator							
Date:	10/24/2022						
Site or Line Name:	MAL-7-2 Caviness 6" Steel Line						
Soil Type	Porosity	Length	Width	Depth (.083 per inch)	Cubic Feet	Estimated Barrels	Soil Type
Clay	0.15				0	0.00	Clay
Sandy Clay	0.12				0	0.00	Sandy Clay
Silt	0.16				0	0.00	Silt
Fine Sand	0.16				0	0.00	Fine Sand
Medium Sand	0.25	100	8.11	0.332	269.252	12.00	Medium Sand
Coarse Sand	0.26				0	0.00	Coarse Sand
Gravely Sand	0.26				0	0.00	Gravely Sand
Fine Gravel	0.26				0	0.00	Fine Gravel
Medium Gravel	0.20				0	0.00	Medium Gravel
Coarse Gravel	0.18				0	0.00	Coarse Gravel
Sandstone	0.25				0	0.00	Sandstone
Siltstone	0.18				0	0.00	Siltstone
Limestone	0.13				0	0.00	Limestone
Basalt	0.19				0	0.00	Basalt
Standing Liquids	X				0	0.00	Standing Liquids

Choose the one prevailing ground type for estimating spill volumes at a single location. Standing liquids are figured separately using the green cell.

Note that the depth should be measured in feet and tenths of feet (1 inch = .083)

Cubic Feet = L x W x D

Estimated Barrels = ((Cubic Feet x Porosity) / 5.61)

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

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

CONDITIONS  
  
Action 197983

CONDITIONS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 197983
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	4/20/2023