

Remediation Summary and Closure Request

Frontier Field Services, LLC Caviness to Bulldog 8" Lea County, New Mexico Unit Letter "M", Section 14, Township 18 South, Range 32 East Latitude 32.743141 North, Longitude 103.743819 West NMOCD Incident # nAPP2213839032

Prepared For:

Frontier Field Services, LLC 47 Conoco Rd Maljamar, NM 88264

Prepared By:

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

August 2022

Bradley Wells

Bradley Wells Project Manager bwells@hungry-horse.com

Daniel Domingue

Environmental Manager ddominguez@hungry-horse.com

Received by OCD: 8/16/2022 12:31:44 PM

Form C-141 Page 6

State of New Mexico Oil Conservation Division

Incident ID	nAPP2213839032
District RP	
Facility ID	
Application ID	1

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 Tit	e: femediation specialis
	- 8 10/2022
email: agroves a durangomid Stram, contrele	ohone: <u>575-703-7992</u>
OCD Only	
<u>ocd</u> only	
Received by:	Date:
Closure approval by the OCD does not relieve the responsible party of lial remediate contamination that poses a threat to groundwater, surface water, party of compliance with any other federal, state, or local laws and/or reg	human health, or the environment nor does not relieve the responsible
Closure Approved by:	Date: _08/17/2022
Printed Name: Jennifer Nobui	Title: Environmental Specialist A

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

Background:

The site is located in Unit Letter M (SW/SW), Section 14, Township 18 South, Range 32 East, approximately 8 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 32.743141 North, Longitude 103.743819 West. The Initial NMOCD Form C-141 indicated that on May 17, 2022 approximately 16.64 bbls of condensate and 25.65 Mcf of natural gas were released due to internal corrosion on the pipeline. A crew was dispatched to the release site and the line was repaired. Previously submitted pages of the NMOCD Form C-141 are available on the NMOCD Imaging System. NMOCD Form Initial C-141 is also included as Attachment VII.

NMOCD Site Classification:

A search of the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) groundwater databases was completed in an effort to determine the horizontal distance to known water sources within a half mile radius of the Release Site. Approximate depth to groundwater was determined using maintained and published water well data. Karst mapping indicates the site is not located in a Karst designated area. Karst and Wetland Maps are provided as Attachment I. Depth to groundwater information is provided as Attachment IV and the results are depicted on Figures 2 & 3.

No water wells were located within a half mile of the release area, therefore depth to groundwater could not be determined. Consequently, the site was delineated and further remediated according to the strictest NMOCD Closure Criteria. Utilizing this information, the NMOCD Closure Criteria for the Site were determined as follows:

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

Delineation and Remediation Activities:

On July 7 and 18, 2022, Hungry Horse conducted an initial site assessment and a series of sampling events. During the sampling events, hand augered soil bores were advanced in the release area and floor of the excavated area in an effort to determine the vertical extent of contamination. These sample locations are identified by SP designation. In addition, hand augered soil bores were advanced along the outside edges of the release area in an effort to determine the horizontal extent of contamination. These sample locations are identified by HZ designation. During the advancement of the soil bores, soil samples were collected and field screened for the presence of chloride concentrations utilizing a Hach Quantab[®] chloride test kit.

Based on field observations and field test data noted above and provided in Attachment V, sixteen representative soil samples were selected for laboratory analysis. Delineation soil samples SP1 through SP4, HZ1 through HZ4, were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in each of the submitted samples, with the exception of SP1 at Surface, SP2 at Surface, SP3 at three feet bgs, and SP4 at Surface, which exhibited TPH concentrations in excess of the NMOCD Closure Criteria.

From July 18-20, 2022, the release area was excavated to approximately four feet bgs and pipeline repair excavation was excavated to approximately eight feet bgs. Soil impacted above the NMOCD Closure Criteria was excavated and stockpiled on site, atop plastic, before transport to an NMOCD approved disposal facility.

The excavated area measured approximately one hundred feet in length, fifty feet in width, and four to eight feet in depth. During remediation activities approximately 528 cubic yards of impacted soil were excavated and hauled to an NMOCD approved disposal facility. Manifests can be provided upon request.

On July 27, 2022, twenty-four 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 FL17 and SW1 through SW7, 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.

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.

Based on laboratory analytical results, Frontier Field Services, LLC respectfully requests closure of the Caviness to Bulldog 8" location, nAPP2213839032.

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:

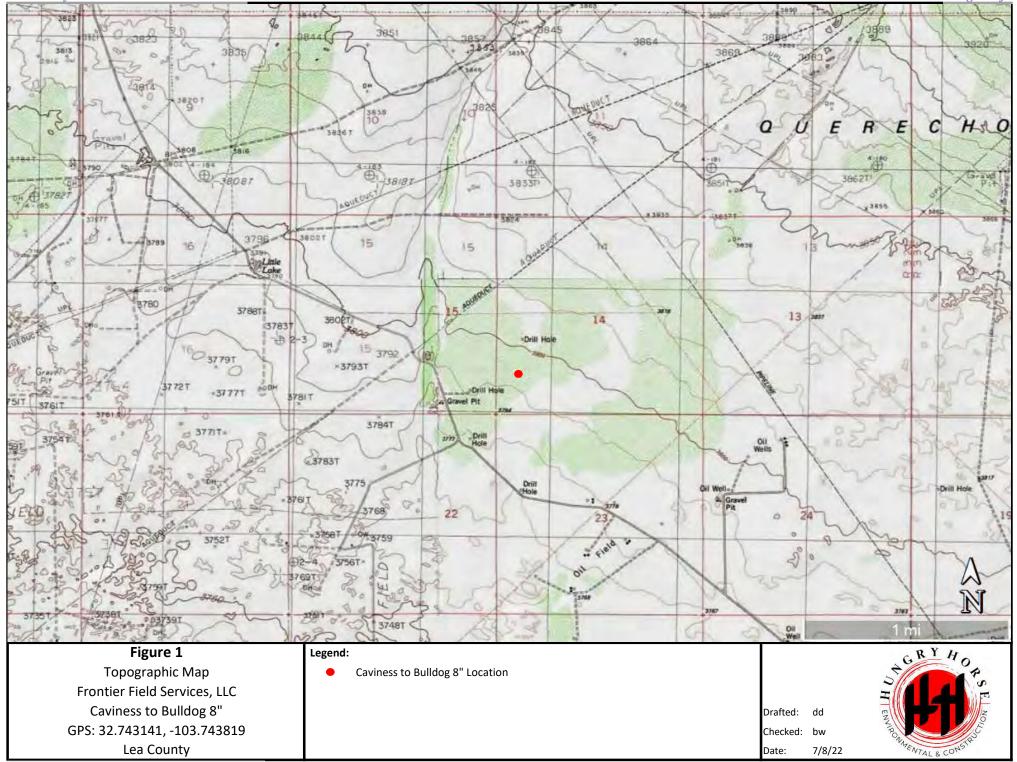
Frontier Field Services, LLC 47 Conoco Rd. Maljamar, NM 88264

New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 2 811 S. First St. Artesia, NM 88210

Caviness Ranch PO Box 29 Maljamar, NM 88264

Figures

Received by OCD: 8/16/2022 12:31:44 PM

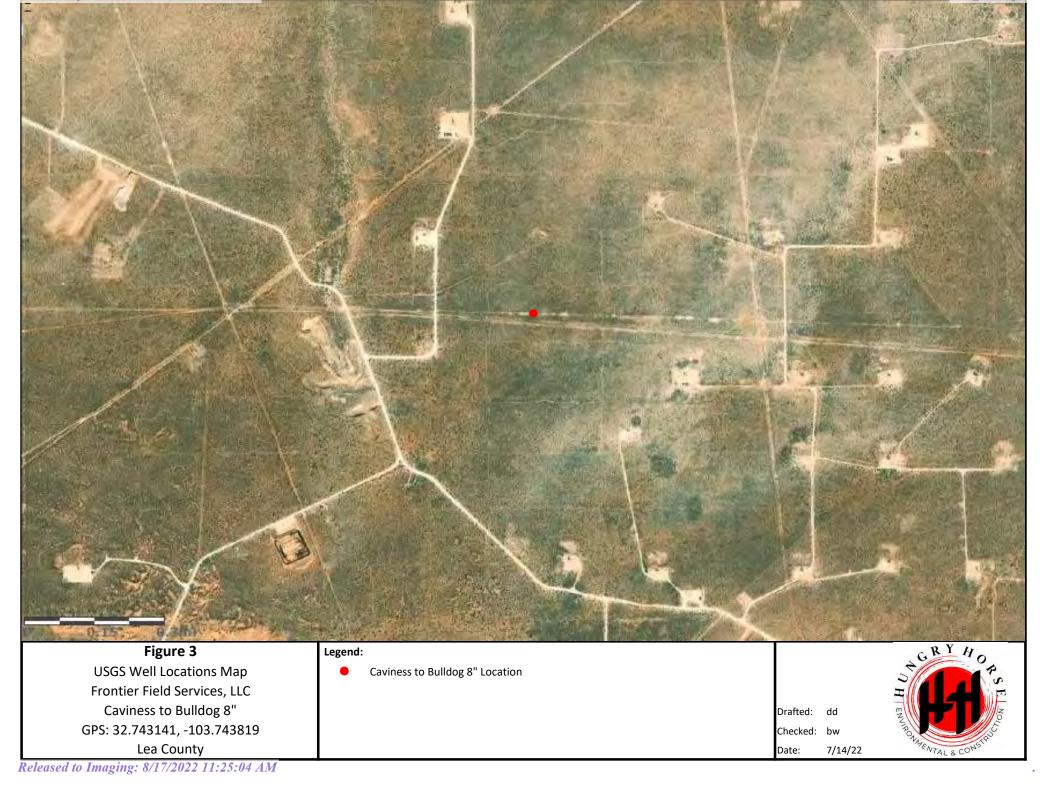


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Checked: bw

Date:

7/27/22

NTAL & CO



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Lea County

Table

TABLE 1 Summary of Soil Sample Laboratory Analytical Results Frontier Field Services, LLC Caviness to Bulldog 8" NMOCD Ref. #: nAPP2213839032

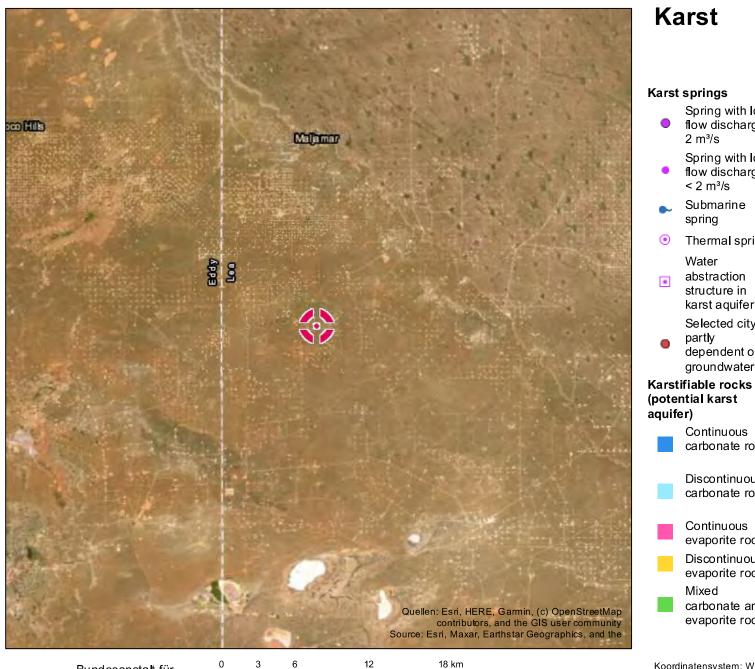
Sample ID	Date	Depth (ft)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀	DRO C ₁₀ -C ₂₈	GRO + DRO C ₆ -C ₂₈	ORO C ₂₈ -C ₃₆	TPH C ₆ -C ₃₆	Chloride (mg/kg)
		(,		(8/8/	(8/8/	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(8/8/
SP1	7/18/22	Surf	Excavated	<0.050	<0.300	<10.0	16,700	16,700	5,820	22,520	64.0
JFI	7/18/22	4	Excavated	<0.050	<0.300	<10.0	54.7	54.7	35.5	90.2	32.0
SP2	7/18/22	Surf	Excavated	<0.050	<0.300	<10.0	11,300	11,300	4,280	15,580	96.0
382	7/18/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SP3	7/18/22	3	Excavated	<0.050	<0.300	<10.0	378	378	65.1	443.1	128.0
555	7/18/22	8	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SP4	7/18/22	Surf	Excavated	<0.050	<0.300	<10.0	8,250	8,250	2,040	10,290	16.0
584	7/18/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
□71	7/18/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
HZ1	7/18/22	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
	7/18/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
HZ2	7/18/22	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
	7/18/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
HZ3	7/18/22	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
	7/18/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
HZ4	7/18/22	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL1	7/27/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
FL2	7/27/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL3	7/27/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL4	7/27/22	4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL5	7/27/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL6	7/27/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL7	7/27/22	4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL8	7/27/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL9	7/27/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL10	7/27/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL11	7/27/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL12	7/27/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL13	7/27/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL14	7/27/22	8	In-Situ	<0.050	<0.300	<10.0	10.6	10.6	<10.0	10.6	<16.0
FL15	7/27/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL16	7/27/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL17	7/27/22	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW1	7/27/22	4	In-Situ	<0.050	<0.300	<10.0	30.7	30.7	19.9	50.6	32.0
SW2	7/27/22	2	In-Situ	<0.050	<0.300	<10.0	16.6	16.6	<10.0	16.6	<16.0
SW3	7/27/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW4	7/27/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW5	7/27/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SW6	7/27/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW7	7/27/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
NMOCD (Closure Crite	ria		10	50	-	-	N/A	-	100	600

NOTES:

- = Sample not analyzed for that constituent. Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

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Attachment I Karst and Wetland Maps



1:288.895

Karst

Spring with low

flow discharge ≥

Spring with low flow discharge

Thermal spring

structure in karst aquifer

Selected city, partly dependent on groundwater

Continuous carbonate rocks

Discontinuous carbonate rocks

Continuous evaporite rocks Discontinuous evaporite rocks

carbonate and

evaporite rocks

Mixed

2 m³/s

 $< 2 m^{3}/s$ Submarine

spring

Water abstraction

Koordinatensystem: WGS 1984 Web Datum: WGS 1984 Mercator Auxiliary Sphere Projektion: Mercator Auxiliary Sphere Exportdatum: 11.08.2022

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und Rohstoffe

Bundesanstalt für

Geowissenschaften

RC



U.S. Fish and Wildlife Service National Wetlands Inventory

Wetlands

Lake

Other

Riverine



Freshwater Emergent Wetland

Freshwater Pond

Freshwater Forested/Shrub Wetland

National Wetlands Inventory (NWI) This page was produced by the NWI mapper

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Estuarine and Marine Deepwater

Estuarine and Marine Wetland

August 11, 2022

Wetlands

Attachment II NMOCD Correspondence

Daniel Dominguez

From:	Nobui, Jennifer, EMNRD <jennifer.nobui@state.nm.us></jennifer.nobui@state.nm.us>
Sent:	Monday, July 25, 2022 11:11 AM
То:	Daniel Dominguez
Cc:	Bratcher, Mike, EMNRD; Harimon, Jocelyn, EMNRD; Hamlet, Robert, EMNRD
Subject:	FW: [EXTERNAL] Closure Samples

Daniel

Thank you for the notification. 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: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Sent: Monday, July 25, 2022 10:59 AM
To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>
Subject: Fw: [EXTERNAL] Closure Samples

From: Daniel Dominguez <<u>ddominguez@hungry-horse.com</u>> Sent: Monday, July 25, 2022 7:27 AM To: Enviro, OCD, EMNRD <<u>OCD.Enviro@state.nm.us</u>> Subject: [EXTERNAL] Closure Samples

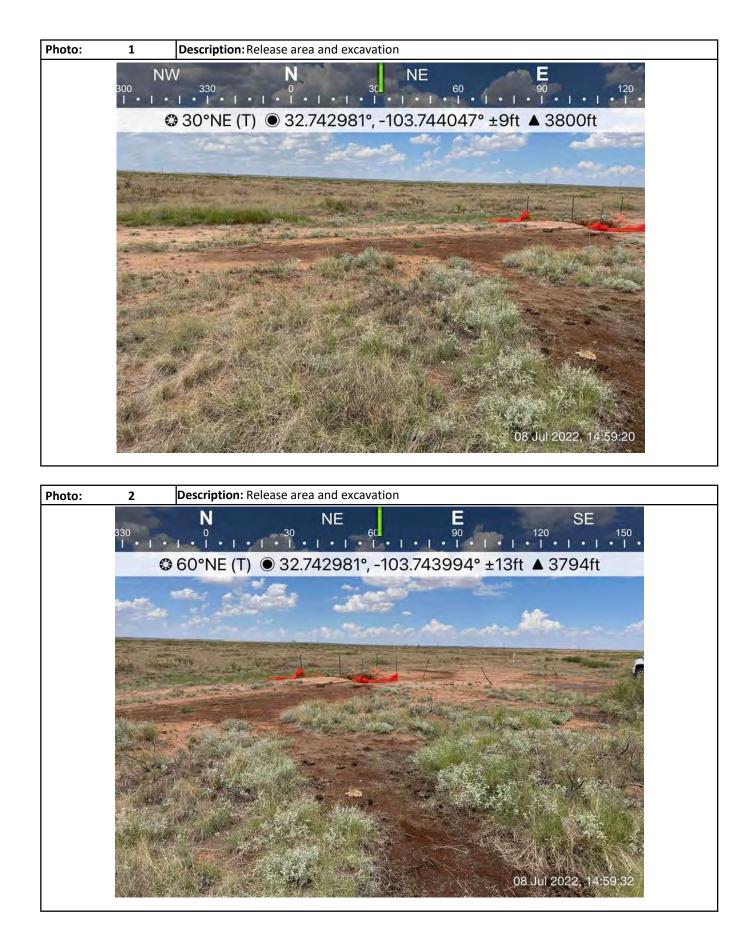
CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

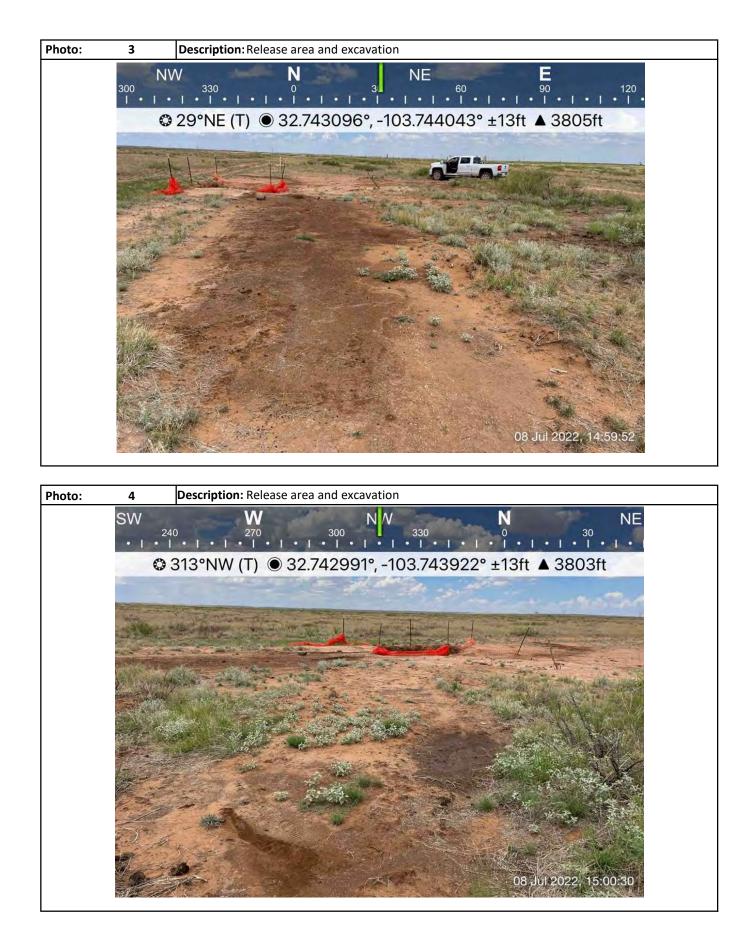
We will be collecting closure samples at the Caviness to Bulldog 8" (nAPP2213839032) on Wednesday, July 27, 2022 at 7 am. This is our 48 hour notice.

Thank you,

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

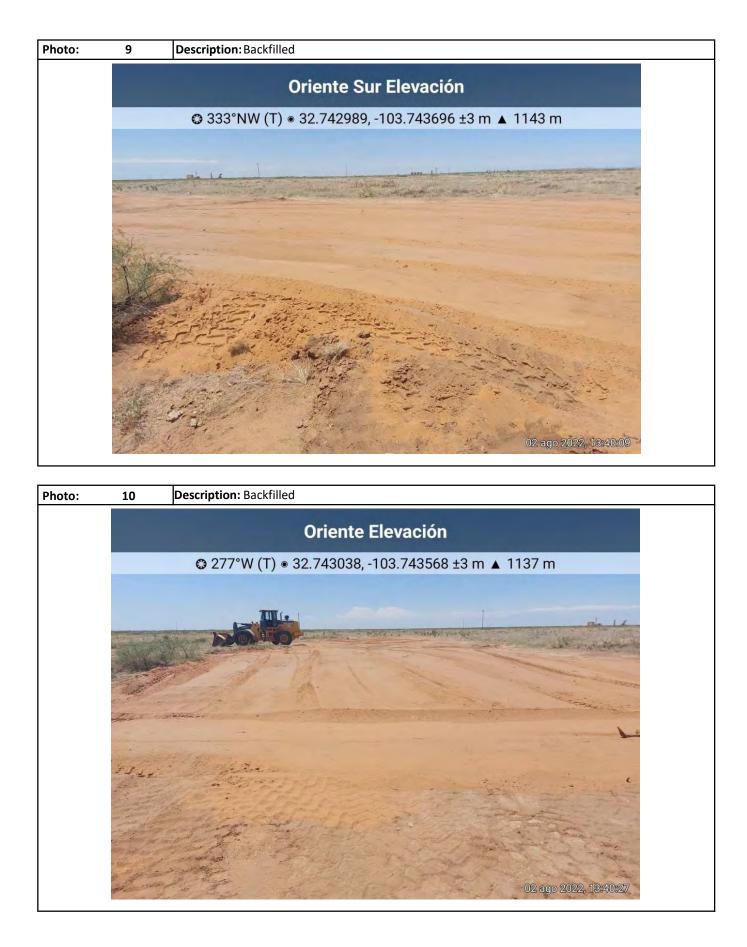
Attachment III Site Photographs















Attachment IV Depth to Groundwater

New Mexico Office of the State Engineer Wells with Well Log Information

				No wells found.	
UTMNAD83 Ra	idius Search <u>(in me</u>	ters):			
Easting (X):	617689.98	Northing (Y):	3623509.99	Radius: 805	
The data is furnished by particular purpose of the		is accepted by the recipient with	the expressed u	nderstanding that the OSE/ISC make no warranties, expressed or implied, concerni	ng the accuracy, completeness, reliability, usability, or suitability for any
7/14/22 1:52 PM					WELLS WITH WELL LOG INFORMATION

Attachment V Field Data

Hungry Horse, LLC

Sample Log

Project: Caviness to Bulldog 8"

Latitude: 32.743141

Longitude: -103.743819

7/18/22 B. Wells Date: ____ Sampler:

Sample ID	Depth	PID/Odor	Chloride	GPS
Spl	SUFF	TPH	126	626
1	1'	TPH	100	
	2'	Possible	80	
	31	NA	70	
	4	NA	60	Lab
			u -	
572	SUCF	TPH	L26	126
1	jt	TPH	L26 30	
	2'	Possible	10	
	31	NIA	10	
	41	NIA	20	620
				100
503	1800r.31	TPH	100	Sp3 is at exc. starts @ 3' LA
1	41	TPH	70	
	51	TPH	100	
	1,0	Possible		
	71	NIA	60 70	
	81	WIA	70	
504	SurF	TPH	LZh	626
PT	11	TPH	70	
	2'	Possible	60	
	21		60	
	31 41	NIM		124
		NIA	70	lab
Hzl	surf	Malia	2 1	Lab
pic-t	11	NIA	30	Lob
122	SURF		40	Lab
1100	540	NIA	50	
123	SUFF			
Mr J		NA	70 50	
11011		WIA	30	
M24	SURP	wIA	20	
		MIRI	20	¥
	-			
Sample Point = SP1				

Sidewall = SW1 etc

GPS Sample Points, Center of Comp Areas

ιµ Stockpile = Stockpile #1

Attachment VI Laboratory Analytical Reports



July 22, 2022

DANIEL DOMINGUEZ Hungry Horse Environmental P.O. Box 1058 Hobbs, NM 88240

RE: CAVINESS TO BULLDOG 8"

Enclosed are the results of analyses for samples received by the laboratory on 07/18/22 16:30.

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

Cardinal Laboratories is accreditated 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,

Whe Singh

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:	07/18/2022	Sampling Date:	07/18/2022
Reported:	07/22/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	UL / M SEC 14 T18S - R32E	Sample Received By:	Tamara Oldaker
Project Location:			

Sample ID: SP 1 - SURF (H223118-01)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	07/21/2022	ND	2.10	105	2.00	2.16	
Toluene*	<0.200	0.200	07/21/2022	ND	2.22	111	2.00	2.18	
Ethylbenzene*	<0.200	0.200	07/21/2022	ND	2.27	114	2.00	2.07	
Total Xylenes*	<0.600	0.600	07/21/2022	ND	7.02	117	6.00	2.73	
Total BTEX	<1.20	1.20	07/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/20/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	07/19/2022	ND	192	95.8	200	0.251	
DRO >C10-C28*	16700	50.0	07/19/2022	ND	205	103	200	0.171	
EXT DRO >C28-C36	5820	50.0	07/19/2022	ND					
Surrogate: 1-Chlorooctane	100 9	% 43-149)						
Surrogate: 1-Chlorooctadecane	601 9	% 42.5-16	51						

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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:	07/18/2022	Sampling Date:	07/18/2022
Reported:	07/22/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	UL / M SEC 14 T18S - R32E	Sample Received By:	Tamara Oldaker
Project Location:			

Sample ID: SP 1 - 4' (H223118-02)

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	07/21/2022	ND	2.10	105	2.00	2.16	
Toluene*	<0.050	0.050	07/21/2022	ND	2.22	111	2.00	2.18	
Ethylbenzene*	<0.050	0.050	07/21/2022	ND	2.27	114	2.00	2.07	
Total Xylenes*	<0.150	0.150	07/21/2022	ND	7.02	117	6.00	2.73	
Total BTEX	<0.300	0.300	07/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 69.9-14	0						
Chloride, SM4500Cl-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	07/20/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2022	ND	192	95.8	200	0.251	
DRO >C10-C28*	54.7	10.0	07/19/2022	ND	205	103	200	0.171	
EXT DRO >C28-C36	35.5	10.0	07/19/2022	ND					
Surrogate: 1-Chlorooctane	83.5	% 43-149)						
Surrogate: 1-Chlorooctadecane	94.8	% 42.5-16	1						

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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:	07/18/2022	Sampling Date:	07/18/2022
Reported:	07/22/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	UL / M SEC 14 T18S - R32E	Sample Received By:	Tamara Oldaker
Project Location:			

Sample ID: SP 2 - SURF (H223118-03)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2022	ND	2.10	105	2.00	2.16	
Toluene*	<0.050	0.050	07/21/2022	ND	2.22	111	2.00	2.18	
Ethylbenzene*	<0.050	0.050	07/21/2022	ND	2.27	114	2.00	2.07	
Total Xylenes*	<0.150	0.150	07/21/2022	ND	7.02	117	6.00	2.73	
Total BTEX	<0.300	0.300	07/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/20/2022	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*	<50.0	50.0	07/19/2022	ND	192	95.8	200	0.251	
DRO >C10-C28*	11300	50.0	07/19/2022	ND	205	103	200	0.171	
EXT DRO >C28-C36	4280	50.0	07/19/2022	ND					
Surrogate: 1-Chlorooctane	77.2	% 43-149)						
Surrogate: 1-Chlorooctadecane	382	% 42.5-16	1						

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



Analytical Results For:

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

Received:	07/18/2022	Sampling Date:	07/18/2022
Reported:	07/22/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	UL / M SEC 14 T18S - R32E	Sample Received By:	Tamara Oldaker
Project Location:			

Sample ID: SP 2 - 4' (H223118-04)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2022	ND	2.10	105	2.00	2.16	
Toluene*	<0.050	0.050	07/21/2022	ND	2.22	111	2.00	2.18	
Ethylbenzene*	<0.050	0.050	07/21/2022	ND	2.27	114	2.00	2.07	
Total Xylenes*	<0.150	0.150	07/21/2022	ND	7.02	117	6.00	2.73	
Total BTEX	<0.300	0.300	07/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/20/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2022	ND	192	95.8	200	0.251	
DRO >C10-C28*	<10.0	10.0	07/19/2022	ND	205	103	200	0.171	
EXT DRO >C28-C36	<10.0	10.0	07/19/2022	ND					
Surrogate: 1-Chlorooctane	85.2	% 43-149)						
Surrogate: 1-Chlorooctadecane	102	% 42.5-16	1						

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



Analytical Results For:

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

Received:	07/18/2022	Sampling Date:	07/18/2022
Reported:	07/22/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	UL / M SEC 14 T18S - R32E	Sample Received By:	Tamara Oldaker
Project Location:			

Sample ID: SP 3 - 8' (H223118-05)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2022	ND	2.10	105	2.00	2.16	
Toluene*	<0.050	0.050	07/21/2022	ND	2.22	111	2.00	2.18	
Ethylbenzene*	<0.050	0.050	07/21/2022	ND	2.27	114	2.00	2.07	
Total Xylenes*	<0.150	0.150	07/21/2022	ND	7.02	117	6.00	2.73	
Total BTEX	<0.300	0.300	07/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	118	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/20/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2022	ND	192	95.8	200	0.251	
DRO >C10-C28*	<10.0	10.0	07/19/2022	ND	205	103	200	0.171	
EXT DRO >C28-C36	<10.0	10.0	07/19/2022	ND					
Surrogate: 1-Chlorooctane	73.4	% 43-149)						
Surrogate: 1-Chlorooctadecane	81.4	% 42.5-16	1						

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



Analytical Results For:

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

Received:	07/18/2022	Sampling Date:	07/18/2022
Reported:	07/22/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	UL / M SEC 14 T18S - R32E	Sample Received By:	Tamara Oldaker
Project Location:			

Sample ID: SP 4 - SURF (H223118-06)

BTEX 8021B	mg	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2022	ND	2.10	105	2.00	2.16	
Toluene*	<0.050	0.050	07/21/2022	ND	2.22	111	2.00	2.18	
Ethylbenzene*	<0.050	0.050	07/21/2022	ND	2.27	114	2.00	2.07	
Total Xylenes*	<0.150	0.150	07/21/2022	ND	7.02	117	6.00	2.73	
Total BTEX	<0.300	0.300	07/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/20/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2022	ND	192	95.8	200	0.251	
DRO >C10-C28*	8250	10.0	07/19/2022	ND	205	103	200	0.171	
EXT DRO >C28-C36	2040	10.0	07/19/2022	ND					
Surrogate: 1-Chlorooctane	87.9	% 43-149)						
Surrogate: 1-Chlorooctadecane	253	42.5-16	1						

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



Analytical Results For:

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

Received:	07/18/2022	Sampling Date:	07/18/2022
Reported:	07/22/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	UL / M SEC 14 T18S - R32E	Sample Received By:	Tamara Oldaker
Project Location:			

Sample ID: SP 4 - 4' (H223118-07)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2022	ND	2.10	105	2.00	2.16	
Toluene*	<0.050	0.050	07/21/2022	ND	2.22	111	2.00	2.18	
Ethylbenzene*	<0.050	0.050	07/21/2022	ND	2.27	114	2.00	2.07	
Total Xylenes*	<0.150	0.150	07/21/2022	ND	7.02	117	6.00	2.73	
Total BTEX	<0.300	0.300	07/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/20/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2022	ND	192	95.8	200	0.251	
DRO >C10-C28*	<10.0	10.0	07/19/2022	ND	205	103	200	0.171	
EXT DRO >C28-C36	<10.0	10.0	07/19/2022	ND					
Surrogate: 1-Chlorooctane	77.0	% 43-149)						
Surrogate: 1-Chlorooctadecane	88.8	% 42.5-16	1						

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



Analytical Results For:

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

Received:	07/18/2022	Sampling Date:	07/18/2022
Reported:	07/22/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	UL / M SEC 14 T18S - R32E	Sample Received By:	Tamara Oldaker
Project Location:			

Sample ID: HZ 1 - SURF (H223118-08)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2022	ND	2.10	105	2.00	2.16	
Toluene*	<0.050	0.050	07/21/2022	ND	2.22	111	2.00	2.18	
Ethylbenzene*	<0.050	0.050	07/21/2022	ND	2.27	114	2.00	2.07	
Total Xylenes*	<0.150	0.150	07/21/2022	ND	7.02	117	6.00	2.73	
Total BTEX	<0.300	0.300	07/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/20/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2022	ND	192	95.8	200	0.251	
DRO >C10-C28*	<10.0	10.0	07/19/2022	ND	205	103	200	0.171	
EXT DRO >C28-C36	<10.0	10.0	07/19/2022	ND					
Surrogate: 1-Chlorooctane	79.0	% 43-149)						
Surrogate: 1-Chlorooctadecane	88.5	% 42.5-16	1						

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



Analytical Results For:

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

Received:	07/18/2022	Sampling Date:	07/18/2022
Reported:	07/22/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	UL / M SEC 14 T18S - R32E	Sample Received By:	Tamara Oldaker
Project Location:			

Sample ID: HZ 1 - 1 (H223118-09)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2022	ND	2.10	105	2.00	2.16	
Toluene*	<0.050	0.050	07/21/2022	ND	2.22	111	2.00	2.18	
Ethylbenzene*	<0.050	0.050	07/21/2022	ND	2.27	114	2.00	2.07	
Total Xylenes*	<0.150	0.150	07/21/2022	ND	7.02	117	6.00	2.73	
Total BTEX	<0.300	0.300	07/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/20/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2022	ND	219	110	200	1.18	
DRO >C10-C28*	<10.0	10.0	07/19/2022	ND	227	114	200	3.70	
EXT DRO >C28-C36	<10.0	10.0	07/19/2022	ND					
Surrogate: 1-Chlorooctane	104	% 43-149)						
Surrogate: 1-Chlorooctadecane	106	% 42.5-16	1						

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



Analytical Results For:

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

Received:	07/18/2022	Sampling Date:	07/18/2022
Reported:	07/22/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	UL / M SEC 14 T18S - R32E	Sample Received By:	Tamara Oldaker
Project Location:			

Sample ID: HZ 2 - SURF (H223118-10)

BTEX 8021B	mg	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2022	ND	2.10	105	2.00	2.16	
Toluene*	<0.050	0.050	07/21/2022	ND	2.22	111	2.00	2.18	
Ethylbenzene*	<0.050	0.050	07/21/2022	ND	2.27	114	2.00	2.07	
Total Xylenes*	<0.150	0.150	07/21/2022	ND	7.02	117	6.00	2.73	
Total BTEX	<0.300	0.300	07/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/20/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2022	ND	219	110	200	1.18	
DRO >C10-C28*	<10.0	10.0	07/19/2022	ND	227	114	200	3.70	
EXT DRO >C28-C36	<10.0	10.0	07/19/2022	ND					
Surrogate: 1-Chlorooctane	91.9	% 43-149)						
Surrogate: 1-Chlorooctadecane	95.1	% 42.5-16	1						

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



Analytical Results For:

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

Received:	07/18/2022	Sampling Date:	07/18/2022
Reported:	07/22/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	UL / M SEC 14 T18S - R32E	Sample Received By:	Tamara Oldaker
Project Location:			

Sample ID: HZ 2 - 1' (H223118-11)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2022	ND	2.10	105	2.00	2.16	
Toluene*	<0.050	0.050	07/21/2022	ND	2.22	111	2.00	2.18	
Ethylbenzene*	<0.050	0.050	07/21/2022	ND	2.27	114	2.00	2.07	
Total Xylenes*	<0.150	0.150	07/21/2022	ND	7.02	117	6.00	2.73	
Total BTEX	<0.300	0.300	07/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/20/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2022	ND	219	110	200	1.18	
DRO >C10-C28*	<10.0	10.0	07/19/2022	ND	227	114	200	3.70	
EXT DRO >C28-C36	<10.0	10.0	07/19/2022	ND					
Surrogate: 1-Chlorooctane	97.4	% 43-149)						
Surrogate: 1-Chlorooctadecane	101 9	42.5-16	1						

Cardinal Laboratories

*=Accredited Analyte

Mite Sugar

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



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

Received:	07/18/2022	Sampling Date:	07/18/2022
Reported:	07/22/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	UL / M SEC 14 T18S - R32E	Sample Received By:	Tamara Oldaker
Project Location:			

Sample ID: HZ 3 - SURF (H223118-12)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2022	ND	2.10	105	2.00	2.16	
Toluene*	<0.050	0.050	07/21/2022	ND	2.22	111	2.00	2.18	
Ethylbenzene*	<0.050	0.050	07/21/2022	ND	2.27	114	2.00	2.07	
Total Xylenes*	<0.150	0.150	07/21/2022	ND	7.02	117	6.00	2.73	
Total BTEX	<0.300	0.300	07/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/20/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2022	ND	219	110	200	1.18	
DRO >C10-C28*	<10.0	10.0	07/19/2022	ND	227	114	200	3.70	
EXT DRO >C28-C36	<10.0	10.0	07/19/2022	ND					
Surrogate: 1-Chlorooctane	91.2	% 43-149)						
Surrogate: 1-Chlorooctadecane	95.8	% 42.5-16	1						

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*=Accredited Analyte

Mite Sugar

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



Analytical Results For:

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

Received:	07/18/2022	Sampling Date:	07/18/2022
Reported:	07/22/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	UL / M SEC 14 T18S - R32E	Sample Received By:	Tamara Oldaker
Project Location:			

Sample ID: HZ 3 - 1' (H223118-13)

BTEX 8021B	mg,	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2022	ND	2.10	105	2.00	2.16	
Toluene*	<0.050	0.050	07/21/2022	ND	2.22	111	2.00	2.18	
Ethylbenzene*	<0.050	0.050	07/21/2022	ND	2.27	114	2.00	2.07	
Total Xylenes*	<0.150	0.150	07/21/2022	ND	7.02	117	6.00	2.73	
Total BTEX	<0.300	0.300	07/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	69.9-14	0						
Chloride, SM4500Cl-B	mg,	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/20/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2022	ND	219	110	200	1.18	
DRO >C10-C28*	<10.0	10.0	07/19/2022	ND	227	114	200	3.70	
EXT DRO >C28-C36	<10.0	10.0	07/19/2022	ND					
Surrogate: 1-Chlorooctane	88.0	% 43-149)						
Surrogate: 1-Chlorooctadecane	92.6	% 42.5-16	1						

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Mite Sugar

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



Analytical Results For:

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

Received:	07/18/2022	Sampling Date:	07/18/2022
Reported:	07/22/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	UL / M SEC 14 T18S - R32E	Sample Received By:	Tamara Oldaker
Project Location:			

Sample ID: HZ 4 - SURF (H223118-14)

BTEX 8021B	mg	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2022	ND	2.10	105	2.00	2.16	
Toluene*	<0.050	0.050	07/21/2022	ND	2.22	111	2.00	2.18	
Ethylbenzene*	<0.050	0.050	07/21/2022	ND	2.27	114	2.00	2.07	
Total Xylenes*	<0.150	0.150	07/21/2022	ND	7.02	117	6.00	2.73	
Total BTEX	<0.300	0.300	07/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/20/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2022	ND	219	110	200	1.18	
DRO >C10-C28*	<10.0	10.0	07/19/2022	ND	227	114	200	3.70	
EXT DRO >C28-C36	<10.0	10.0	07/19/2022	ND					
Surrogate: 1-Chlorooctane	93.6	% 43-149)						
Surrogate: 1-Chlorooctadecane	98.1	% 42.5-16	1						

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Mite Sugar

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



Analytical Results For:

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

Received:	07/18/2022	Sampling Date:	07/18/2022
Reported:	07/22/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	UL / M SEC 14 T18S - R32E	Sample Received By:	Tamara Oldaker
Project Location:			

Sample ID: HZ 4 - 1' (H223118-15)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2022	ND	2.10	105	2.00	2.16	
Toluene*	<0.050	0.050	07/21/2022	ND	2.22	111	2.00	2.18	
Ethylbenzene*	<0.050	0.050	07/21/2022	ND	2.27	114	2.00	2.07	
Total Xylenes*	<0.150	0.150	07/21/2022	ND	7.02	117	6.00	2.73	
Total BTEX	<0.300	0.300	07/21/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/20/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2022	ND	219	110	200	1.18	
DRO >C10-C28*	<10.0	10.0	07/19/2022	ND	227	114	200	3.70	
EXT DRO >C28-C36	<10.0	10.0	07/19/2022	ND					
Surrogate: 1-Chlorooctane	85.9	% 43-149)						
Surrogate: 1-Chlorooctadecane	90.6	% 42.5-16	1						

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



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.
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
ND RPD **	Analyte NOT DETECTED at or above the reporting limit 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

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Mite Sugar

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

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

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ame:	Caviness to Bulldog 8"	8		I							S	State: NM	Z	Σ	N	Zip: 88264								
¥ L	1: UL/ M Sec 14 T18S - R32E	18S - R3	2E								P	hor	le #	 (T)	75-	Phone #: 575-703-7992								
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4223118 Lab I.D.	Sample I.D.	e I.D.		(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL		OTHER :	DATE	TIME	Chloride	трн	BTEX 8021				
-	SP1-Surf			G	-			×				-		×	-	7/18/22		×	×	×				
2	SP1-4'			G	-			×		1	+	+	-	×	-	7/18/22		×	×	×				
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	STAR BU			5	1			*		+	+-	+	-	1	+	7/18/22		THE A	Ħ	1				
S	SP3-8'			G	-			×	-	-	+	+		×	-	7/18/22		×	×	×				
6	SP4-Surf			G	-			×	-	-	-	-	-	×	-	7/18/22		×	×	×				
7	SP4-4'			G	-			×	-		-	-	-	×		7/18/22		×	×	×				
A	HZ1-Surf			G	-			×	-	-	-	-	-	×		7/18/22		×	×	×				
9	HZ1-1'			G				×	-	\vdash	\vdash	\vdash		×		7/18/22		×	×	×	L			
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† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

s, NM 88240

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(575) 393-2326 FAX (575)	101 East Marland, Hobbs, NM 88	Laboratorie	CARDINA
575) 393-2	MM 88	S	-

Page 51 of 93

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(575) 393-2326 FAX (575) 393-24/6	FAX (5	75) 393-24	476	L	L	L		L	L	4	ι.	L.	L		21	- +0							Vele		21	Fol	
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Project Manager:	Daniel Dominguez	ez									-	P.O. #:							_	_					1	_		
Address: PO Bo	PO Box 1058										-	8	B	an	×	Fro	Company Frontier Field Services, LLC	ces, LLC			_					_		
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12 H	HZ3-Surf			G	-			×	~						×		7/18/22		×	×	×			T	1	-		
121	HZ3-1'			G	-			×	r	-					×		7/18/22		×	×	×			T		-		
141	HZ4-Surf			G	1			×	1	-					×		7/18/22		×	×	×			T	t	-		T
15	HZ4-1'			G	-		-	×	-	-				-	×		7/18/22		×	×	×					-		
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PLEASE NOTE: Liability and analyses. All claims including	PIEASE NOTE: Liability and Damages. Cardinal's liability and client's enclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed wived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed wived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed wived unless made in writing and received by Clardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed wived unless made in writing and received by Clardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed wived unless made in writing and received by Clardinal within 30 days after completion of the applicable analyses. All claims including without imitiation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries.	nd client's excl other cause wh	usive remedy for a natsoever shall be o famages, including	ny claim an deemed wa	sing	wheth unles	her ba	s inte	n con	g an	or to	cived us	e, or	e lim	of p	no th	a amount paid by the o 30 days after comple incurred by client, its a	lient for the tion of the applica uubsidiaries,	able									
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Received by OCD: 8/16/2022 12:31:44 PM 71



July 25, 2022

DANIEL DOMINGUEZ Hungry Horse Environmental P.O. Box 1058 Hobbs, NM 88240

RE: CAVINESS TO BULLDOG 8"

Enclosed are the results of analyses for samples received by the laboratory on 07/19/22 15:03.

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/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	07/19/2022	Sampling Date:	07/18/2022
Reported:	07/25/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL / M SEC 14 T18S - R32E		

Sample ID: SP 3 - 3' (H223132-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/22/2022	ND	2.09	104	2.00	6.65	
Toluene*	<0.050	0.050	07/22/2022	ND	2.09	104	2.00	3.81	
Ethylbenzene*	<0.050	0.050	07/22/2022	ND	2.14	107	2.00	6.87	
Total Xylenes*	<0.150	0.150	07/22/2022	ND	6.56	109	6.00	7.38	
Total BTEX	<0.300	0.300	07/22/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/20/2022	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2022	ND	218	109	200	3.29	
DRO >C10-C28*	378	10.0	07/21/2022	ND	228	114	200	1.93	
EXT DRO >C28-C36	65.1	10.0	07/21/2022	ND					
Surrogate: 1-Chlorooctane	86.2	% 43-149)						
Surrogate: 1-Chlorooctadecane	97.1	% 42.5-16	1						

Cardinal Laboratories

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

10																											_ e
Company Name:	Hungry Horse LLC	LC	000-2	410											RII TO						NAL	Veic			1		 Pag
Project Manager:	Daniel Dominguez	Z									P.O.	2	#							,	MINALIOIO	1010	NEC	NEWDEST			
Address: PO Box 1058	1058										0	ă l	an	Y TI	Company Frontier Field Services,	vices, LLC											Г
City: Hobbs		State: NM	_	Zip:		88241	241				At	Attn:	P	nbe	Amber Groves												
Phone #: 575 393-3386		Fax #:									A	Idre	SS	4	Address: 47 Conoco Rd												
Project #:		Project Owner:	ner:	Frontier Field Services, LLC	tier	Field	Ser	Nice	S, L		City:	3	N	alja	Maljamar												
Project Name: Cavi	Caviness to Bulldog 8"	9ª									Sta	State: NM		5	Zip: 88264												
Project Location:	UL/ M Sec 14 T18S - R32E	8S - R32E									Ph	n	#	5	Phone #: 575-703-7992												
Sampler Name:	Bradley Wells										Fa	Fax #:	-	h													
FOR LAB USE ONLY							-	MATRIX	꽃		Г	PR	PRESERV.	B	SAMPLING	G	_			_							
Lab I.D.	Sample I.D.	I.D.		(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL		SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :		TIME	Chloride	ТРН	BTEX 8021								
_	2			_	-	-	-	-	+	SI	0	A	IC	0	t	TIME	c	TI	В	L	L	L					
(SP3-3'	ίų.			G			_	×		-			×		7/18/22		×	×	×								
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Tables All claims including those for negligence and any other cause whatsever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable rinker. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use of profits incurred by client, its subsidiaries, filiates or successors arising out of or regleted to the beformance of services hereunder by Cardinal matterior so of use or loss of profits incurred by client, its subsidiaries, filiates or successors arising out of or regleted to the beformance of services hereunder by Cardinal matteriors of use or use of use or use or loss of profits incurred by client, its subsidiaries, filiates or successors arising out of or regleted to the beformance of services hereunder by Cardinal matteriors of use or use or use or use of	r. Cercenter's naturity and cire r negligence and any other c lable for incidental or consec- lable to the berformance	Ins exclusive remedy for any claim ansing whether base rause whatscover shall be deemed waived unless made i quental damages, including without limitation, business in of sontices hereunder by Cardinal momentaes of whether	dy for any hall be dee ncluding wi fer by Carr	chaim arisi med waiv thout limit	ng whe ed unit ation, b	ether I less m busines	ade in as inte	writin	g and g and bins, lo	recei	ved b	y Can or los	final v	to the within	amount paid by the c 30 days after complet incurred by client, its s	lient for the lion of the applicat ubsidiaries,	de										
Relinquished By:	1/10	Date: 7-19-22	2	Received By:	eive	dB	Y:	NNI					2	2	11	Fax Result:		□ Yes	O No		Add'l Phone #: Add'l Fax #:	one #:					
Relinquished By:	and	Date:	U)	Received By:	eive	dB	× C	a	1 h		R	A	10		Jeller .	REMARKS: Email results	S 1	to: p	pm@hungry-horse.com	ngry-h	orse.c	iom					
Dalivarad But 10iz		Time:																8	agroves@durangomidstream.com	@dura	mogur	iidstre	am.co	m			
Sampler - UPS - Bus	- Other:	2 2 2 2	H1 -0.6	12		S S G C	Cool Intact	Yes That	e Condi	tes		1	4 _ 8	O nit S	(Initials)												
Cardinal cannot accept verbal changes. Please fax written changes to 575.303.2476	ent verbal chan	mae Diage		ŀ	ŀ			ĉ	-	100			-	1	,												,



August 01, 2022

DANIEL DOMINGUEZ Hungry Horse Environmental P.O. Box 1058 Hobbs, NM 88240

RE: CAVINESS TO BULLDOG 8"

Enclosed are the results of analyses for samples received by the laboratory on 07/27/22 14:33.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	07/27/2022	Sampling Date:	07/27/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL / M SEC 14 T18S - R32E		

Sample ID: SW 1 (H223319-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2022	ND	1.74	86.8	2.00	7.97	
Toluene*	<0.050	0.050	07/29/2022	ND	1.94	97.2	2.00	7.78	
Ethylbenzene*	<0.050	0.050	07/29/2022	ND	1.84	92.2	2.00	8.94	
Total Xylenes*	<0.150	0.150	07/29/2022	ND	5.67	94.6	6.00	11.0	
Total BTEX	<0.300	0.300	07/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/29/2022	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2022	ND	216	108	200	0.819	
DRO >C10-C28*	30.7	10.0	07/29/2022	ND	200	100	200	1.20	
EXT DRO >C28-C36	19.9	10.0	07/29/2022	ND					
Surrogate: 1-Chlorooctane	114	% 43-149)						
Surrogate: 1-Chlorooctadecane	120	% 42.5-16	1						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/27/2022	Sampling Date:	07/27/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL / M SEC 14 T18S - R32E		

Sample ID: SW 2 (H223319-02)

BTEX 8021B	mg	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2022	ND	1.74	86.8	2.00	7.97	
Toluene*	<0.050	0.050	07/29/2022	ND	1.94	97.2	2.00	7.78	
Ethylbenzene*	<0.050	0.050	07/29/2022	ND	1.84	92.2	2.00	8.94	
Total Xylenes*	<0.150	0.150	07/29/2022	ND	5.67	94.6	6.00	11.0	
Total BTEX	<0.300	0.300	07/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/29/2022	ND	416	104	400	0.00	
TPH 8015M	mg	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2022	ND	216	108	200	0.819	
DRO >C10-C28*	16.6	10.0	07/29/2022	ND	200	100	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	07/29/2022	ND					
Surrogate: 1-Chlorooctane	93.6	% 43-149)						
Surrogate: 1-Chlorooctadecane	97.7	% 42.5-16	1						

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/27/2022	Sampling Date:	07/27/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL / M SEC 14 T18S - R32E		

Sample ID: SW 3 (H223319-03)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2022	ND	1.74	86.8	2.00	7.97	
Toluene*	<0.050	0.050	07/29/2022	ND	1.94	97.2	2.00	7.78	
Ethylbenzene*	<0.050	0.050	07/29/2022	ND	1.84	92.2	2.00	8.94	
Total Xylenes*	<0.150	0.150	07/29/2022	ND	5.67	94.6	6.00	11.0	
Total BTEX	<0.300	0.300	07/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/29/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2022	ND	216	108	200	0.819	
DRO >C10-C28*	<10.0	10.0	07/29/2022	ND	200	100	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	07/29/2022	ND					
Surrogate: 1-Chlorooctane	106 9	% 43-149)						
Surrogate: 1-Chlorooctadecane	109 \$	% 42.5-16	1						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/27/2022	Sampling Date:	07/27/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL / M SEC 14 T18S - R32E		

Sample ID: SW 4 (H223319-04)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2022	ND	1.74	86.8	2.00	7.97	
Toluene*	<0.050	0.050	07/29/2022	ND	1.94	97.2	2.00	7.78	
Ethylbenzene*	<0.050	0.050	07/29/2022	ND	1.84	92.2	2.00	8.94	
Total Xylenes*	<0.150	0.150	07/29/2022	ND	5.67	94.6	6.00	11.0	
Total BTEX	<0.300	0.300	07/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/29/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2022	ND	216	108	200	0.819	
DRO >C10-C28*	<10.0	10.0	07/29/2022	ND	200	100	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	07/29/2022	ND					
Surrogate: 1-Chlorooctane	90.5	% 43-149)						
Surrogate: 1-Chlorooctadecane	95.6	% 42.5-16	1						

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/27/2022	Sampling Date:	07/27/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL / M SEC 14 T18S - R32E		

Sample ID: SW 5 (H223319-05)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2022	ND	1.74	86.8	2.00	7.97	
Toluene*	<0.050	0.050	07/29/2022	ND	1.94	97.2	2.00	7.78	
Ethylbenzene*	<0.050	0.050	07/29/2022	ND	1.84	92.2	2.00	8.94	
Total Xylenes*	<0.150	0.150	07/29/2022	ND	5.67	94.6	6.00	11.0	
Total BTEX	<0.300	0.300	07/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/29/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2022	ND	216	108	200	0.819	
DRO >C10-C28*	<10.0	10.0	07/29/2022	ND	200	100	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	07/29/2022	ND					
Surrogate: 1-Chlorooctane	99.4	% 43-149)						
Surrogate: 1-Chlorooctadecane	106	42.5-16	1						

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/27/2022	Sampling Date:	07/27/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL / M SEC 14 T18S - R32E		

Sample ID: SW 6 (H223319-06)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2022	ND	1.74	86.8	2.00	7.97	
Toluene*	<0.050	0.050	07/29/2022	ND	1.94	97.2	2.00	7.78	
Ethylbenzene*	<0.050	0.050	07/29/2022	ND	1.84	92.2	2.00	8.94	
Total Xylenes*	<0.150	0.150	07/29/2022	ND	5.67	94.6	6.00	11.0	
Total BTEX	<0.300	0.300	07/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/29/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2022	ND	216	108	200	0.819	
DRO >C10-C28*	<10.0	10.0	07/29/2022	ND	200	100	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	07/29/2022	ND					
Surrogate: 1-Chlorooctane	87.3	% 43-149)						
Surrogate: 1-Chlorooctadecane	92.0	% 42.5-16	1						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/27/2022	Sampling Date:	07/27/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL / M SEC 14 T18S - R32E		

Sample ID: SW 7 (H223319-07)

BTEX 8021B	mg,	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2022	ND	1.74	86.8	2.00	7.97	
Toluene*	<0.050	0.050	07/29/2022	ND	1.94	97.2	2.00	7.78	
Ethylbenzene*	<0.050	0.050	07/29/2022	ND	1.84	92.2	2.00	8.94	
Total Xylenes*	<0.150	0.150	07/29/2022	ND	5.67	94.6	6.00	11.0	
Total BTEX	<0.300	0.300	07/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/29/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2022	ND	216	108	200	0.819	
DRO >C10-C28*	<10.0	10.0	07/29/2022	ND	200	100	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	07/29/2022	ND					
Surrogate: 1-Chlorooctane	84.5	% 43-149	1						
Surrogate: 1-Chlorooctadecane	89.5	% 42.5-16	1						

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*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

CARDINAL

CHAIN-OF-CUSTONY AND ANALYSIS J ٦ 2

Received by OCD: 8/16/2022 12:31:44 PM

s lan N	TUT East Mariand, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 ame: Hungry Horse LLC ager: Daniel Dominguez PO Box 1058 State: NM 2 bs State: NM 2	FAX (575) 393 LC ez State: NM	-2476 Zip: 88241	P.O. # Compa	BILL TO P.O. #: Company Frontier Field Services, LLC Attn: Amber Groves	bervices, LLC		
e #:	575 393-3386	State: NM Fax #:		Attn: Addres	Attn: Amber Groves Address: 47 Conoco Rd	d		
Project #:		Project Owner:	Frontier Field Services, LLC	City:	Maljamar			
Project Name:	Caviness to Bulldog 8"	8		**	NM Zip: 88264	O I	4	4
Project Location:	n: UL/ M Sec 14 T18S - R32E	18S - R32E		Phone #:	575	e l	92	92
Sampler Name:	Bradley Wells			Fax #:				
FOR LAB USE ONLY			-	MATRIX PRE	PRESERV. SAMI	2	SAMPLING	PLING
Lab I.D. HZZ3319	Sample I.D.	I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER	SOIL OIL SLUDGE OTHER : ACID/BASE:	ICE / COOL OTHER : DATE		The second secon	TIME
5	SW1		-		-		+	×
2	SW2		1			-	×	+
60	SW3		C 1	X			×	+
4	SW4		1				×	-
5	SW5		C 1	X			×	+
6	SM6		C 1	×	X 7/27/22		X	-
7	SW7		C 1	×	X 7/27/22		×	X X
analyses. All claims includin service. In no event shall Ca affiliates or successors arisin	A CANCE WAYEL ANNUEL ANNUES CANTINES BADING and Cleart's exclusive remody for any stem arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All clients including those for negligence and any other cause whatsoever shall be deemed waived unsets made in writing and received by Cardinal writin 30 days after completion of the applicabl service. In no event shall Cardinal be liable for indicental or consequential damages, including without limited on 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 wavefues or work claims in event shall be based incurred by Client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal reserved and any client.	ient's exclusive remedy for any r cause whatsoever shall be dee equental damages, including wi e of services hereunder by Carc	is exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the see whatsoever shall be deemed waived unless made in writing and received by Catrinal within 30 days after completion of the initial damages, including without limitation, business interruptions, loss or use, or loss of profits incurred by client, its subsidiaries services hereunder by Cardinal incorationes of whother profits in the second use, or now on the structured by client, its subsidiaries services hereunder by Cardinal incorationes of whother profits in the second use, or now on the structured by client, its subsidiaries services hereunder by Cardinal incorationes of whother profits in the second use of the structured the client.	n contract or tort, shall be limi writing and received by Cardir ruptions, loss of use, or loss of work claim is based upon service	ited to the amount paid by the client for the nal within 30 days after completion of the a of profits incurred by client, its subsidiaries, of the sub-	tis s	lient for the tion of the applicable subsidiaries,	lient for the tion of the applicable subsidiaries,
Relinquished By	1 2 DU	5	Received, By:	NNN	111	סי	Phone Result: Fax Result:	hone Result:
Relinguished By	"WAUN	Time;433 Date: Time:	Received By:	Na (Litt	all of		REMARKS: Email result	: Its to
Delivered By: (Circle One) Sampler - UPS - Bus - Other	10	.42 C-0	# # # # # # # No Sample C Cool In H No No	Sample Condition C Cool Intact Pres Pres O No No	(Initials)			
Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476					1			



August 01, 2022

DANIEL DOMINGUEZ Hungry Horse Environmental P.O. Box 1058 Hobbs, NM 88240

RE: CAVINESS TO BULLDOG 8"

Enclosed are the results of analyses for samples received by the laboratory on 07/27/22 14:33.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

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

Received:	07/27/2022	Sampling Date:	07/27/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL / M SEC 14 T18S - R32E		

Sample ID: FL 1 (H223320-01)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2022	ND	1.74	86.8	2.00	7.97	
Toluene*	<0.050	0.050	07/29/2022	ND	1.94	97.2	2.00	7.78	
Ethylbenzene*	<0.050	0.050	07/29/2022	ND	1.84	92.2	2.00	8.94	
Total Xylenes*	<0.150	0.150	07/29/2022	ND	5.67	94.6	6.00	11.0	
Total BTEX	<0.300	0.300	07/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/29/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2022	ND	216	108	200	0.819	
DRO >C10-C28*	<10.0	10.0	07/29/2022	ND	200	100	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	07/29/2022	ND					
Surrogate: 1-Chlorooctane	87.8	% 43-149	1						
Surrogate: 1-Chlorooctadecane	92.7	% 42.5-16	1						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	07/27/2022	Sampling Date:	07/27/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL / M SEC 14 T18S - R32E		

Sample ID: FL 2 (H223320-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2022	ND	1.74	86.8	2.00	7.97	
Toluene*	<0.050	0.050	07/29/2022	ND	1.94	97.2	2.00	7.78	
Ethylbenzene*	<0.050	0.050	07/29/2022	ND	1.84	92.2	2.00	8.94	
Total Xylenes*	<0.150	0.150	07/29/2022	ND	5.67	94.6	6.00	11.0	
Total BTEX	<0.300	0.300	07/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/29/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2022	ND	216	108	200	0.819	
DRO >C10-C28*	<10.0	10.0	07/29/2022	ND	200	100	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	07/29/2022	ND					
Surrogate: 1-Chlorooctane	89.1	% 43-149	,						
Surrogate: 1-Chlorooctadecane	90.3	% 42.5-16	1						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	07/27/2022	Sampling Date:	07/27/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL / M SEC 14 T18S - R32E		

Sample ID: FL 3 (H223320-03)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2022	ND	1.74	86.8	2.00	7.97	
Toluene*	<0.050	0.050	07/29/2022	ND	1.94	97.2	2.00	7.78	
Ethylbenzene*	<0.050	0.050	07/29/2022	ND	1.84	92.2	2.00	8.94	
Total Xylenes*	<0.150	0.150	07/29/2022	ND	5.67	94.6	6.00	11.0	
Total BTEX	<0.300	0.300	07/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/29/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2022	ND	216	108	200	0.819	
DRO >C10-C28*	<10.0	10.0	07/29/2022	ND	200	100	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	07/29/2022	ND					
Surrogate: 1-Chlorooctane	97.4	% 43-149)						
Surrogate: 1-Chlorooctadecane	101	% 42.5-16	1						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/27/2022	Sampling Date:	07/27/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL / M SEC 14 T18S - R32E		

Sample ID: FL 4 (H223320-04)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2022	ND	1.74	86.8	2.00	7.97	
Toluene*	<0.050	0.050	07/29/2022	ND	1.94	97.2	2.00	7.78	
Ethylbenzene*	<0.050	0.050	07/29/2022	ND	1.84	92.2	2.00	8.94	
Total Xylenes*	<0.150	0.150	07/29/2022	ND	5.67	94.6	6.00	11.0	
Total BTEX	<0.300	0.300	07/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/29/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2022	ND	216	108	200	0.819	
DRO >C10-C28*	<10.0	10.0	07/29/2022	ND	200	100	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	07/29/2022	ND					
Surrogate: 1-Chlorooctane	103	% 43-149							
Surrogate: 1-Chlorooctadecane	108	% 42.5-16	1						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/27/2022	Sampling Date:	07/27/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL / M SEC 14 T18S - R32E		

Sample ID: FL 5 (H223320-05)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2022	ND	1.74	86.8	2.00	7.97	
Toluene*	<0.050	0.050	07/29/2022	ND	1.94	97.2	2.00	7.78	
Ethylbenzene*	<0.050	0.050	07/29/2022	ND	1.84	92.2	2.00	8.94	
Total Xylenes*	<0.150	0.150	07/29/2022	ND	5.67	94.6	6.00	11.0	
Total BTEX	<0.300	0.300	07/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/29/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/28/2022	ND	212	106	200	0.788	
DRO >C10-C28*	<10.0	10.0	07/28/2022	ND	203	102	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	07/28/2022	ND					
Surrogate: 1-Chlorooctane	83.6	% 43-149	,						
Surrogate: 1-Chlorooctadecane	88.6	% 42.5-16	1						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/27/2022	Sampling Date:	07/27/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL / M SEC 14 T18S - R32E		

Sample ID: FL 6 (H223320-06)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2022	ND	1.74	86.8	2.00	7.97	
Toluene*	<0.050	0.050	07/29/2022	ND	1.94	97.2	2.00	7.78	
Ethylbenzene*	<0.050	0.050	07/29/2022	ND	1.84	92.2	2.00	8.94	
Total Xylenes*	<0.150	0.150	07/29/2022	ND	5.67	94.6	6.00	11.0	
Total BTEX	<0.300	0.300	07/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/29/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/28/2022	ND	212	106	200	0.788	
DRO >C10-C28*	<10.0	10.0	07/28/2022	ND	203	102	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	07/28/2022	ND					
Surrogate: 1-Chlorooctane	89.2	% 43-149)						
Surrogate: 1-Chlorooctadecane	94.5	% 42.5-16	1						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/27/2022	Sampling Date:	07/27/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL / M SEC 14 T18S - R32E		

Sample ID: FL 7 (H223320-07)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2022	ND	1.74	86.8	2.00	7.97	
Toluene*	<0.050	0.050	07/29/2022	ND	1.94	97.2	2.00	7.78	
Ethylbenzene*	<0.050	0.050	07/29/2022	ND	1.84	92.2	2.00	8.94	
Total Xylenes*	<0.150	0.150	07/29/2022	ND	5.67	94.6	6.00	11.0	
Total BTEX	<0.300	0.300	07/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/29/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/28/2022	ND	212	106	200	0.788	
DRO >C10-C28*	<10.0	10.0	07/28/2022	ND	203	102	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	07/28/2022	ND					
Surrogate: 1-Chlorooctane	95.7	% 43-149							
Surrogate: 1-Chlorooctadecane	104	% 42.5-16	1						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/27/2022	Sampling Date:	07/27/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL / M SEC 14 T18S - R32E		

Sample ID: FL 8 (H223320-08)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2022	ND	1.74	86.8	2.00	7.97	
Toluene*	<0.050	0.050	07/29/2022	ND	1.94	97.2	2.00	7.78	
Ethylbenzene*	<0.050	0.050	07/29/2022	ND	1.84	92.2	2.00	8.94	
Total Xylenes*	<0.150	0.150	07/29/2022	ND	5.67	94.6	6.00	11.0	
Total BTEX	<0.300	0.300	07/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/29/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/28/2022	ND	212	106	200	0.788	
DRO >C10-C28*	<10.0	10.0	07/28/2022	ND	203	102	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	07/28/2022	ND					
Surrogate: 1-Chlorooctane	83.8	% 43-149							
Surrogate: 1-Chlorooctadecane	91.0	% 42.5-16	1						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/27/2022	Sampling Date:	07/27/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL / M SEC 14 T18S - R32E		

Sample ID: FL 9 (H223320-09)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/29/2022	ND	1.74	86.8	2.00	7.97	
Toluene*	<0.050	0.050	07/29/2022	ND	1.94	97.2	2.00	7.78	
Ethylbenzene*	<0.050	0.050	07/29/2022	ND	1.84	92.2	2.00	8.94	
Total Xylenes*	<0.150	0.150	07/29/2022	ND	5.67	94.6	6.00	11.0	
Total BTEX	<0.300	0.300	07/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/29/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/28/2022	ND	212	106	200	0.788	
DRO >C10-C28*	<10.0	10.0	07/28/2022	ND	203	102	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	07/28/2022	ND					
Surrogate: 1-Chlorooctane	81.0	% 43-149	,						
Surrogate: 1-Chlorooctadecane	86.5	% 42.5-16	1						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/27/2022	Sampling Date:	07/27/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL / M SEC 14 T18S - R32E		

Sample ID: FL 10 (H223320-10)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2022	ND	1.99	99.6	2.00	9.21	QM-07
Toluene*	<0.050	0.050	07/30/2022	ND	2.09	105	2.00	10.1	
Ethylbenzene*	<0.050	0.050	07/30/2022	ND	2.15	108	2.00	10.1	
Total Xylenes*	<0.150	0.150	07/30/2022	ND	6.54	109	6.00	10.2	
Total BTEX	<0.300	0.300	07/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.7	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/29/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/28/2022	ND	212	106	200	0.788	
DRO >C10-C28*	<10.0	10.0	07/28/2022	ND	203	102	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	07/28/2022	ND					
Surrogate: 1-Chlorooctane	76.6	% 43-149	,						
Surrogate: 1-Chlorooctadecane	82.4	% 42.5-16	1						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/27/2022	Sampling Date:	07/27/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL / M SEC 14 T18S - R32E		

Sample ID: FL 11 (H223320-11)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2022	ND	1.99	99.6	2.00	9.21	
Toluene*	<0.050	0.050	07/30/2022	ND	2.09	105	2.00	10.1	
Ethylbenzene*	<0.050	0.050	07/30/2022	ND	2.15	108	2.00	10.1	
Total Xylenes*	<0.150	0.150	07/30/2022	ND	6.54	109	6.00	10.2	
Total BTEX	<0.300	0.300	07/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/29/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/28/2022	ND	212	106	200	0.788	
DRO >C10-C28*	<10.0	10.0	07/28/2022	ND	203	102	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	07/28/2022	ND					
Surrogate: 1-Chlorooctane	83.1	% 43-149	,						
Surrogate: 1-Chlorooctadecane	88.9	% 42.5-16	1						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/27/2022	Sampling Date:	07/27/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL / M SEC 14 T18S - R32E		

Sample ID: FL 12 (H223320-12)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2022	ND	1.99	99.6	2.00	9.21	
Toluene*	<0.050	0.050	07/30/2022	ND	2.09	105	2.00	10.1	
Ethylbenzene*	<0.050	0.050	07/30/2022	ND	2.15	108	2.00	10.1	
Total Xylenes*	<0.150	0.150	07/30/2022	ND	6.54	109	6.00	10.2	
Total BTEX	<0.300	0.300	07/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/29/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/28/2022	ND	212	106	200	0.788	
DRO >C10-C28*	<10.0	10.0	07/28/2022	ND	203	102	200	2.89	
EXT DRO >C28-C36	<10.0	10.0	07/28/2022	ND					
Surrogate: 1-Chlorooctane	81.8	% 43-149							
Surrogate: 1-Chlorooctadecane	87.3	% 42.5-16	1						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/27/2022	Sampling Date:	07/27/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL / M SEC 14 T18S - R32E		

Sample ID: FL 13 (H223320-13)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2022	ND	1.99	99.6	2.00	9.21	
Toluene*	<0.050	0.050	07/30/2022	ND	2.09	105	2.00	10.1	
Ethylbenzene*	<0.050	0.050	07/30/2022	ND	2.15	108	2.00	10.1	
Total Xylenes*	<0.150	0.150	07/30/2022	ND	6.54	109	6.00	10.2	
Total BTEX	<0.300	0.300	07/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/29/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2022	ND	221	110	200	2.05	
DRO >C10-C28*	<10.0	10.0	07/29/2022	ND	233	116	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	07/29/2022	ND					
Surrogate: 1-Chlorooctane	89.9	% 43-149							
Surrogate: 1-Chlorooctadecane	85.3	% 42.5-16	1						

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/27/2022	Sampling Date:	07/27/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL / M SEC 14 T18S - R32E		

Sample ID: FL 14 (H223320-14)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2022	ND	1.99	99.6	2.00	9.21	
Toluene*	<0.050	0.050	07/30/2022	ND	2.09	105	2.00	10.1	
Ethylbenzene*	<0.050	0.050	07/30/2022	ND	2.15	108	2.00	10.1	
Total Xylenes*	<0.150	0.150	07/30/2022	ND	6.54	109	6.00	10.2	
Total BTEX	<0.300	0.300	07/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/29/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2022	ND	221	110	200	2.05	
DRO >C10-C28*	10.6	10.0	07/29/2022	ND	233	116	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	07/29/2022	ND					
Surrogate: 1-Chlorooctane	93.5	% 43-149)						
Surrogate: 1-Chlorooctadecane	92.7	% 42.5-16	1						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/27/2022	Sampling Date:	07/27/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL / M SEC 14 T18S - R32E		

Sample ID: FL 15 (H223320-15)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2022	ND	1.99	99.6	2.00	9.21	
Toluene*	<0.050	0.050	07/30/2022	ND	2.09	105	2.00	10.1	
Ethylbenzene*	<0.050	0.050	07/30/2022	ND	2.15	108	2.00	10.1	
Total Xylenes*	<0.150	0.150	07/30/2022	ND	6.54	109	6.00	10.2	
Total BTEX	<0.300	0.300	07/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.0	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/29/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2022	ND	221	110	200	2.05	
DRO >C10-C28*	<10.0	10.0	07/29/2022	ND	233	116	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	07/29/2022	ND					
Surrogate: 1-Chlorooctane	87.4	% 43-149	1						
Surrogate: 1-Chlorooctadecane	83.9	% 42.5-16	1						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/27/2022	Sampling Date:	07/27/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL / M SEC 14 T18S - R32E		

Sample ID: FL 16 (H223320-16)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2022	ND	1.99	99.6	2.00	9.21	
Toluene*	<0.050	0.050	07/30/2022	ND	2.09	105	2.00	10.1	
Ethylbenzene*	<0.050	0.050	07/30/2022	ND	2.15	108	2.00	10.1	
Total Xylenes*	<0.150	0.150	07/30/2022	ND	6.54	109	6.00	10.2	
Total BTEX	<0.300	0.300	07/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/29/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2022	ND	221	110	200	2.05	
DRO >C10-C28*	<10.0	10.0	07/29/2022	ND	233	116	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	07/29/2022	ND					
Surrogate: 1-Chlorooctane	90.1	% 43-149	,						
Surrogate: 1-Chlorooctadecane	87.3	% 42.5-16	1						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/27/2022	Sampling Date:	07/27/2022
Reported:	08/01/2022	Sampling Type:	Soil
Project Name:	CAVINESS TO BULLDOG 8"	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL / M SEC 14 T18S - R32E		

Sample ID: FL 17 (H223320-17)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2022	ND	1.99	99.6	2.00	9.21	
Toluene*	<0.050	0.050	07/30/2022	ND	2.09	105	2.00	10.1	
Ethylbenzene*	<0.050	0.050	07/30/2022	ND	2.15	108	2.00	10.1	
Total Xylenes*	<0.150	0.150	07/30/2022	ND	6.54	109	6.00	10.2	
Total BTEX	<0.300	0.300	07/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/29/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/29/2022	ND	221	110	200	2.05	
DRO >C10-C28*	<10.0	10.0	07/29/2022	ND	233	116	200	1.04	
EXT DRO >C28-C36	<10.0	10.0	07/29/2022	ND					
Surrogate: 1-Chlorooctane	83.8	% 43-149							
Surrogate: 1-Chlorooctadecane	78.6	% 42.5-16	1						

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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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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Ω oratories

Company Name:	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Hungry Horse LLC	ratories Marland, Hobbs, NM 8 3-2326 FAX (575) 393- Horse LLC	IM 8824 393-247	o ò			2	1 70			-0031		AND	ANAL	-UF-CUSTOUT AND ANALYSIS REQUEST	Page 20 of 2
Company Name:	Hungry Horse LLC	LC					BILL	L 70				N	ANALYSIS		REQUEST	Pa
Project Manager:	Daniel Dominguez	ez				P.O. #:				_	-					
Address: PO Bo	PO Box 1058					Compa	iny Front	Company Frontier Field Services,	vices, LLC							_
City: Hobbs		State: NM		Zip: 88241	:41	Attn:	Amber Groves	roves			_			_		
Phone #: 575 39	393-3386	Fax #:				Addres	S: 47 C	Address: 47 Conoco Rd						-		_
Project #:		Project Owner:		Frontier Field Services, LLC	Services, LL	City:	Maljamar							_		
Project Name: Ca	Caviness to Bulldog 8"	8"						Zip: 88264		_	_					
Project Location:	UL/ M Sec 14 T18S - R32E	8S - R32E				Phone #:	#: 575-7	575-703-7992								
Sampler Name:	Bradley Wells					Fax #:	ł									
FOR LAB USE ONLY				-	MATRIX	PRE	PRESERV	SAMPI ING	ล	_						
				RS TER												
Lab I.D.	Sample I.D.	I.D.		CONTAINER	STEWATE	ER : D/BASE:	ER :			oride	1 EX 8021			_		
I FL1	-			- # G	< s	0 A	0		LINE	+	+		+	t		
Z FL2	2			C 1	×			707702		× ;	× ×		+	+		
3 FL3	ω			C 1	×			7127122		+	+		+	+		
4 FL4	.4			C 1	×			7/27/22		-	-		-	+		
S FL5	5			C 1	×		X 7	7127122		-	-		-	+		
6 FL6	6		0	C 1	×		X 7	7127122		×	X X		-			
	7			C 1	×		X 7	7127122		×	X X		-			
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PLEASE NOTE: Liability and Damages analyses. All claims including those for	C 1 K X 7/27/22 C 1 K X 7/27/22 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C 1 C	ent's exclusive reme cause whatsoever s	dy for any claim	C 1 marising whether bas	X ased in contract or	A I I I I I I I I I I I I I I I I I I I	X 7	7/27/22 nount paid by the client for the	lient for the	×	X X	_	-	-		
service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, bus affiliates of successors arising out of or related to the performance of services hereunder by Cardinal, regardless of	ardinal be liable for incidental or cons g out of or related to the performanc	e of services hereun	including without der by Cardinal,	t limitation, busines, regardless of whet	ess interruptions, loss of use, or loss of profits incurred by client, its subsidiarios hether such claim is based upon any of the above stated reasons or otherwise.	s of use, or loss o based upon any o	of profits incurr of the above st	ed by client, its s ated reasons or	t, its subsidiaries, ts or otherwise.	-						
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Relinquished By:	Jun	Ctalin	0		(DHA)	Ulla	All	X	REMARKS:							
reconception by.		Date: Time:		Received By			(Email res	sults to:		ungry-h s@dura	pm@hungry-horse.com agroves@durangomidstream.com	m Istream	com	
Delivered Bv: (C Sampler - UPS - B	(Circle One) (). Bus - Other:	4= 0	-0.6	2 0.0	Sample Condition Cool Intact	p	CHECKED BY: (Initials)	BY:			g		aigonio	ou cam.		
† Cardinal cannot a	Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476	nges. Pleas	e fax writ	tten change	es to 575-39	o 1 393-2476										
						NOT THE										

Page 85 of 93

CHAIN

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Released to Imag	ing: 8/17/2022	11:25:0	4 AM		

Received	by	OCD :	8/16/2022	12:31:4	44 PM
	_	_			-

Address: PO B Address: PO B City: Hobbs Phone #: 575 3 Project Name: C Project Location: Sampler Name: FOR LAB USE ONLY H172 3320	In Hungry Horse L Daniel Doming Iox 1058 Ig3-3386 Ig3-3386 Ig3-3386 Igadley Wells Igadley Wells Igadley Wells	Project Owner: 8" 18S - R32E	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER	SLUDGE K	ACID/BASE: PRESE NA ACID/B		TIME Chloride	трн	BTEX 8021	ANALYSIS	S REQUEST	ST	
11	FL11		10	X	× 10	+	+	× т	×B	+			
	FL12		C 1	×	×	7/27/22	×	×	× >				
- 0	FL13		C 1	×	×	7127122	×	×	×	-			
14			C 1	×	×	7/27/22	×	×	×		-		
16 1	FI 16		-	×		7/27/22	×	×	×				
1	FI 17		+	×	×	7127122	×	×	×				
				×	×	7/27/22	×	×	×				
PLEASE NOTE: Liability and Damy analyses. All claims including those service. In no event shall Cardinal b atfliates or successors arising out of affliates or successors arising out of	ges. Cardinal's liability and cli for negligence and any other e liable for incidental or conse or related to the performance	inf's exclusive remady for any claim cause whatsoever shall be deeme quental damages, including withou of services hereunder by Cardinal	ent'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 cruuse whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the quential damages, including without inclution, business interruptions, loss of use, or loss of profits incorred by client, its subsidiaries of services hereunder by Cardinal, regardless of whother such claim is based upon any of the advances there are to the advance of the other to the advance of the other to the advance of the other to the other	ased in contract or tort, shall b de in writing and received by C distingtions, loss of use, or s interruptions, loss of use, or ther such claim is based unon	all be limited to the armony of loss of profits incurrence on the above of the abov	ount paid by the clien ays after completion red by client, its subs	t for the of the applicable diaries,		F	-			
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	(Circle One) 0,4 Bus - Other:	-0.2	し、CC Samp	Sample Condition Cool Intact Yes Yes	CHECKED BY: (Initials)	BY:)			agioves@	agroves@durangomidstream.com	eam.com		
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Attachment VII NMOCD Form Initial C-141

Received by OCD: 8/16/2022 12:81:44 PM

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

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Incident ID	nAPP2213839032
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 agroves@durangomidstream.com	Incident # (assigned by OCD)	

Location of Release Source

Latitude	32.743141 (NAL	Longitude -103.743819 83 in decimal degrees to 5 decimal places)	
Site Name Ca	viness to Bulldog 8" Steel	Site Type Pipeline	
Date Release	Discovered 5/17/2022	API# (if applicable)	

Unit Letter	Section	Township	Range	County
М	14	18S	32E	Eddy

Surface Owner: State Federal Tribal Private (Name:

Nature and Volume of Release

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
11	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls) 16.64	Volume Recovered (bbls) 0
🛛 Natural Gas	Volume Released (Mcf) 25.65	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

	22 12:31:44 BM te of New Mexico	Incident ID	nAPP2213839032
ge 2	Oil Conservation Division	District RP	1 2 m m s
		Facility ID	
		Application ID	
Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible part	ty consider this a major release	?
	Initial Respons party must undertake the following actions immediately unless they		ld result in injury
The source of the rele			
The impacted area ha	s been secured to protect human health and the enviro	onment.	
Released materials ha	we been contained via the use of berms or dikes, abso	orbent pads, or other containme	nt devices.
All free liquids and re	coverable materials have been removed and managed	d appropriately.	
If all the actions described	above have not been undertaken, explain why:		
has begun, please attach a	AC the responsible party may commence remediation a narrative of actions to date. If remedial efforts have t area (see $19.15.29.11(A)(5)(a)$ NMAC), please attac	ve been successfully completed	l or if the release occurred

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: <u>Remediation Specialist</u>
Signature:	Date: <u>5/17/2022</u>
email:agroves@durangomidstream.com	Telephone: _(575)703-7992
OCD Only	
Received by: Jocelyn Harimon	Date: 05/18/2022



	Gas Release Vo	lume Calculat	tor
Date:			5/17/2022
Site or Line Name:		MAL - Cavi	ness to Bulldog 8" Steel Line
Area of hole in pipe:	0.25		square inches
Absolute Pressure:	34.29	psia -	absolute pressure (psia = psig gauge pressure + 14.7)
Duration of Release:	60.00	minutes	
Temperature:	84.07	Degrees F	
Absolute Pressure:	34.29		psia (Gauge Pressure + 14.7)
Representative Gas Analysis	I Martin and	Please attach o	or email a representative gas analysis
Constants			
Temperature at standard conditions:	60	Deg. F	
Pressure at standard conditions:	14.7	PSIA	
Volume of Gas - SCF	25.65	MSCF	

Notes	
Entered by user	
 Calculated Value	
Constant	

Release Vol Calc Workbook-FINAL_3-8-22 (002).xlsx



Liquid Release Volume Calculator									
Date:	5/17/2022								
Site or Line Name: Soil Type	MAL - Caviness to Bulldog 8" Steel Line								
	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	150	15	0.166	373.5	16.64	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	0	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

Operator:	OGRID:
FRONTIER FIELD SERVICES, LLC	221115
10077 Grogans Mill Rd.	Action Number:
The Woodlands, TX 77380	108164
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
jharimon	None	5/18/2022

CONDITIONS

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Action 108164

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

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

CONDITIONS

Operator:	OGRID:
FRONTIER FIELD SERVICES, LLC	221115
10077 Grogans Mill Rd.	Action Number:
The Woodlands, TX 77380	134648
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
jnobui	Closure Report Approved.	8/17/2022

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CONDITIONS

Action 134648