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Final Closure Report

Grizzly Operating, LLC
CS Caylor #3 Flowline Leak #2
Lea County, New Mexico
Unit Letter "H", Section 1, Township 17 South, Range 36 East
Latitude 32.867105 North, Longitude 103.300916 West
NMOCD Incident # NRM2032857772

Prepared For:

Grizzly Operating, LLC
4001 Penbrook, Suite 201
Odessa, TX 79762

Prepared By:

Hungry Horse, LLC
4024 Plains Hwy
Lovington, NM 88260

December 2020

Lindsey Nevels
Project Manager

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Sr. Project Manager

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HUNGRY HORSE, LLC

The following *Final Closure Report* serves as a condensed update on field activities undertaken at the afore referenced Site.

Background:

The site is located in Unit Letter H (SE/NE), Section 1, Township 17 South, Range 36 East, approximately 5.9 miles southwest of Lovington, in Lea County, New Mexico. The property is owned by the city of Lovington. 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 in the pasture area; latitude 32.867105 North, Longitude 103.300916 West. The Initial NMOCD Form C-141 indicated that on November 9, 2020, approximately 12 bbls of produced water were released when a truck backed over a poly line causing it to burst. A berm was quickly built around the release containing the fluid. A vacuum truck was dispatched to the site immediately and approximately 12 bbls were recovered. Previously submitted pages of the NMOCD Form C-141 are available on the NMOCD Imaging System. NMOCD Form C-141 Remediation and Closure pages are included as Attachment V.

The release area measures approximately 200 sq. ft.

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 designated Karst area. Depth to groundwater information is provided as Attachment II and the results are depicted on Figures 1 & 2.

Utilizing this information, the NMOCD Closure Criteria for the Site were determined as follows:

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

Delineation Activities:

On November 9, 2020, Hungry Horse, LLC conducted an initial site assessment. During the site assessment a series of test trenches were advanced within the release area in an effort to determine the vertical extent of soil impacts. In addition, test trenches were advanced at the inferred edges of the affected area in an effort to determine the horizontal extent of soil impacts. During the advancement of the test trenches, soil samples were collected and field screened for the presence of Volatile Organic Compounds utilizing a Photoionization Detector (PID). Chloride concentrations were determined via titration by use of a La Motte chloride kit.

A total of twelve (12) delineation soil samples, SP1, SP2, and HZ1 through HZ4, were submitted to the laboratory for analysis of BTEX, TPH, and Chloride. Two (2) soil samples from each test trench (highest observed contaminated and deepest depth investigated) were submitted for laboratory analysis. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples with the exception of SP1 @ Surf, SP2 @ Surf, HZ1 @ Surf, HZ2 @ Surf, HZ3 @ Surf and HZ4 @ Surf, which exhibited TPH concentrations of 3,560mg/kg, 181 mg/kg, 2,570 mg/kg, 1,060 mg/kg, 17,200 mg/kg, and 4,590 mg/kg, respectively. Chloride concentrations were below the NMOCD Closure Criteria in each of the submitted samples with the exception of the surface samples at sample locations SP1, SP2, and HZ1, HZ2, HZ3, and HZ4, which exhibited chloride concentrations of 8,090 mg/kg, 4,090 mg/kg, 6,160 mg/kg, 6,020mg/kg, 6,280 mg/kg, and 4,250 mg/kg, respectively.

On November 21, 2020, four (4) horizontal delineation samples, HZ1-B @ Surf through HZ4-B @ Surf were also collected in order to fully delineate the site. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples.

Remediation Activities:

On November 11, 2020, remediation activities commenced on location. In accordance with NMOCD guidelines, impacted soil was excavated until field observations and laboratory analytical data suggested BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria. Excavated soil was transported to an NMOCD approved disposal facility.

On November 13, 2020, after removal of impacted soil, composite confirmation soil samples were collected, representing every 200 sq. ft. Composite closure samples BH1, BH2 and SW1 through SW4, were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples.

A Delineation Sample Map and an Excavation Sample Map are provided as Figure 4 and Figure 5, and Field Data is provided as Attachment III. A Summary of Soil Sample Field and Laboratory Analytical Results is provided as Table 1 and Laboratory Analytical Reports are provided as Attachment IV.

The excavation area measured approximately 14 ft. in length, 14 ft. in width, and two feet in depth. During remediation activities approximately 15 cubic yards of impacted soil were hauled to an NMOCD approved disposal facility.

Restoration, Reclamation, and Re-Vegetation:

The area was then backfilled with clean, non-impacted, like material and brought back to at, or near, original relative positions. The affected area was contoured to achieve erosion control and preserve surface water flow. The affected area has been reseeded with an approved seed mixture that is free of noxious weeds. Seed Tag is provided in Attachment III.

Closure Request:

Remediation activities were conducted in accordance with applicable NMOCD Regulations. The impacted soil was excavated and transported to an NMOCD approved disposal facility. Laboratory analytical results from composite confirmation soil samples indicate concentrations of BTEX, TPH, and chloride are below the NMOCD Closure Criteria.

Based on laboratory analytical results and field activities conducted to date, Hungry Horse recommends Grizzly Operating, LLC provide copies of this *Final Closure Report* to the appropriate agencies and request closure be granted to the CS Caylor #3 Flowline Leak 2.

Limitations:

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

Distribution:

Grizzly Operating, LLC
4001 Penbrook, Suite 201
Odessa, TX 79762

New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 1
1625 N. French Drive
Hobbs, NM 88240

Figures

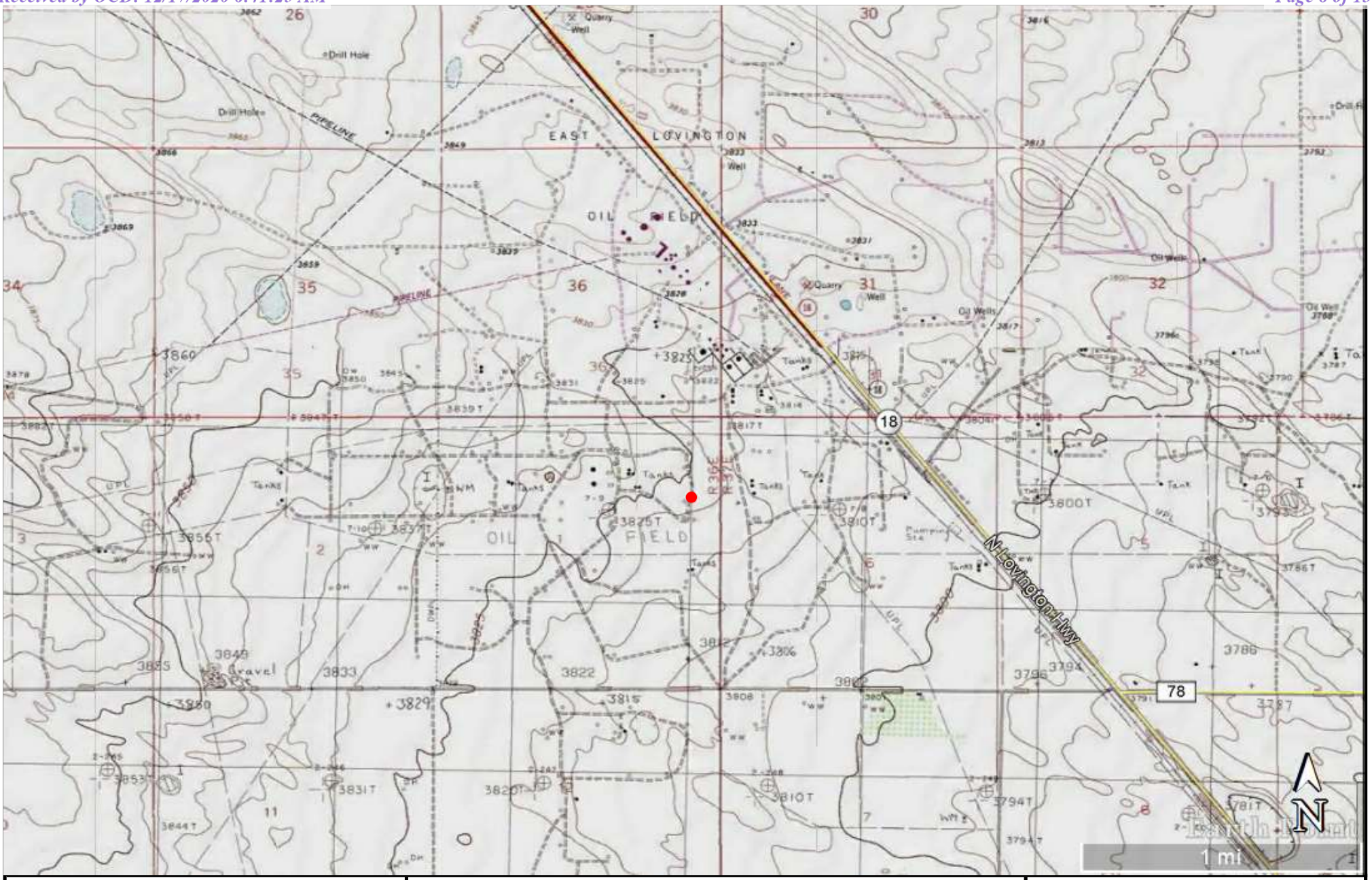

Figure 1
Topographic Map
Grizzly Energy
CS Caylor #3 Flowline Leak 2
GPS: 32.867105, -103.300916
Lea County

Legend:

- CS Caylor #3 Flowline Leak 2 Location

Drafted: lmn
Checked: dd
Date: 11/10/20

Hungry-Horse, LLC
Oil & Gas Services

Figure 2
OSE POD Locations Map
Grizzly Energy
CS Caylor #3 Flowline Leak 2
GPS: 32.867105, -103.300916
Lea County

Legend:
- CS Caylor #3 Flowline Leak 2 Location
- Active OSE Water Well
- Pending OSE Water Well

Drafted: lmn
Checked: dd
Date: 11/10/20

Hungry-Horse, LLC
Oil & Gas Services

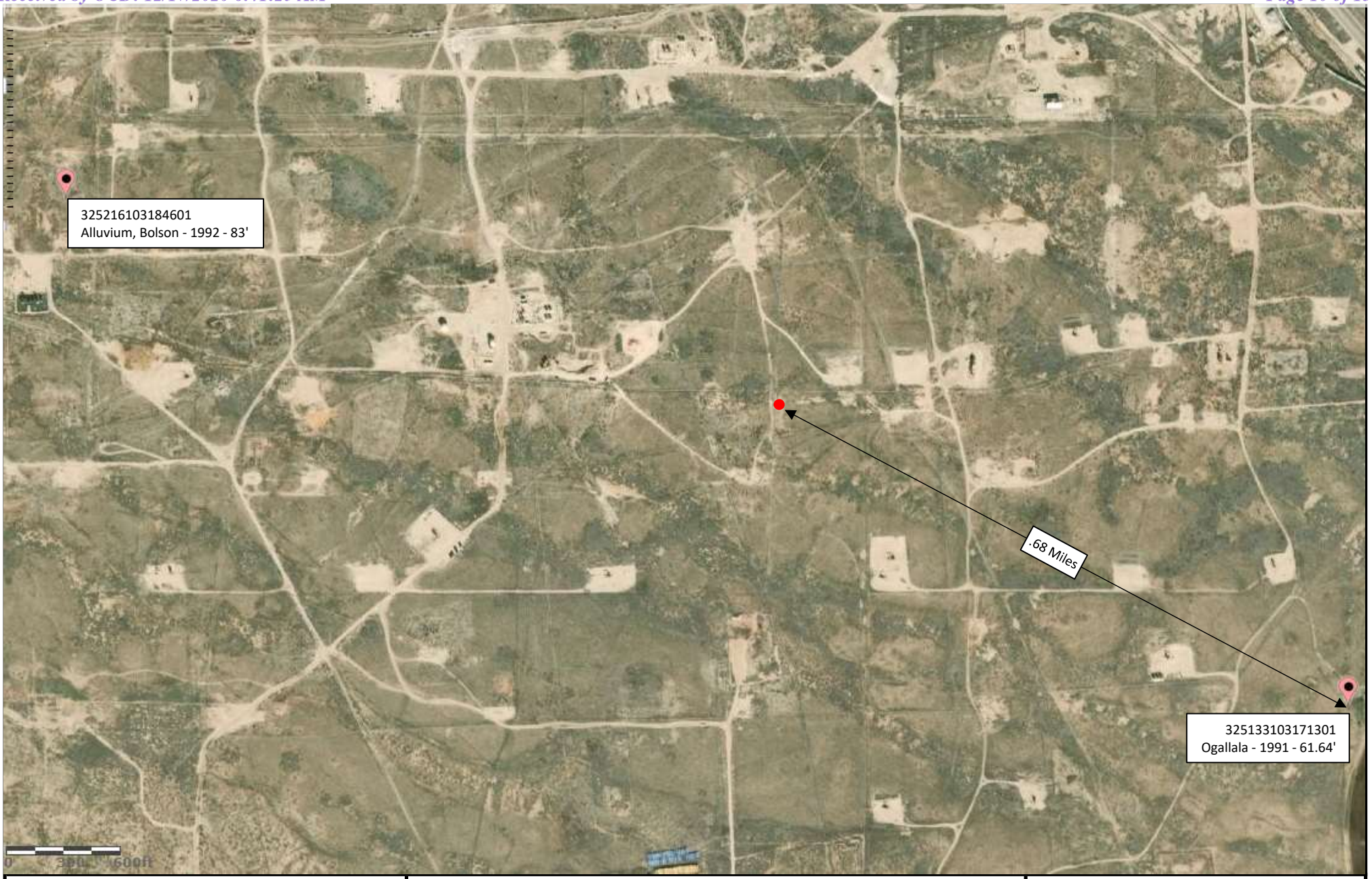

Figure 3
USGS Well Locations Map
Grizzly Energy
CS Caylor #3 Flowline Leak 2
GPS: 32.867105, -103.300916
Lea County

Legend:
- CS Caylor #3 Flowline Leak 2 Location
- USGS Well Location

Drafted: lmn
Checked: dd
Date: 11/10/20

Hungry-Horse, LLC
Oil & Gas Services

Figure 4

Delineation Sample Map

Grizzly Energy

CS Caylor #3 Flowline Leak 2

GPS: 32.867105, -103.300916

Lea County

Legend:

Release Area

SP1 Sample Location

Drafted: lmn

Checked: dd

Date: 11/11/20

Hungry-Horse, LLC
Oil & Gas Services

Figure 5
Excavation Sample Map
Grizzly Energy
CS Caylor #3 Flowline Leak 2
GPS: 32.867105, -103.300916
Lea County

Legend:
Excavated Area
BH1 Composite Sample Location

Drafted: dd
Checked: lmn
Date: 11/13/20

Hungry-Horse, LLC
Oil & Gas Services

Tables

TABLE 1
Summary of Soil Sample Field and Laboratory Analytical Results
Grizzly Energy
CS Caylor #3 Flowline Leak 2
NMOCD Ref. #: NRM2032857772

Sample ID	Date	Depth (ft)	Soil Status	Field Chloride	Benzene (mg/kg)	BTEX (mg/kg)	GRO C_6-C_{10} (mg/kg)	DRO C_{10}-C_{28} (mg/kg)	GRO + DRO C_6-C_{28} (mg/kg)	ORO C_{28}-C_{36} (mg/kg)	TPH C_6-C_{36} (mg/kg)	Chloride (mg/kg)
SP1	11/10/20	Surf	Excavated	–	7.90	32.2	501	2,670	**3,171**	385	**3,560**	**8,090**
	11/10/20	4	In-Situ	320	0.00269	0.00751	<49.8	<49.8	<49.8	<49.8	<49.8	62.4
SP2	11/10/20	Surf	Excavated	–	0.223	1.38	<49.9	181	**181**	<49.9	**181**	**4,090**
	11/10/20	4	In-Situ	200	<0.00199	0.0249	<50.0	<50.0	<50.0	<50.0	<50.0	39.9
HZ1	11/10/20	Surf	Excavated	480	2.44	8.09	140	2,430	**2,570**	232	**2,800**	**6,160**
	11/10/20	1	In-Situ	300	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	57.8
HZ2	11/10/20	Surf	Excavated	360	3.71	15.5	194	756	**950**	106	**1,060**	**6,020**
	11/10/20	1	In-Situ	290	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	53.3
HZ3	11/10/20	Surf	Excavated	400	1.57	18.6	1,700	14,300	**16,000**	1,230	**17,200**	**6,280**
	11/10/20	1	In-Situ	160	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	12.9
HZ4	11/10/20	Surf	Excavated	384	6.85	36.2	527	3,770	**4,297**	294	**4,590**	**4,250**
	11/10/20	1	In-Situ	190	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	48.3
BH1	11/13/20	2	In-Situ	160	<0.00200	<0.002000	51	<50.0	51	<50.0	51	<4.99
BH2	11/13/20	2	In-Situ	180	0.00301	0.03770	<49.9	<49.9	<49.9	<49.9	<49.9	<5.00
SW1	11/13/20	2	In-Situ	<140	<0.00201	<0.002010	<50.0	<50.0	<50.0	<50.0	<50.0	<4.99
SW2	11/13/20	2	In-Situ	<140	<0.00200	<0.002000	62	<49.9	62	<49.9	62	<4.99
SW3	11/13/20	2	In-Situ	160	<0.00199	<0.001990	51.6	<49.9	51.6	<49.9	51.6	<4.99
SW4	11/13/20	2	In-Situ	<140	<0.00200	<0.002000	52.9	<50.0	52.9	<50.0	52.9	<4.98
HZ1-B	11/24/20	Surf	In-Situ	160	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	9.28
HZ2-B	11/24/20	Surf	In-Situ	180	<0.00199	0.006120	<50.0	<50.0	<50.0	<50.0	<50.0	9.42
HZ3-B	11/24/20	Surf	In-Situ	204	<0.00199	0.005750	<49.9	<49.9	<49.9	<49.9	<49.9	8.31
HZ4-B	11/24/20	Surf	In-Situ	180	<0.00202	0.006840	<49.8	<49.9	<49.8	<49.9	<49.8	8.75
NMOCD Closure Criteria					**10**	**50**	-	-	**1,000**	-	**2,500**	**10,000**

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

Attachment I
Site Photographs

Photographs

Photo: 1 **Direction:** North **Description:** Release Area	

Photo: 2 **Direction:** Northeast **Description:** Release Area	

Photographs

Photo: 3 **Direction:** North **Description:** Excavaton Activities	

Photo: 4 **Direction:** North **Description:** Excavation Activities	

Photographs

Photo: 5 **Direction:** South **Description:** Excavation Activities	
Photo: 6 **Direction:** North **Description:** Backfill Complete	

Photographs

Photo: 7 **Direction:** Northeast **Description:** Backfill Complete	

Photo: 8 **Direction:** Northwest **Description:** Backfill Complete	

Attachment II
Depth to Groundwater Information

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

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(in feet)

POD Number	POD Code	Sub-basin	County	Source	q 6416	q 4	q 2	Sec	Tws	Rng	X	Y	Distance	Start Date	Finish Date	Log File Date	Depth Well	Depth Water	Driller	License Number
L 12562 POD11		L	LE	Shallow	2	4	2	01	17S	36E	658989	3637831	33	05/20/2010	05/20/2010	06/08/2010	112	97	BRYAN NYDOSKE	1210
L 02508		L	LE	Shallow	2	2	2	01	17S	36E	659013	3638194*	366	11/17/1954	11/20/1954	11/26/1954	120	40	TATUM, CLAUDE E.	33
L 10633	R	L	LE	Shallow			4	13	17S	36E	659026	3637389*	448	04/17/2001	04/19/2001	07/16/2001	209	80	KEN MARSH	586
L 14207 POD1		L	LE	Shallow	3	3	2	01	17S	36E	658500	3637679	480	10/07/2016	10/12/2016	12/12/2016	240	100	WHITE, JOHN W	1456
L 04988		L	LE	Shallow		1	2	01	17S	36E	658510	3638089*	514	01/02/1963	01/03/1963	01/10/1963	195	55	MURRELL ABBOTT	46
L 12562 POD4		L	LE	Shallow	4	4	2	36	16S	36E	658584	3638296	594	05/24/2010	05/24/2010	06/08/2010	121	106	BRYAN NYDOSKE	1210
L 02561		L	LE	Shallow	3	3	3	31	16S	37E	659210	3638403*	625	03/02/1954	03/03/1954	03/30/1954	137	50		46
L 10633 S	R	L	LE	Shallow			4	13	17S	36E	659026	3637189*	646	04/20/2001	04/25/2001	07/16/2001	228	120	KEN MARSH	586
L 02474		L	LE	Shallow		1	3	06	17S	37E	659331	3637296*	654	01/13/1954	01/14/1954	03/02/1954	100	40		33
L 01371		L	LE	Shallow	4	3	4	36	16S	36E	658603	3638389*	659	02/22/1952	02/23/1952	02/25/1952	115	45	ABBOTT, CLYDE	46
L 14207 POD2		L	LE	Shallow	2	4	1	01	17S	36E	658222	3637712	743	10/05/2016	10/12/2016	12/12/2016	230	101	WHITE, JOHN W	1456
L 01220 POD1		L	LE	Shallow		3	3	31	16S	37E	659311	3638504*	760	09/17/1951	09/18/1951	09/28/1951	120	55	ABBOTT BROTHERS	
L 01438		L	LE	Shallow		3	4	36	16S	36E	658504	3638490*	798	05/05/1952	05/06/1952	05/20/1952	110	45		46
L 13332 POD1		L	LE	Shallow	1	3	3	36	16S	37E	659161	3638638	832	06/18/2013	06/21/2013	08/05/2013	106	102	SHANE CURRIE	1575
L 10633 POD5		L	LE	Shallow	2	4	4	01	17S	36E	659032	3636987	848	04/20/2001	04/25/2001	07/16/2001	228	120	KEN MARSH	586
L 10633 S2	R	L	LE	Shallow			4	13	17S	36E	659032	3636987*	848	04/26/2001	04/30/2001	07/16/2001	196	80	KEN MARSH	586

***UTM location was derived from PLSS - see Help**

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(in feet)

POD Number	POD Sub-basin Code	County	Source	q 6416	q 4	q 4	Sec	Tws	Rng	X	Y	Distance	Start Date	Finish Date	Log File Date	Depth Well	Depth Water	Driller	License Number
L 10633 S4	L	LE	Shallow	2	4	4	01	17S	36E	659032	3636987	848	06/24/2004	07/05/2004	07/12/2004	204	110		1498
L 10633 POD4	L	LE	Shallow	1	4	4	01	17S	36E	658832	3636987	853	04/17/2001	04/19/2001	07/16/2001	209	80	KEN MARSH	586

Record Count: 18

UTMNAD83 Radius Search (in meters):

Easting (X): 658955.62 **Northing (Y):** 3637831.92 **Radius:** 880

New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	L 02508	2	2	2	01	17S	36E	659013	3638194*

Driller License:	33	**Driller Company:**	TATUM CLAUDE E.		
Driller Name:	TATUM, CLAUDE E.				
Drill Start Date:	11/17/1954	**Drill Finish Date:**	11/20/1954	**Plug Date:**	
Log File Date:	11/26/1954	**PCW Rcv Date:**	08/15/1955	**Source:**	Shallow
Pump Type:	TURBIN	**Pipe Discharge Size:**		**Estimated Yield:**	115 GPM
Casing Size:	7.00	**Depth Well:**	120 feet	**Depth Water:**	40 feet

Water Bearing Stratifications:	Top	Bottom	Description
	40	120	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	60	120

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	L 04988	1	2		01	17S	36E	658510	3638089*

Driller License:	46	**Driller Company:**	ABBOTT BROTHERS COMPANY		
Driller Name:	MURRELL ABBOTT				
Drill Start Date:	01/02/1963	**Drill Finish Date:**	01/03/1963	**Plug Date:**	
Log File Date:	01/10/1963	**PCW Rcv Date:**	08/14/1963	**Source:**	Shallow
Pump Type:	TURBIN	**Pipe Discharge Size:**	5	**Estimated Yield:**	185 GPM
Casing Size:	9.63	**Depth Well:**	195 feet	**Depth Water:**	55 feet

Water Bearing Stratifications:	Top	Bottom	Description
	55	170	Other/Unknown

Casing Perforations:	Top	Bottom
	55	190

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Water Right Summary

get image list

WR File Number: L 05456 **Subbasin:** L **Cross Reference:** -

Primary Purpose: MUN MUNICIPAL - CITY OR COUNTY SUPPLIED WATER

Primary Status: WDP

Total Acres: **Subfile:** - **Header:** -

Total Diversion: 0 **Cause/Case:** -

Owner: CITY OF LOVINGTON

Contact: MERLE KINDEL

Documents on File

	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/ To	Acres	Diversion	Consumptive
get images	501534	APPRO	1965-05-14	WDP	WDR	L 05456	T	0	0	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q 64	Q16	Q4	Sec	Tws	Rng	X	Y	Other Location Desc
L 05456				2	2	01	17S	36E	658914	3638095*	

*An (*) after northing value indicates UTM location was derived from PLSS - see Help

Priority Summary

Priority	Status	Acres	Diversion	Pod Number
08/14/1964	WTD	0	0	L 05456

Place of Use

Q 256	Q 64	Q16	Q4	Sec	Tws	Rng	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
		2	2	01	17S	36E	0	0		MUN	08/14/1964	WDP	WITHIN THE CORPORATE LIMITS OF THE CITY OF LOVINGTON

Source

Acres	Diversion	CU	Use	Priority	Source	Description
0	0		MUN	08/14/1964	GW	

New Mexico Office of the State Engineer
Water Right Summary

get image list

WR File Number: L 12562 **Subbasin:** L **Cross Reference:** -

Primary Purpose: MON MONITORING WELL

Primary Status: PMT PERMIT

Total Acres: **Subfile:** - **Header:** -

Total Diversion: 0 **Cause/Case:** -

Owner: NAVAJO REFINING COMPANY

Contact: STEVE TERRY

Owner: LEA REFINERY

Contact: STEVE TERRY

Documents on File

	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/ To	Acres	Diversion	Consumptive
get images	485041	EXPL	2010-05-19	PMT	LOG	PODS 1-15	T	0	0	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q 64	Q16	Q4	Sec	Tws	Rng	X	Y	Other Location Desc
L 12562 POD1		Shallow	2	2	4	36	16S	36E	658908	3639001	WW 18
L 12562 POD10		Shallow	2	2	4	36	16S	36E	659032	3638913	MW 19
L 12562 POD11		Shallow	2	4	2	01	17S	36E	658989	3637831	MW 20
L 12562 POD12		Shallow	3	1	3	31	16S	37E	659166	3638783	MW 21
L 12562 POD13		Shallow	2	4	2	36	16S	36E	658956	3639405	MW 28
L 12562 POD14		Shallow		2	2	36	16S	36E	658677	3639136	MW 17
L 12562 POD15		Shallow	4	1	2	36	16S	36E	658634	3639529	MW 15
L 12562 POD2		Shallow	2	2	3	36	16S	36E	659065	3638963	MW 23
L 12562 POD3		Shallow	3	1	3	31	16S	37E	659316	3638878	MW 22
L 12562 POD4		Shallow	4	4	2	36	16S	36E	658584	3638296	MW 16
L 12562 POD5		Shallow	3	3	1	31	16S	37E	659252	3639117	MW 24
L 12562 POD6		Shallow	4	4	2	36	16S	36E	659001	3639212	WW 26
L 12562 POD7		Shallow	4	4	2	36	16S	36E	658912	3639266	MW 27
L 12562 POD8		Shallow	2	2	4	36	16S	36E	658992	3639097	MW 25
L 12562 POD9		Shallow	1	4	4	25	17S	36E	658980	3630480	MW 29

Source

Acres	Diversion	CU	Use	Priority	Source	Description
0	0		MON		GW	

New Mexico Office of the State Engineer
Water Right Summary

get image list

WR File Number: L 12881 **Subbasin:** L **Cross Reference:** -

Primary Purpose: EXP EXPLORATION

Primary Status: PMT PERMIT

Total Acres: **Subfile:** - **Header:** -

Total Diversion: 0 **Cause/Case:** -

Owner: MATT HUDSON, PM CHEVRON ENVRNMNTL MNGMNT CO.

Contact: JOHN SCHNABLE, PM CONESTOGA-ROLVERS & ASSOC.,INC

Documents on File

	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/ To	Acres	Diversion	Consumptive
get images	488123	EXPL	2011-10-27	PMT	LOG	L 12881 PODS1-4	T	0	0	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q 64	Q16	Q4	Sec	Tws	Rng	X	Y	Other Location Desc
L 12881 POD1		Shallow	2	3	2	01	17S	36E	658291	3648926	
L 12881 POD2			4	1	2	01	17S	36E	658503	3637981	
L 12881 POD3			4	1	2	01	17S	36E	658612	3638016	
L 12881 POD4			4	1	2	01	17S	36E	658640	3637921	

New Mexico Office of the State Engineer
Water Right Summary

get image list

WR File Number: L 14207 **Subbasin:** L **Cross Reference:** -

Primary Purpose: MON MONITORING WELL

Primary Status: PMT PERMIT

Total Acres: **Subfile:** - **Header:** -

Total Diversion: 0 **Cause/Case:** -

Owner: CHEVRON MIDCONTINENT LP

Contact: SCOTT FOORD

Documents on File

	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/ To	Acres	Diversion	Consumptive
get images	629010	EXPL	2018-07-20	PMT	APR	L 14207 POD5-7	T	0	0	
get images	629009	EXPL	2018-07-19	PMT	PRC	L 14207 POD8	T	0	0	
get images	628990	EXPL	2018-07-19	PMT	PRC	L 14207 POD4	T	0	0	
get images	593141	EXPL	2016-09-30	PMT	LOG	L-14207 POD1-3	T	0	0	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q 64	Q16	Q4	Sec	Tws	Rng	X	Y	Other Location Desc
L 14207 POD1		Shallow	3	3	2	01	17S	36E	658500	3637679	MW-1 LPU-59
L 14207 POD2		Shallow	2	4	1	01	17S	36E	658222	3637712	LPU-60
L 14207 POD3		Shallow	2	3	3	31	16S	37E	606117	3636977	LPU-96
L 14207 POD4	NA		4	4	1	01	17S	36E	658239	3637687	MW-2 (LPU-60)
L 14207 POD5	NA			2	2	01	17S	36E	658596	3638048	MW-14 (WATER PLANT)
L 14207 POD6	NA			1	2	01	17S	36E	658624	3637936	MW-15 (WATER PLANT)
L 14207 POD7	NA			2	2	01	17S	36E	658438	3638022	MW-16 (WATER PLANT)
L 14207 POD8	NA		4	3	2	01	17S	36E	658527	3637655	

New Mexico Office of the State Engineer
Water Right Summary

get image list

WR File Number: L 14263 **Subbasin:** L **Cross Reference:** -

Primary Purpose: MON MONITORING WELL

Primary Status: PMT PERMIT

Total Acres: **Subfile:** - **Header:** -

Total Diversion: 0 **Cause/Case:** -

Owner: CHEVRON MIDCONTINENT LP

Contact: SCOTT FOORD

Documents on File

	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/ To	Acres	Diversion	Consumptive
get images	606341	EXPL	2017-04-25	PMT	LOG	L 14263 POD6-7	T	0	0	
get images	606083	EXPL	2017-04-25	PMT	LOG	L 14263 POD1-5	T	0	0	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q 64	Q16	Q4	Sec	Tws	Rng	X	Y	Other Location Desc
L 14263 POD1		Shallow	4	4	4	01	17S	36E	658944	3636867	MW-9
L 14263 POD2		Shallow	4	4	4	01	17S	36E	658944	3636867	MW-10
L 14263 POD3		Shallow	4	4	4	01	17S	36E	658914	3638715	MW-11
L 14263 POD4		Shallow	4	4	4	01	17S	36E	658944	3636867	RW-1
L 14263 POD5			3	2	2	01	17S	36E	658720	3637922	MW-13
L 14263 POD6		Shallow	4	4	4	01	17S	36E	658944	3636867	MW-C-R
L 14263 POD7		Shallow	3	4	4	01	17S	36E	658785	3636874	MW-O-R

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- Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 325133103171301

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 325133103171301 17S.37E.06.411331

Lea County, New Mexico
Latitude 32°51'45", Longitude 103°17'25" NAD27
Land-surface elevation 3,806.00 feet above NGVD29
The depth of the well is 100 feet below land surface.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1961-02-02		D	38.46			2		U		
1966-02-25		D	39.36			2		U		
1971-02-09		D	52.04			2		U		
1976-02-25		D	54.17			2		U		
1981-01-07		D	57.89			2		U		
1986-01-29		D	59.73			2		U		
1991-01-31		D	61.64			2		U		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

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Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 325141103185001

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 325141103185001 17S.36E.02.244233

Lea County, New Mexico
Latitude 32°51'55", Longitude 103°19'01" NAD27
Land-surface elevation 3,832.00 feet above NGVD29
The depth of the well is 150 feet below land surface.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1961-03-29		D	43.75			2		U		
1966-02-21		D	45.84			2		U		
1971-02-10		D	49.63			2		U		
1976-02-25		D	52.10			2		U		
1981-01-13		D	58.13			2		U		
1986-01-14		D	62.96			2		U		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

Questions about sites/data?
Feedback on this web site

Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

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U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2020-08-04 16:53:03 EDT
0.3 0.27 nadww01

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- Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 325216103184601

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 325216103184601 17S.36E.01.1120

Lea County, New Mexico
Latitude 32°52'13", Longitude 103°18'46" NAD27
Land-surface elevation 3,836 feet above NGVD29
The depth of the well is 232 feet below land surface.
The depth of the hole is 232 feet below land surface.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1992-05-01		D	83			0		U		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	0	Water level accuracy to nearest foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

Attachment III
Field Data and Seed Tag

Hungry Horse, LLC Caylor leak#2

Initial Site Assessment

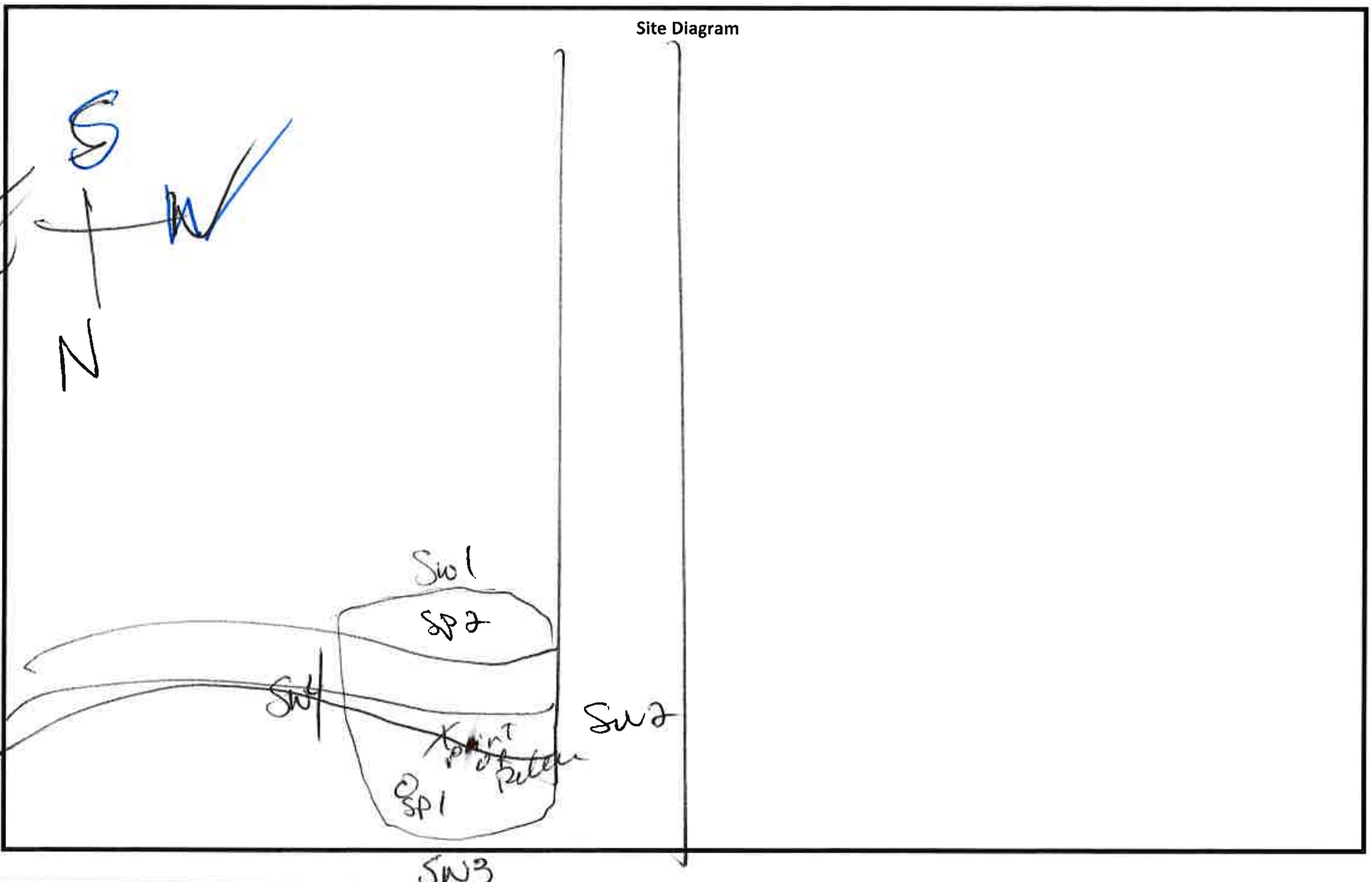
Date: 11.10.20

Project: Caylor line leak

Clean Up Level: TPH 2500mg/kg, Chloride 10000mg/kg

Latitude: ____________ Longitude: ____________

Site Diagram



Notes:

Truck tried to turn back into location ran over flowline

operator bermed up area Contained Spill to a 14' x 4' area

~Length: ~Width: ~Area: ~Depth:

	Yes	No
3-4 Representative Pictures of the Affected Area including sample locations?	☒	☐
Necessary Samples Field Screened and on Ice?	☒	☐
Sample and Field Screen Data Entered on Sample Log?	☒	☐
Was horizontal and vertical delineation achieved?	☒	☐

Hungry Horse, LLC

Sample Log

Date: 11-10-2020

Project: CS Caylor #3 Flowline

Latitude: 32.867105 Longitude: -103.300916 Sampler:

Sample ID	PID/Odor	Chloride Conc.	GPS
Sp1 - Surf		lab - no field test	
Sp1 - 1'		1300	
2'		590	
3'		370	
4'		320 lab -	
Sp 2 - Surf		lab - no field test	
1'		820	
2'		400	
3'		260	
4'		200 lab	
HZ1 - Surf		490 LAB	
1'		300 LAB	
Hz 2 - Surf		360 lab	
1'		290 lab	
HZ 3 - Surf		400 Lab	
1'		160 Lab	
HZ4 - Surf		384 Lab	
1'		190 lab	

Sample Point = SP1 @ ## etc
Floor = FL1 etc
Sidewall = SW1 etc

Horizontal = HZ1 etc
Refusal = SP1 @ 4'-R
GPS Sample Points, Center of Comp Areas

Test Trench = TT1 @ ##
Resamples= SP1b @ 5' or SW #1b
Stockpile = Stockpile #1

Hungry Horse, LLC

Soil Profile

Date: 11-10-20

Project: CS Caylor #3 Flowline

Latitude: 32.867105 Longitude: -103.300916

Depth (ft. bgs)	Description
1	Top Soil
	~~[illegible]~~ Rock
2	Imperulos
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
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16	
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26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	
40	

CS Taylor 11/13/20

	Chloride	PID
BH1	160	.02
BH2	180	.01
SW1	<140	.02
SW2	<140	.00
SW3	160	.1
SW4	<140	.0

CS Taylor - Leak #2 11/24/20

	chloride	PID
HZ1-B Surf	160	.2
HZ2-B-Surf	180	.0
HZ3-B SURF	204	.0
HZ4-B-SURF	180	.01

Bamert Seed Company Inc.

1897 CR 1018 Muleshoe, TX 79347 **(800) 262-9892** **Permit # TX00905**

BLM Seed Mixture 3 Bagged 25# **Lot/Sales # SO-68392**

Grizzly/ CS Caylor Flowline #3 Leak 2

Description	Pure Seed	Germ	Dormant	Hard Seed	Origin
Bristlegrass Plains, (Setaria vulpiseta)	11.45%	78.00%	14.00%	0.00%	TX
Grama, Sideoats "Haskell" (Bouteloua curtipendula)	53.73%	95.00%	3.00%	0.00%	TX
Green Sprangletop, "Van Horn" (Leptochloa dubia)	21.27%	98.00%	1.00%	0.00%	TX

Purity: 86.45% Inert Matter: 13.40% Other Crop Seed: 0.14% Weed Seed: 0.05%

Noxious Weeds: None Test Date: 10/2019 Primero McCettan Fed #I Net Wt 25 lbs

Attachment IV
Laboratory Analytical Reports

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Certificate of Analysis Summary 677647

Hungry Horse LLC, Hobbs, NM

Project Name: CS Caylor #3 Flowline Leak 2

Project Id:

Contact: Daniel Dominquez

Project Location:

Date Received in Lab: Thu 11.12.2020 11:05

Report Date: 11.19.2020 09:53

Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	677647-001		677647-002		677647-003		677647-004		677647-005		677647-006	
	Field Id:	SP1		SP1		SP2		SP2		HZ1		HZ1	
	Depth:			4- ft				4- ft				1- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	11.10.2020 00:00		11.10.2020 00:00		11.10.2020 00:00		11.10.2020 00:00		11.10.2020 00:00		11.10.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	11.15.2020 10:00		11.15.2020 14:00		11.15.2020 10:00		11.15.2020 10:00		11.15.2020 10:00		11.15.2020 10:00	
	Analyzed:	11.16.2020 00:43		11.16.2020 11:26		11.16.2020 00:22		11.16.2020 00:02		11.16.2020 01:03		11.15.2020 19:35	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		7.90	0.200	0.00269	0.00201	0.223	0.0398	<0.00199	0.00199	2.44	0.0398	<0.00198	0.00198
Toluene		14.0	0.200	0.00482	0.00201	0.561	0.0398	0.00541	0.00199	3.42	0.0398	<0.00198	0.00198
Ethylbenzene		0.582	0.200	<0.00201	0.00201	0.0428	0.0398	<0.00199	0.00199	0.0859	0.0398	<0.00198	0.00198
m,p-Xylenes		6.63	0.399	<0.00402	0.00402	0.369	0.0797	0.0115	0.00398	1.39	0.0795	<0.00396	0.00396
o-Xylene		3.10	0.200	<0.00201	0.00201	0.183	0.0398	0.00801	0.00199	0.754	0.0398	<0.00198	0.00198
Total Xylenes		9.73	0.200	<0.00201	0.00201	0.552	0.0398	0.0195	0.00199	2.14	0.0398	<0.00198	0.00198
Total BTEX		32.2	0.200	0.00751	0.00201	1.38	0.0398	0.0249	0.00199	8.09	0.0398	<0.00198	0.00198
Chloride by EPA 300	***Extracted:***	11.16.2020 10:35		11.16.2020 10:35		11.16.2020 10:35		11.16.2020 10:35		11.16.2020 10:35		11.16.2020 10:35	
	Analyzed:	11.16.2020 11:18		11.16.2020 11:24		11.16.2020 11:29		11.16.2020 11:45		11.16.2020 11:50		11.16.2020 11:55	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		8090	50.2	62.4	4.98	4090	24.8	39.9	4.95	6160	50.4	57.8	5.00
TPH By SW8015 Mod	***Extracted:***	11.13.2020 17:00		11.13.2020 15:00		11.13.2020 17:00		11.13.2020 15:00		11.13.2020 17:00		11.13.2020 15:00	
	Analyzed:	11.14.2020 07:58		11.14.2020 02:46		11.14.2020 08:17		11.14.2020 03:06		11.14.2020 08:36		11.14.2020 03:25	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		501	250	<49.8	49.8	<49.9	49.9	<50.0	50.0	140	50.0	<50.0	50.0
Diesel Range Organics (DRO)		2670	250	<49.8	49.8	181	49.9	<50.0	50.0	2430	50.0	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		385	250	<49.8	49.8	<49.9	49.9	<50.0	50.0	232	50.0	<50.0	50.0
Total TPH		3560	250	<49.8	49.8	181	49.9	<50.0	50.0	2800	50.0	<50.0	50.0

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Certificate of Analysis Summary 677647

Hungry Horse LLC, Hobbs, NM

Project Name: CS Caylor #3 Flowline Leak 2

Project Id:

Contact: Daniel Dominquez

Project Location:

Date Received in Lab: Thu 11.12.2020 11:05

Report Date: 11.19.2020 09:53

Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	677647-007		677647-008		677647-009		677647-010		677647-011		677647-012	
	Field Id:	HZ2		HZ2		HZ3		HZ3		HZ4		HZ4	
	Depth:			1- ft				1- ft				1- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	11.10.2020 00:00		11.10.2020 00:00		11.10.2020 00:00		11.10.2020 00:00		11.10.2020 00:00		11.10.2020 00:00	
BTEX by EPA 8021B	***Extracted:***	11.15.2020 10:00		11.15.2020 10:00		11.16.2020 16:00		11.15.2020 10:00		11.15.2020 10:00		11.15.2020 10:00	
	Analyzed:	11.16.2020 01:23		11.15.2020 19:56		11.17.2020 00:37		11.15.2020 20:16		11.16.2020 01:44		11.15.2020 20:37	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		3.71	0.0400	<0.00198	0.00198	1.57	0.0992	<0.00198	0.00198	6.85	0.0402	<0.00199	0.00199
Toluene		4.12 D	0.100	<0.00198	0.00198	5.40	0.0992	<0.00198	0.00198	19.2 D	0.201	<0.00199	0.00199
Ethylbenzene		0.381	0.0400	<0.00198	0.00198	0.778	0.0992	<0.00198	0.00198	0.115	0.0402	<0.00199	0.00199
m,p-Xylenes		4.92	0.0800	<0.00397	0.00397	7.18	0.198	<0.00397	0.00397	6.85	0.0803	<0.00398	0.00398
o-Xylene		2.40	0.0400	<0.00198	0.00198	3.63	0.0992	<0.00198	0.00198	3.17	0.0402	<0.00199	0.00199
Total Xylenes		7.32	0.0400	<0.00198	0.00198	10.8	0.0992	<0.00198	0.00198	10.0	0.0402	<0.00199	0.00199
Total BTEX		15.5	0.0400	<0.00198	0.00198	18.6	0.0992	<0.00198	0.00198	36.2	0.0402	<0.00199	0.00199
Chloride by EPA 300	***Extracted:***	11.16.2020 10:35		11.16.2020 10:35		11.16.2020 10:35		11.16.2020 10:35		11.16.2020 10:35		11.16.2020 10:35	
	Analyzed:	11.16.2020 12:00		11.16.2020 12:06		11.16.2020 12:11		11.16.2020 12:27		11.16.2020 12:32		11.16.2020 12:48	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		6020	49.7	53.3	5.00	6280	50.0	12.9	4.95	4250	25.0	48.3	4.97
TPH By SW8015 Mod	***Extracted:***	11.13.2020 17:00		11.13.2020 15:00		11.13.2020 17:00		11.13.2020 15:00		11.13.2020 17:00		11.13.2020 15:00	
	Analyzed:	11.14.2020 08:55		11.14.2020 03:45		11.14.2020 09:14		11.14.2020 04:04		11.14.2020 09:33		11.14.2020 04:23	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		194	49.9	<49.9	49.9	1700	249	<49.9	49.9	527	50.0	<50.0	50.0
Diesel Range Organics (DRO)		756	49.9	<49.9	49.9	14300	249	<49.9	49.9	3770	50.0	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		106	49.9	<49.9	49.9	1230	249	<49.9	49.9	294	50.0	<50.0	50.0
Total TPH		1060	49.9	<49.9	49.9	17200	249	<49.9	49.9	4590	50.0	<50.0	50.0

BRL - Below Reporting Limit

Holly Taylor

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Analytical Report 677647

for

Hungry Horse LLC

Project Manager: Daniel Dominquez

CS Caylor #3 Flowline Leak 2

11.19.2020

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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11.19.2020

Project Manager: **Daniel Dominquez**
Hungry Horse LLC
P. O. Box 1058
Hobbs, NM 88241

Reference: Eurofins Xenco, LLC Report No(s): **677647**
CS Caylor #3 Flowline Leak 2
Project Address:

Daniel Dominquez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 677647. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 677647 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Holly Taylor

Holly Taylor
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Sample Cross Reference 677647

Hungry Horse LLC, Hobbs, NM

CS Caylor #3 Flowline Leak 2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP1	S	11.10.2020 00:00		677647-001
SP1	S	11.10.2020 00:00	4 ft	677647-002
SP2	S	11.10.2020 00:00		677647-003
SP2	S	11.10.2020 00:00	4 ft	677647-004
HZ1	S	11.10.2020 00:00		677647-005
HZ1	S	11.10.2020 00:00	1 ft	677647-006
HZ2	S	11.10.2020 00:00		677647-007
HZ2	S	11.10.2020 00:00	1 ft	677647-008
HZ3	S	11.10.2020 00:00		677647-009
HZ3	S	11.10.2020 00:00	1 ft	677647-010
HZ4	S	11.10.2020 00:00		677647-011
HZ4	S	11.10.2020 00:00	1 ft	677647-012

CASE NARRATIVE

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Client Name: Hungry Horse LLC

Project Name: CS Caylor #3 Flowline Leak 2

Project ID:
Work Order Number(s): *677647*

Report Date: *11.19.2020*
Date Received: *11.12.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3142333 BTEX by EPA 8021B
Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected.
Samples affected are: 677647-004,677647-011,677647-007.

Batch: LBA-3142442 BTEX by EPA 8021B
Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected.
Samples affected are: 677647-009.

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Certificate of Analytical Results 677647

Hungry Horse LLC, Hobbs, NM

CS Caylor #3 Flowline Leak 2

Sample Id: **SP1** Matrix: Soil Date Received:11.12.2020 11:05

Lab Sample Id: 677647-001 Date Collected: 11.10.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.16.2020 10:35 % Moisture:

Seq Number: 3142432 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8090**	50.2	mg/kg	11.16.2020 11:18		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.13.2020 17:00 % Moisture:

Seq Number: 3142359 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**501**	250	mg/kg	11.14.2020 07:58		5
Diesel Range Organics (DRO)	C10C28DRO	**2670**	250	mg/kg	11.14.2020 07:58		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**385**	250	mg/kg	11.14.2020 07:58		5
Total TPH	PHC635	**3560**	250	mg/kg	11.14.2020 07:58		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-130	11.14.2020 07:58	
o-Terphenyl	84-15-1	99	%	70-130	11.14.2020 07:58	

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Certificate of Analytical Results 677647

Hungry Horse LLC, Hobbs, NM

CS Caylor #3 Flowline Leak 2

Sample Id:	**SP1**	Matrix:	Soil	Date Received:	11.12.2020 11:05
Lab Sample Id:	677647-001	Date Collected:	11.10.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.15.2020 10:00	% Moisture:	
Seq Number:	3142333			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**7.90**	0.200	mg/kg	11.16.2020 00:43		100
Toluene	108-88-3	**14.0**	0.200	mg/kg	11.16.2020 00:43		100
Ethylbenzene	100-41-4	**0.582**	0.200	mg/kg	11.16.2020 00:43		100
m,p-Xylenes	179601-23-1	**6.63**	0.399	mg/kg	11.16.2020 00:43		100
o-Xylene	95-47-6	**3.10**	0.200	mg/kg	11.16.2020 00:43		100
Total Xylenes	1330-20-7	**9.73**	0.200	mg/kg	11.16.2020 00:43		100
Total BTEX		**32.2**	0.200	mg/kg	11.16.2020 00:43		100

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	115	%	70-130	11.16.2020 00:43	
1,4-Difluorobenzene	540-36-3	98	%	70-130	11.16.2020 00:43	

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Hungry Horse LLC, Hobbs, NM

CS Caylor #3 Flowline Leak 2

Sample Id:	**SP1**	Matrix:	Soil	Date Received:	11.12.2020 11:05
Lab Sample Id:	677647-002	Date Collected:	11.10.2020 00:00	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	11.16.2020 10:35	% Moisture:	
Seq Number:	3142432			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**62.4**	4.98	mg/kg	11.16.2020 11:24		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	11.13.2020 15:00	% Moisture:	
Seq Number:	3142356			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.14.2020 02:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.14.2020 02:46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.14.2020 02:46	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	11.14.2020 02:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	71	%	70-130	11.14.2020 02:46	
o-Terphenyl	84-15-1	79	%	70-130	11.14.2020 02:46	

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Hungry Horse LLC, Hobbs, NM

CS Caylor #3 Flowline Leak 2

Sample Id:	**SP1**	Matrix:	Soil	Date Received:	11.12.2020 11:05
Lab Sample Id:	677647-002	Date Collected:	11.10.2020 00:00	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.15.2020 14:00	% Moisture:	
Seq Number:	3142351			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.00269**	0.00201	mg/kg	11.16.2020 11:26		1
Toluene	108-88-3	**0.00482**	0.00201	mg/kg	11.16.2020 11:26		1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	11.16.2020 11:26	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	11.16.2020 11:26	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	11.16.2020 11:26	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	11.16.2020 11:26	U	1
Total BTEX		**0.00751**	0.00201	mg/kg	11.16.2020 11:26		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	11.16.2020 11:26	
1,4-Difluorobenzene	540-36-3	102	%	70-130	11.16.2020 11:26	

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Hungry Horse LLC, Hobbs, NM

CS Caylor #3 Flowline Leak 2

Sample Id: **SP2** Matrix: Soil Date Received:11.12.2020 11:05

Lab Sample Id: 677647-003 Date Collected: 11.10.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.16.2020 10:35 % Moisture:

Seq Number: 3142432 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4090**	24.8	mg/kg	11.16.2020 11:29		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.13.2020 17:00 % Moisture:

Seq Number: 3142359 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.14.2020 08:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	**181**	49.9	mg/kg	11.14.2020 08:17		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.14.2020 08:17	U	1
Total TPH	PHC635	**181**	49.9	mg/kg	11.14.2020 08:17		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-130	11.14.2020 08:17	
o-Terphenyl	84-15-1	108	%	70-130	11.14.2020 08:17	

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Hungry Horse LLC, Hobbs, NM

CS Caylor #3 Flowline Leak 2

Sample Id:	**SP2**	Matrix:	Soil	Date Received:	11.12.2020 11:05
Lab Sample Id:	677647-003	Date Collected:	11.10.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.15.2020 10:00	% Moisture:	
Seq Number:	3142333			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.223**	0.0398	mg/kg	11.16.2020 00:22		20
Toluene	108-88-3	**0.561**	0.0398	mg/kg	11.16.2020 00:22		20
Ethylbenzene	100-41-4	**0.0428**	0.0398	mg/kg	11.16.2020 00:22		20
m,p-Xylenes	179601-23-1	**0.369**	0.0797	mg/kg	11.16.2020 00:22		20
o-Xylene	95-47-6	**0.183**	0.0398	mg/kg	11.16.2020 00:22		20
Total Xylenes	1330-20-7	**0.552**	0.0398	mg/kg	11.16.2020 00:22		20
Total BTEX		**1.38**	0.0398	mg/kg	11.16.2020 00:22		20

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	95	%	70-130	11.16.2020 00:22	
4-Bromofluorobenzene	460-00-4	113	%	70-130	11.16.2020 00:22	

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Hungry Horse LLC, Hobbs, NM

CS Caylor #3 Flowline Leak 2

Sample Id:	**SP2**	Matrix:	Soil	Date Received:	11.12.2020 11:05
Lab Sample Id:	677647-004	Date Collected:	11.10.2020 00:00	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	11.16.2020 10:35	% Moisture:	
Seq Number:	3142432			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**39.9**	4.95	mg/kg	11.16.2020 11:45		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	11.13.2020 15:00	% Moisture:	
Seq Number:	3142356			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.14.2020 03:06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.14.2020 03:06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.14.2020 03:06	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.14.2020 03:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	70	%	70-130	11.14.2020 03:06	
o-Terphenyl	84-15-1	102	%	70-130	11.14.2020 03:06	

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Hungry Horse LLC, Hobbs, NM

CS Caylor #3 Flowline Leak 2

Sample Id:	**SP2**	Matrix:	Soil	Date Received:	11.12.2020 11:05
Lab Sample Id:	677647-004	Date Collected:	11.10.2020 00:00	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.15.2020 10:00	% Moisture:	
Seq Number:	3142333			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.16.2020 00:02	U	1
Toluene	108-88-3	**0.00541**	0.00199	mg/kg	11.16.2020 00:02		1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.16.2020 00:02	U	1
m,p-Xylenes	179601-23-1	**0.0115**	0.00398	mg/kg	11.16.2020 00:02		1
o-Xylene	95-47-6	**0.00801**	0.00199	mg/kg	11.16.2020 00:02		1
Total Xylenes	1330-20-7	**0.0195**	0.00199	mg/kg	11.16.2020 00:02		1
Total BTEX		**0.0249**	0.00199	mg/kg	11.16.2020 00:02		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	87	%	70-130	11.16.2020 00:02	
4-Bromofluorobenzene	460-00-4	131	%	70-130	11.16.2020 00:02	**

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Hungry Horse LLC, Hobbs, NM

CS Caylor #3 Flowline Leak 2

Sample Id: **HZ1** Matrix: Soil Date Received:11.12.2020 11:05

Lab Sample Id: 677647-005 Date Collected: 11.10.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.16.2020 10:35 % Moisture:

Seq Number: 3142432 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6160**	50.4	mg/kg	11.16.2020 11:50		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.13.2020 17:00 % Moisture:

Seq Number: 3142359 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**140**	50.0	mg/kg	11.14.2020 08:36		1
Diesel Range Organics (DRO)	C10C28DRO	**2430**	50.0	mg/kg	11.14.2020 08:36		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**232**	50.0	mg/kg	11.14.2020 08:36		1
Total TPH	PHC635	**2800**	50.0	mg/kg	11.14.2020 08:36		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-130	11.14.2020 08:36	
o-Terphenyl	84-15-1	92	%	70-130	11.14.2020 08:36	

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Hungry Horse LLC, Hobbs, NM

CS Caylor #3 Flowline Leak 2

Sample Id:	**HZ1**	Matrix:	Soil	Date Received:	11.12.2020 11:05
Lab Sample Id:	677647-005	Date Collected:	11.10.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.15.2020 10:00	% Moisture:	
Seq Number:	3142333			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**2.44**	0.0398	mg/kg	11.16.2020 01:03		20
Toluene	108-88-3	**3.42**	0.0398	mg/kg	11.16.2020 01:03		20
Ethylbenzene	100-41-4	**0.0859**	0.0398	mg/kg	11.16.2020 01:03		20
m,p-Xylenes	179601-23-1	**1.39**	0.0795	mg/kg	11.16.2020 01:03		20
o-Xylene	95-47-6	**0.754**	0.0398	mg/kg	11.16.2020 01:03		20
Total Xylenes	1330-20-7	**2.14**	0.0398	mg/kg	11.16.2020 01:03		20
Total BTEX		**8.09**	0.0398	mg/kg	11.16.2020 01:03		20

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	70-130	11.16.2020 01:03	
1,4-Difluorobenzene	540-36-3	96	%	70-130	11.16.2020 01:03	

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Hungry Horse LLC, Hobbs, NM

CS Caylor #3 Flowline Leak 2

Sample Id:	**HZ1**	Matrix:	Soil	Date Received:	11.12.2020 11:05
Lab Sample Id:	677647-006	Date Collected:	11.10.2020 00:00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	11.16.2020 10:35	% Moisture:	
Seq Number:	3142432			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**57.8**	5.00	mg/kg	11.16.2020 11:55		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	11.13.2020 15:00	% Moisture:	
Seq Number:	3142356			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.14.2020 03:25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.14.2020 03:25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.14.2020 03:25	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.14.2020 03:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	71	%	70-130	11.14.2020 03:25	
o-Terphenyl	84-15-1	81	%	70-130	11.14.2020 03:25	

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Hungry Horse LLC, Hobbs, NM

CS Caylor #3 Flowline Leak 2

Sample Id:	**HZ1**	Matrix:	Soil	Date Received:	11.12.2020 11:05
Lab Sample Id:	677647-006	Date Collected:	11.10.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.15.2020 10:00	% Moisture:	
Seq Number:	3142333			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.15.2020 19:35	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.15.2020 19:35	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.15.2020 19:35	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	11.15.2020 19:35	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.15.2020 19:35	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	11.15.2020 19:35	U	1
Total BTEX		<0.00198	0.00198	mg/kg	11.15.2020 19:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	11.15.2020 19:35	
4-Bromofluorobenzene	460-00-4	108	%	70-130	11.15.2020 19:35	

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Certificate of Analytical Results 677647

Hungry Horse LLC, Hobbs, NM

CS Caylor #3 Flowline Leak 2

Sample Id: **HZ2** Matrix: Soil Date Received:11.12.2020 11:05

Lab Sample Id: 677647-007 Date Collected: 11.10.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.16.2020 10:35 % Moisture:

Seq Number: 3142432 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6020**	49.7	mg/kg	11.16.2020 12:00		10

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.13.2020 17:00 % Moisture:

Seq Number: 3142359 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**194**	49.9	mg/kg	11.14.2020 08:55		1
Diesel Range Organics (DRO)	C10C28DRO	**756**	49.9	mg/kg	11.14.2020 08:55		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**106**	49.9	mg/kg	11.14.2020 08:55		1
Total TPH	PHC635	**1060**	49.9	mg/kg	11.14.2020 08:55		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-130	11.14.2020 08:55	
o-Terphenyl	84-15-1	114	%	70-130	11.14.2020 08:55	

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Hungry Horse LLC, Hobbs, NM

CS Caylor #3 Flowline Leak 2

Sample Id:	**HZ2**	Matrix:	Soil	Date Received:	11.12.2020 11:05
Lab Sample Id:	677647-007	Date Collected:	11.10.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.15.2020 10:00	% Moisture:	
Seq Number:	3142333			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**3.71**	0.0400	mg/kg	11.16.2020 01:23		20
Toluene	108-88-3	**4.12**	0.100	mg/kg	11.16.2020 12:47	D	50
Ethylbenzene	100-41-4	**0.381**	0.0400	mg/kg	11.16.2020 01:23		20
m,p-Xylenes	179601-23-1	**4.92**	0.0800	mg/kg	11.16.2020 01:23		20
o-Xylene	95-47-6	**2.40**	0.0400	mg/kg	11.16.2020 01:23		20
Total Xylenes	1330-20-7	**7.32**	0.0400	mg/kg	11.16.2020 01:23		20
Total BTEX		**15.5**	0.0400	mg/kg	11.16.2020 12:47		50

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	120	%	70-130	11.16.2020 01:23	
4-Bromofluorobenzene	460-00-4	164	%	70-130	11.16.2020 01:23	**

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Hungry Horse LLC, Hobbs, NM

CS Caylor #3 Flowline Leak 2

Sample Id:	**HZ2**	Matrix:	Soil	Date Received:	11.12.2020 11:05
Lab Sample Id:	677647-008	Date Collected:	11.10.2020 00:00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	11.16.2020 10:35	% Moisture:	
Seq Number:	3142432			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**53.3**	5.00	mg/kg	11.16.2020 12:06		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	11.13.2020 15:00	% Moisture:	
Seq Number:	3142356			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.14.2020 03:45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.14.2020 03:45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.14.2020 03:45	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.14.2020 03:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	73	%	70-130	11.14.2020 03:45	
o-Terphenyl	84-15-1	83	%	70-130	11.14.2020 03:45	

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CS Caylor #3 Flowline Leak 2

Sample Id:	**HZ2**	Matrix:	Soil	Date Received:	11.12.2020 11:05
Lab Sample Id:	677647-008	Date Collected:	11.10.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.15.2020 10:00	% Moisture:	
Seq Number:	3142333			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.15.2020 19:56	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.15.2020 19:56	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.15.2020 19:56	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	11.15.2020 19:56	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.15.2020 19:56	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	11.15.2020 19:56	U	1
Total BTEX		<0.00198	0.00198	mg/kg	11.15.2020 19:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	70-130	11.15.2020 19:56	
1,4-Difluorobenzene	540-36-3	101	%	70-130	11.15.2020 19:56	

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CS Caylor #3 Flowline Leak 2

Sample Id:	**HZ3**	Matrix:	Soil	Date Received:	11.12.2020 11:05
Lab Sample Id:	677647-009	Date Collected:	11.10.2020 00:00		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	11.16.2020 10:35	% Moisture:	
Seq Number:	3142432			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6280**	50.0	mg/kg	11.16.2020 12:11		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	11.13.2020 17:00	% Moisture:	
Seq Number:	3142359			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**1700**	249	mg/kg	11.14.2020 09:14		5
Diesel Range Organics (DRO)	C10C28DRO	**14300**	249	mg/kg	11.14.2020 09:14		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**1230**	249	mg/kg	11.14.2020 09:14		5
Total TPH	PHC635	**17200**	249	mg/kg	11.14.2020 09:14		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-130	11.14.2020 09:14	
o-Terphenyl	84-15-1	111	%	70-130	11.14.2020 09:14	

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CS Caylor #3 Flowline Leak 2

Sample Id:	**HZ3**	Matrix:	Soil	Date Received:	11.12.2020 11:05
Lab Sample Id:	677647-009	Date Collected:	11.10.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.16.2020 16:00	% Moisture:	
Seq Number:	3142442			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**1.57**	0.0992	mg/kg	11.17.2020 00:37		50
Toluene	108-88-3	**5.40**	0.0992	mg/kg	11.17.2020 00:37		50
Ethylbenzene	100-41-4	**0.778**	0.0992	mg/kg	11.17.2020 00:37		50
m,p-Xylenes	179601-23-1	**7.18**	0.198	mg/kg	11.17.2020 00:37		50
o-Xylene	95-47-6	**3.63**	0.0992	mg/kg	11.17.2020 00:37		50
Total Xylenes	1330-20-7	**10.8**	0.0992	mg/kg	11.17.2020 00:37		50
Total BTEX		**18.6**	0.0992	mg/kg	11.17.2020 00:37		50

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	177	%	70-130	11.17.2020 00:37	**
1,4-Difluorobenzene	540-36-3	93	%	70-130	11.17.2020 00:37	

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CS Caylor #3 Flowline Leak 2

Sample Id:	**HZ3**	Matrix:	Soil	Date Received:	11.12.2020 11:05
Lab Sample Id:	677647-010	Date Collected:	11.10.2020 00:00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	11.16.2020 10:35	% Moisture:	
Seq Number:	3142432			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**12.9**	4.95	mg/kg	11.16.2020 12:27		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	11.13.2020 15:00	% Moisture:	
Seq Number:	3142356			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.14.2020 04:04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.14.2020 04:04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.14.2020 04:04	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.14.2020 04:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	73	%	70-130	11.14.2020 04:04	
o-Terphenyl	84-15-1	83	%	70-130	11.14.2020 04:04	

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CS Caylor #3 Flowline Leak 2

Sample Id:	**HZ3**	Matrix:	Soil	Date Received:	11.12.2020 11:05
Lab Sample Id:	677647-010	Date Collected:	11.10.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.15.2020 10:00	% Moisture:	
Seq Number:	3142333			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	11.15.2020 20:16	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	11.15.2020 20:16	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	11.15.2020 20:16	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	11.15.2020 20:16	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	11.15.2020 20:16	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	11.15.2020 20:16	U	1
Total BTEX		<0.00198	0.00198	mg/kg	11.15.2020 20:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	105	%	70-130	11.15.2020 20:16	
1,4-Difluorobenzene	540-36-3	100	%	70-130	11.15.2020 20:16	

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CS Caylor #3 Flowline Leak 2

Sample Id: **HZ4** Matrix: Soil Date Received:11.12.2020 11:05

Lab Sample Id: 677647-011 Date Collected: 11.10.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 11.16.2020 10:35 % Moisture:

Seq Number: 3142432 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4250**	25.0	mg/kg	11.16.2020 12:32		5

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.13.2020 17:00 % Moisture:

Seq Number: 3142359 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**527**	50.0	mg/kg	11.14.2020 09:33		1
Diesel Range Organics (DRO)	C10C28DRO	**3770**	50.0	mg/kg	11.14.2020 09:33		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**294**	50.0	mg/kg	11.14.2020 09:33		1
Total TPH	PHC635	**4590**	50.0	mg/kg	11.14.2020 09:33		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-130	11.14.2020 09:33	
o-Terphenyl	84-15-1	117	%	70-130	11.14.2020 09:33	

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Hungry Horse LLC, Hobbs, NM

CS Caylor #3 Flowline Leak 2

Sample Id:	**HZ4**	Matrix:	Soil	Date Received:	11.12.2020 11:05
Lab Sample Id:	677647-011	Date Collected:	11.10.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.15.2020 10:00	% Moisture:	
Seq Number:	3142333			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**6.85**	0.0402	mg/kg	11.16.2020 01:44		20
Toluene	108-88-3	**19.2**	0.201	mg/kg	11.16.2020 13:08	D	100
Ethylbenzene	100-41-4	**0.115**	0.0402	mg/kg	11.16.2020 01:44		20
m,p-Xylenes	179601-23-1	**6.85**	0.0803	mg/kg	11.16.2020 01:44		20
o-Xylene	95-47-6	**3.17**	0.0402	mg/kg	11.16.2020 01:44		20
Total Xylenes	1330-20-7	**10.0**	0.0402	mg/kg	11.16.2020 01:44		20
Total BTEX		**36.2**	0.0402	mg/kg	11.16.2020 13:08		100

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	198	%	70-130	11.16.2020 01:44	**
1,4-Difluorobenzene	540-36-3	122	%	70-130	11.16.2020 01:44	

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Hungry Horse LLC, Hobbs, NM

CS Caylor #3 Flowline Leak 2

Sample Id:	**HZ4**	Matrix:	Soil	Date Received:	11.12.2020 11:05
Lab Sample Id:	677647-012	Date Collected:	11.10.2020 00:00	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE				
Analyst:	CHE	Date Prep:	11.16.2020 10:35	% Moisture:	
Seq Number:	3142432			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**48.3**	4.97	mg/kg	11.16.2020 12:48		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	11.13.2020 15:00	% Moisture:	
Seq Number:	3142356			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.14.2020 04:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.14.2020 04:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.14.2020 04:23	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.14.2020 04:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	72	%	70-130	11.14.2020 04:23	
o-Terphenyl	84-15-1	99	%	70-130	11.14.2020 04:23	

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Hungry Horse LLC, Hobbs, NM

CS Caylor #3 Flowline Leak 2

Sample Id:	**HZ4**	Matrix:	Soil	Date Received:	11.12.2020 11:05
Lab Sample Id:	677647-012	Date Collected:	11.10.2020 00:00	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	11.15.2020 10:00	% Moisture:	
Seq Number:	3142333			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.15.2020 20:37	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.15.2020 20:37	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.15.2020 20:37	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.15.2020 20:37	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.15.2020 20:37	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	11.15.2020 20:37	U	1
Total BTEX		<0.00199	0.00199	mg/kg	11.15.2020 20:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	11.15.2020 20:37	
1,4-Difluorobenzene	540-36-3	102	%	70-130	11.15.2020 20:37	

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

QC Summary 677647

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CS Caylor #3 Flowline Leak 2

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3142432 — Matrix: Solid — Date Prep: 11.16.2020
MB Sample Id: 7715228-1-BLK — LCS Sample Id: 7715228-1-BKS — LCSD Sample Id: 7715228-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	262	105	260	104	90-110	1	20	mg/kg	11.16.2020 10:47	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3142432 — Matrix: Soil — Date Prep: 11.16.2020
Parent Sample Id: 677647-009 — MS Sample Id: 677647-009 S — MSD Sample Id: 677647-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	6280	2500	8570	92	8640	94	90-110	1	20	mg/kg	11.16.2020 12:16	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3142432 — Matrix: Soil — Date Prep: 11.16.2020
Parent Sample Id: 677657-023 — MS Sample Id: 677657-023 S — MSD Sample Id: 677657-023 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	108	2480	2660	103	2660	103	90-110	0	20	mg/kg	11.16.2020 11:03	

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3142356 — Matrix: Solid — Date Prep: 11.13.2020
MB Sample Id: 7715217-1-BLK — LCS Sample Id: 7715217-1-BKS — LCSD Sample Id: 7715217-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	952	95	949	95	70-130	0	20	mg/kg	11.13.2020 21:37	
Diesel Range Organics (DRO)	<50.0	1000	945	95	948	95	70-130	0	20	mg/kg	11.13.2020 21:37	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	83		106		101		70-130	%	11.13.2020 21:37
o-Terphenyl	101		101		104		70-130	%	11.13.2020 21:37

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3142359 — Matrix: Solid — Date Prep: 11.13.2020
MB Sample Id: 7715219-1-BLK — LCS Sample Id: 7715219-1-BKS — LCSD Sample Id: 7715219-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1030	103	979	98	70-130	5	20	mg/kg	11.14.2020 05:21	
Diesel Range Organics (DRO)	<50.0	1000	1010	101	975	98	70-130	4	20	mg/kg	11.14.2020 05:21	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	83		126		111		70-130	%	11.14.2020 05:21
o-Terphenyl	99		124		119		70-130	%	11.14.2020 05:21

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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QC Summary 677647

Hungry Horse LLC

CS Caylor #3 Flowline Leak 2

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3142356 Matrix: Solid Date Prep: 11.13.2020
MB Sample Id: 7715217-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	11.13.2020 21:18	

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3142359 Matrix: Solid Date Prep: 11.13.2020
MB Sample Id: 7715219-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	11.14.2020 05:02	

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3142356 Matrix: Soil Date Prep: 11.13.2020
Parent Sample Id: 677656-001 MS Sample Id: 677656-001 S MSD Sample Id: 677656-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	903	90	950	95	70-130	5	20	mg/kg	11.13.2020 22:35	
Diesel Range Organics (DRO)	301	998	1120	82	1140	84	70-130	2	20	mg/kg	11.13.2020 22:35	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	93		95		70-130	%	11.13.2020 22:35
o-Terphenyl	85		87		70-130	%	11.13.2020 22:35

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3142359 Matrix: Soil Date Prep: 11.13.2020
Parent Sample Id: 677657-021 MS Sample Id: 677657-021 S MSD Sample Id: 677657-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	883	88	846	85	70-130	4	20	mg/kg	11.14.2020 06:19	
Diesel Range Organics (DRO)	<49.9	998	865	87	835	84	70-130	4	20	mg/kg	11.14.2020 06:19	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	100		99		70-130	%	11.14.2020 06:19
o-Terphenyl	105		105		70-130	%	11.14.2020 06:19

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

QC Summary 677647

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Hungry Horse LLC

CS Caylor #3 Flowline Leak 2

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3142333 — Matrix: Solid — Date Prep: 11.15.2020
MB Sample Id: 7715235-1-BLK — LCS Sample Id: 7715235-1-BKS — LCSD Sample Id: 7715235-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0795	80	0.0745	75	70-130	6	35	mg/kg	11.15.2020 17:09	
Toluene	<0.00200	0.100	0.0873	87	0.0833	83	70-130	5	35	mg/kg	11.15.2020 17:09	
Ethylbenzene	<0.00200	0.100	0.0961	96	0.0922	92	70-130	4	35	mg/kg	11.15.2020 17:09	
m,p-Xylenes	<0.00400	0.200	0.188	94	0.182	91	70-130	3	35	mg/kg	11.15.2020 17:09	
o-Xylene	<0.00200	0.100	0.100	100	0.0932	93	70-130	7	35	mg/kg	11.15.2020 17:09	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		99		99		70-130	%	11.15.2020 17:09
4-Bromofluorobenzene	114		105		110		70-130	%	11.15.2020 17:09

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3142351 — Matrix: Solid — Date Prep: 11.15.2020
MB Sample Id: 7715268-1-BLK — LCS Sample Id: 7715268-1-BKS — LCSD Sample Id: 7715268-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0800	80	0.0754	75	70-130	6	35	mg/kg	11.16.2020 03:05	
Toluene	<0.00200	0.100	0.0879	88	0.0803	80	70-130	9	35	mg/kg	11.16.2020 03:05	
Ethylbenzene	<0.00200	0.100	0.0970	97	0.0885	89	70-130	9	35	mg/kg	11.16.2020 03:05	
m,p-Xylenes	<0.00400	0.200	0.189	95	0.171	86	70-130	10	35	mg/kg	11.16.2020 03:05	
o-Xylene	<0.00200	0.100	0.0957	96	0.0867	87	70-130	10	35	mg/kg	11.16.2020 03:05	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	94		99		99		70-130	%	11.16.2020 03:05
4-Bromofluorobenzene	122		105		100		70-130	%	11.16.2020 03:05

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3142442 — Matrix: Solid — Date Prep: 11.16.2020
MB Sample Id: 7715327-1-BLK — LCS Sample Id: 7715327-1-BKS — LCSD Sample Id: 7715327-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0813	81	0.0842	84	70-130	4	35	mg/kg	11.16.2020 16:06	
Toluene	<0.00200	0.100	0.0846	85	0.0887	89	70-130	5	35	mg/kg	11.16.2020 16:06	
Ethylbenzene	<0.00200	0.100	0.0930	93	0.0976	98	70-130	5	35	mg/kg	11.16.2020 16:06	
m,p-Xylenes	<0.00400	0.200	0.179	90	0.190	95	70-130	6	35	mg/kg	11.16.2020 16:06	
o-Xylene	<0.00200	0.100	0.0896	90	0.0950	95	70-130	6	35	mg/kg	11.16.2020 16:06	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	93		100		101		70-130	%	11.16.2020 16:06
4-Bromofluorobenzene	111		99		99		70-130	%	11.16.2020 16:06

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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QC Summary 677647

Hungry Horse LLC

CS Caylor #3 Flowline Leak 2

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3142333 — Matrix: Soil — Date Prep: 11.15.2020
Parent Sample Id: 677647-012 — MS Sample Id: 677647-012 S — MSD Sample Id: 677647-012 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0753	75	0.0793	79	70-130	5	35	mg/kg	11.15.2020 17:55	
Toluene	<0.00200	0.100	0.0814	81	0.0807	81	70-130	1	35	mg/kg	11.15.2020 17:55	
Ethylbenzene	<0.00200	0.100	0.0899	90	0.0868	87	70-130	4	35	mg/kg	11.15.2020 17:55	
m,p-Xylenes	<0.00400	0.200	0.177	89	0.166	83	70-130	6	35	mg/kg	11.15.2020 17:55	
o-Xylene	<0.00200	0.100	0.0886	89	0.0843	84	70-130	5	35	mg/kg	11.15.2020 17:55	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		100		70-130	%	11.15.2020 17:55
4-Bromofluorobenzene	106		100		70-130	%	11.15.2020 17:55

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3142351 — Matrix: Soil — Date Prep: 11.15.2020
Parent Sample Id: 677754-008 — MS Sample Id: 677754-008 S — MSD Sample Id: 677754-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0992	0.0547	55	0.0657	66	70-130	18	35	mg/kg	11.16.2020 03:46	X
Toluene	<0.00198	0.0992	0.0607	61	0.0718	72	70-130	17	35	mg/kg	11.16.2020 03:46	X
Ethylbenzene	<0.00198	0.0992	0.0681	69	0.0793	80	70-130	15	35	mg/kg	11.16.2020 03:46	X
m,p-Xylenes	<0.00397	0.198	0.133	67	0.157	79	70-130	17	35	mg/kg	11.16.2020 03:46	X
o-Xylene	<0.00198	0.0992	0.0678	68	0.0793	80	70-130	16	35	mg/kg	11.16.2020 03:46	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		99		70-130	%	11.16.2020 03:46
4-Bromofluorobenzene	111		110		70-130	%	11.16.2020 03:46

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5035A
Seq Number: 3142442 — Matrix: Soil — Date Prep: 11.16.2020
Parent Sample Id: 677690-001 — MS Sample Id: 677690-001 S — MSD Sample Id: 677690-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0376	38	0.0639	64	70-130	52	35	mg/kg	11.16.2020 16:47	XF
Toluene	<0.00200	0.100	0.0432	43	0.0684	69	70-130	45	35	mg/kg	11.16.2020 16:47	XF
Ethylbenzene	<0.00200	0.100	0.0555	56	0.0759	76	70-130	31	35	mg/kg	11.16.2020 16:47	X
m,p-Xylenes	<0.00400	0.200	0.103	52	0.148	74	70-130	36	35	mg/kg	11.16.2020 16:47	XF
o-Xylene	<0.00200	0.100	0.0534	53	0.0747	75	70-130	33	35	mg/kg	11.16.2020 16:47	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	94		99		70-130	%	11.16.2020 16:47
4-Bromofluorobenzene	92		104		70-130	%	11.16.2020 16:47

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

Work Order No: 677647

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Project Manager:	Lindsey Nevels	Bill to: (if different)	
Company Name:	Hungry - Horse	Company Name:	
Address:	po Box 1058	Address:	
City, State ZIP:	Hobbs NM 88241	City, State ZIP:	
Phone:		Email:	pm@hungry-horse.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	CS Taylor #3 flowline Leak 2	Turn Around	☒ Routine ☐ Rush
Project Number:		Due Date:	
Project Location		TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Anston Rich		
PO #:			

SAMPLE RECEIPT

Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Received Intact:	(Yes) No	Thermometer ID:	TR8
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	0.5
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	1.3
Total Containers:		Corrected Temperature:	1.8

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chlorides	BTEX	TPH	Sample Comments
Sp1		11/10/20		Surf				X	X	X	
Sp1				4				X	X	X	
Sp 2				Surf				X	X	X	
Sp 2				4				X	X	X	
Hz 1				Surf				X	X	X	
Hz 1				1'				X	X	X	
Hz 2				Surf				X	X	X	
Hz 2				1'				X	X	X	
Hz 3				Surf				X	X	X	
Hz 3				1'				X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Lindsey Nevels	Armida Bustillo	11/11/20	2 Armida Bustillo		11/12/20
3				4		1105
5				6		

Revised Date 05012020 Rev. 2020.1

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

Work Order No: 677647

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Project Manager:	Lindsey Nevels	Bill to: (if different)	
Company Name:	Hungry Horse	Company Name:	
Address:	P.O. Box 1058	Address:	
City, State ZIP:	Hobbs NM 88241	City, State ZIP:	
Phone:		Email:	pm@hungry-horse.com

Project Name:	Cs Taylor Flowline Leak 2	Turn Around	
Project Number:		☑ Routine ☐ Rush	
Project Location		Due Date:	
Sampler's Name:	Ashton Rich	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Received Intact:	(Yes) No	Thermometer ID:	IR8	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	0.5	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	1.3	
Total Containers:		Corrected Temperature:	1.8	

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chloride	Benzene	TPH
HZ4		11/10/20		Surf				6	6	6
HZ4		11/10/20		1'				6	6	6

Preservative Codes

None: NO — DI Water: H_2O
Cool: Cool — MeOH: Me
HCL: HC — HNO_3: HN
H_2SO_4: H_2 — NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time		Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		Armida Bustillo	3:06 11/11/20	2	Armida Bustillo		11/12/20 1105
3				4			
5				6			

Revised Date 05012020 Rev. 2020.1

ORIGIN ID:HOBA (575) 392-7550
*
MAIL SERVICES ETC
4008 N GRIMES

HOBBS, NM 88240
UNITED STATES US

SHIP DATE: 11NOV20
ACTWGT: 23.00 LB MAN
CAD: 0103352/CAFE3313
DIMS: 17x16x12 IN

BILL RECIPIENT

TO XENCO HOLD FOR PICKUP
FEDEX EXPRESS SHIP CENTER
FEDEX EXPRESS SHIP CENTER
3600 COUNTY ROAD 1276 SOUTH

MIDLAND TX 79711
(432) 704-5440 REF:
INV:
PO: DEPT:

565C3/51D8/05A2

FedEx
Express

E

J191219082001uv

THU - 12 NOV HOLD
PRIORITY OVERNIGHT
HLD

TRK# 0201 9061 5135 3189

41 MAFA

MAFA
TX-US LBB

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Hungry Horse LLC

Date/ Time Received: 11.12.2020 11.05.00 AM

Work Order #: 677647

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR8

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	1.8	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**	
#5 Custody Seals intact on sample bottles?	**N/A**	
#6*Custody Seals Signed and dated?	**N/A**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	BTEX was in bulk container
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**N/A**	
#18 Water VOC samples have zero headspace?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 11.12.2020
Brianna Teel

Checklist reviewed by: Holly Taylor Date: 11.15.2020
Holly Taylor

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Certificate of Analysis Summary 678077

Hungry Horse LLC, Hobbs, NM

Project Name: CS Caylor Leak #2

Project Id:

Contact: Daniel Dominquez

Project Location: Grizzly Energy

Date Received in Lab: Tue 11.17.2020 11:19

Report Date: 11.24.2020 14:17

Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	678077-001		678077-002		678077-003		678077-004		678077-005		678077-006	
	Field Id:	BH 1		BH 2		SW1		SW2		SW3		SW4	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	11.13.2020 06:30		11.13.2020 06:40		11.13.2020 06:45		11.13.2020 06:57		11.13.2020 07:05		11.13.2020 07:10	
BTEX by EPA 8021B	***Extracted:***	11.18.2020 15:00		11.19.2020 17:00		11.18.2020 15:00		11.18.2020 15:00		11.18.2020 15:00		11.18.2020 15:00	
	Analyzed:	11.19.2020 11:16		11.20.2020 11:23		11.19.2020 12:08		11.19.2020 12:34		11.19.2020 12:59		11.19.2020 13:25	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00200	0.00200	0.00301	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Toluene		<0.00200	0.00200	0.00251	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Ethylbenzene		<0.00200	0.00200	0.00636	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
m,p-Xylenes		<0.00399	0.00399	0.00982	0.00399	<0.00402	0.00402	<0.00399	0.00399	<0.00398	0.00398	<0.00399	0.00399
o-Xylene		<0.00200	0.00200	0.0160	0.00200	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Total Xylenes		<0.002000	0.002000	0.02582	0.002000	<0.002010	0.002010	<0.002000	0.002000	<0.001990	0.001990	<0.002000	0.002000
Total BTEX		<0.002000	0.002000	0.03770	0.002000	<0.002010	0.002010	<0.002000	0.002000	<0.001990	0.001990	<0.002000	0.002000
Chloride by EPA 300	***Extracted:***	11.17.2020 17:45		11.17.2020 17:45		11.17.2020 17:45		11.17.2020 17:45		11.17.2020 17:45		11.17.2020 17:45	
	Analyzed:	11.18.2020 08:25		11.18.2020 08:32		11.17.2020 20:56		11.17.2020 21:03		11.17.2020 21:10		11.17.2020 21:17	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		<4.99	4.99	<5.00	5.00	<4.99	4.99	<4.99	4.99	<4.99	4.99	<4.98	4.98
TPH By SW8015 Mod	***Extracted:***	11.18.2020 17:00		11.18.2020 17:00		11.18.2020 17:00		11.18.2020 17:00		11.18.2020 17:00		11.18.2020 17:00	
	Analyzed:	11.19.2020 05:10		11.19.2020 05:31		11.19.2020 05:51		11.19.2020 07:13		11.19.2020 06:32		11.19.2020 06:52	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		51.0	50.0	<49.9	49.9	<50.0	50.0	62.0	49.9	51.6	49.9	52.9	50.0
Diesel Range Organics (DRO)		<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<49.9	49.9	<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.0	50.0
Total TPH		51.00	50.00	<49.90	49.90	<50.00	50.00	62.00	49.90	51.60	49.90	52.90	50.00

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Holly Taylor

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Analytical Report 678077

for

Hungry Horse LLC

Project Manager: Daniel Dominquez

CS Caylor Leak #2

11.24.2020

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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11.24.2020

Project Manager: **Daniel Dominquez**
Hungry Horse LLC
P. O. Box 1058
Hobbs, NM 88241

Reference: Eurofins Xenco, LLC Report No(s): **678077**
CS Caylor Leak #2
Project Address: Grizzly Energy

Daniel Dominquez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 678077. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 678077 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Holly Taylor

Holly Taylor
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Sample Cross Reference 678077

Hungry Horse LLC, Hobbs, NM

CS Caylor Leak #2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH 1	S	11.13.2020 06:30		678077-001
BH 2	S	11.13.2020 06:40		678077-002
SW1	S	11.13.2020 06:45		678077-003
SW2	S	11.13.2020 06:57		678077-004
SW3	S	11.13.2020 07:05		678077-005
SW4	S	11.13.2020 07:10		678077-006

CASE NARRATIVE

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Client Name: Hungry Horse LLC

Project Name: CS Caylor Leak #2

Project ID:
Work Order Number(s): *678077*

Report Date: *11.24.2020*
Date Received: *11.17.2020*

Sample receipt non conformances and comments:

11/24/2020 1.001 Revised to correct TPH result on sample 004. HT

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3142578 Chloride by EPA 300

Lab Sample ID 678077-002 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 678077-001, -002, -003, -004, -005, -006.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3142724 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered below QC limits.

Samples affected are: 678077-006.

Batch: LBA-3142734 TPH By SW8015 Mod

Surrogate 1-Chlorooctane recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis.

Samples affected are: 678077-002,678077-006,678077-005,678077-003.

Batch: LBA-3142829 BTEX by EPA 8021B

Surrogate 1,4-Difluorobenzene recovered below QC limits. Matrix interferences is suspected;

Samples affected are: 678410-001 SD.

Surrogate 4-Bromofluorobenzene recovered above QC limits . Samples affected are: 7715600-1-BLK,678410-001 S,678410-001 SD.

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Certificate of Analytical Results 678077

Hungry Horse LLC, Hobbs, NM

CS Caylor Leak #2

Sample Id: **BH 1** Matrix: Soil Date Received:11.17.2020 11:19

Lab Sample Id: 678077-001 Date Collected: 11.13.2020 06:30

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 11.17.2020 17:45 % Moisture:

Seq Number: 3142578 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.99	4.99	mg/kg	11.18.2020 08:25	UX	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.18.2020 17:00 % Moisture:

Seq Number: 3142734 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**51.0**	50.0	mg/kg	11.19.2020 05:10		1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.19.2020 05:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.19.2020 05:10	U	1
Total TPH	PHC635	**51.00**	50.00	mg/kg	11.19.2020 05:10		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	76	%	70-130	11.19.2020 05:10	
o-Terphenyl	84-15-1	85	%	70-130	11.19.2020 05:10	

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Certificate of Analytical Results 678077

Hungry Horse LLC, Hobbs, NM

CS Caylor Leak #2

Sample Id: **BH 1**
Lab Sample Id: 678077-001
Matrix: Soil
Date Collected: 11.13.2020 06:30
Date Received: 11.17.2020 11:19

Analytical Method: BTEX by EPA 8021B
Tech: MNR
Analyst: MNR
Seq Number: 3142724
Date Prep: 11.18.2020 15:00
Prep Method: SW5035A
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.19.2020 11:16	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.19.2020 11:16	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.19.2020 11:16	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.19.2020 11:16	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.19.2020 11:16	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	11.19.2020 11:16	U	1
Total BTEX		<0.002000	0.002000	mg/kg	11.19.2020 11:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	123	%	70-130	11.19.2020 11:16	
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.19.2020 11:16	

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Certificate of Analytical Results 678077

Hungry Horse LLC, Hobbs, NM

CS Caylor Leak #2

Sample Id: **BH 2** Matrix: Soil Date Received:11.17.2020 11:19

Lab Sample Id: 678077-002 Date Collected: 11.13.2020 06:40

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 11.17.2020 17:45 % Moisture:

Seq Number: 3142578 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.00	5.00	mg/kg	11.18.2020 08:32	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.18.2020 17:00 % Moisture:

Seq Number: 3142734 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.19.2020 05:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.19.2020 05:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.19.2020 05:31	U	1
Total TPH	PHC635	<49.90	49.90	mg/kg	11.19.2020 05:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	62	%	70-130	11.19.2020 05:31	**
o-Terphenyl	84-15-1	70	%	70-130	11.19.2020 05:31	

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Certificate of Analytical Results 678077

Hungry Horse LLC, Hobbs, NM

CS Caylor Leak #2

Sample Id: **BH 2**
Lab Sample Id: 678077-002
Matrix: Soil
Date Collected: 11.13.2020 06:40
Date Received: 11.17.2020 11:19

Analytical Method: BTEX by EPA 8021B
Tech: MNR
Analyst: MNR
Seq Number: 3142829
Date Prep: 11.19.2020 17:00
Prep Method: SW5035A
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.00301**	0.00200	mg/kg	11.20.2020 11:23		1
Toluene	108-88-3	**0.00251**	0.00200	mg/kg	11.20.2020 11:23		1
Ethylbenzene	100-41-4	**0.00636**	0.00200	mg/kg	11.20.2020 11:23		1
m,p-Xylenes	179601-23-1	**0.00982**	0.00399	mg/kg	11.20.2020 11:23		1
o-Xylene	95-47-6	**0.0160**	0.00200	mg/kg	11.20.2020 11:23		1
Total Xylenes	1330-20-7	**0.02582**	0.002000	mg/kg	11.20.2020 11:23		1
Total BTEX		**0.03770**	0.002000	mg/kg	11.20.2020 11:23		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	84	%	70-130	11.20.2020 11:23	
4-Bromofluorobenzene	460-00-4	81	%	70-130	11.20.2020 11:23	

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Certificate of Analytical Results 678077

Hungry Horse LLC, Hobbs, NM

CS Caylor Leak #2

Sample Id: **SW1** Matrix: Soil Date Received:11.17.2020 11:19

Lab Sample Id: 678077-003 Date Collected: 11.13.2020 06:45

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 11.17.2020 17:45 % Moisture:

Seq Number: 3142578 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.99	4.99	mg/kg	11.17.2020 20:56	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.18.2020 17:00 % Moisture:

Seq Number: 3142734 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.19.2020 05:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.19.2020 05:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.19.2020 05:51	U	1
Total TPH	PHC635	<50.00	50.00	mg/kg	11.19.2020 05:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	68	%	70-130	11.19.2020 05:51	**
o-Terphenyl	84-15-1	79	%	70-130	11.19.2020 05:51	

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Certificate of Analytical Results 678077

Hungry Horse LLC, Hobbs, NM

CS Caylor Leak #2

Sample Id: **SW1**
Lab Sample Id: 678077-003
Matrix: Soil
Date Collected: 11.13.2020 06:45
Date Received: 11.17.2020 11:19

Analytical Method: BTEX by EPA 8021B
Tech: MNR
Analyst: MNR
Seq Number: 3142724
Date Prep: 11.18.2020 15:00
Prep Method: SW5035A
% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	11.19.2020 12:08	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	11.19.2020 12:08	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	11.19.2020 12:08	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	11.19.2020 12:08	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	11.19.2020 12:08	U	1
Total Xylenes	1330-20-7	<0.002010	0.002010	mg/kg	11.19.2020 12:08	U	1
Total BTEX		<0.002010	0.002010	mg/kg	11.19.2020 12:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	127	%	70-130	11.19.2020 12:08	
1,4-Difluorobenzene	540-36-3	102	%	70-130	11.19.2020 12:08	

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Certificate of Analytical Results 678077

Hungry Horse LLC, Hobbs, NM

CS Caylor Leak #2

Sample Id:	**SW2**	Matrix:	Soil	Date Received:	11.17.2020 11:19
Lab Sample Id:	678077-004	Date Collected:	11.13.2020 06:57		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC				
Analyst:	SPC	Date Prep:	11.17.2020 17:45	% Moisture:	
Seq Number:	3142578			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.99	4.99	mg/kg	11.17.2020 21:03	U	1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	11.18.2020 17:00	% Moisture:	
Seq Number:	3142734			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**62.0**	49.9	mg/kg	11.19.2020 07:13		1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.19.2020 07:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.19.2020 07:13	U	1
Total TPH	PHC635	**62.00**	49.90	mg/kg	11.19.2020 07:13		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	70	%	70-130	11.19.2020 07:13	
o-Terphenyl	84-15-1	81	%	70-130	11.19.2020 07:13	

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Certificate of Analytical Results 678077

Hungry Horse LLC, Hobbs, NM

CS Caylor Leak #2

Sample Id:	**SW2**	Matrix:	Soil	Date Received:	11.17.2020 11:19
Lab Sample Id:	678077-004	Date Collected:	11.13.2020 06:57		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	11.18.2020 15:00	% Moisture:	
Seq Number:	3142724			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.19.2020 12:34	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.19.2020 12:34	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.19.2020 12:34	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.19.2020 12:34	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.19.2020 12:34	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	11.19.2020 12:34	U	1
Total BTEX		<0.002000	0.002000	mg/kg	11.19.2020 12:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	130	%	70-130	11.19.2020 12:34	
1,4-Difluorobenzene	540-36-3	102	%	70-130	11.19.2020 12:34	

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Certificate of Analytical Results 678077

Hungry Horse LLC, Hobbs, NM

CS Caylor Leak #2

Sample Id: **SW3** Matrix: Soil Date Received:11.17.2020 11:19

Lab Sample Id: 678077-005 Date Collected: 11.13.2020 07:05

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: SPC

Analyst: SPC Date Prep: 11.17.2020 17:45 % Moisture:

Seq Number: 3142578 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.99	4.99	mg/kg	11.17.2020 21:10	U	1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 11.18.2020 17:00 % Moisture:

Seq Number: 3142734 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**51.6**	49.9	mg/kg	11.19.2020 06:32		1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.19.2020 06:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.19.2020 06:32	U	1
Total TPH	PHC635	**51.60**	49.90	mg/kg	11.19.2020 06:32		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	63	%	70-130	11.19.2020 06:32	**
o-Terphenyl	84-15-1	72	%	70-130	11.19.2020 06:32	

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Hungry Horse LLC, Hobbs, NM

CS Caylor Leak #2

Sample Id:	**SW3**	Matrix:	Soil	Date Received:	11.17.2020 11:19
Lab Sample Id:	678077-005	Date Collected:	11.13.2020 07:05		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	11.18.2020 15:00	% Moisture:	
Seq Number:	3142724			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	11.19.2020 12:59	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	11.19.2020 12:59	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	11.19.2020 12:59	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	11.19.2020 12:59	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	11.19.2020 12:59	U	1
Total Xylenes	1330-20-7	<0.001990	0.001990	mg/kg	11.19.2020 12:59	U	1
Total BTEX		<0.001990	0.001990	mg/kg	11.19.2020 12:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	124	%	70-130	11.19.2020 12:59	
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.19.2020 12:59	

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Certificate of Analytical Results 678077

Hungry Horse LLC, Hobbs, NM

CS Caylor Leak #2

Sample Id:	**SW4**	Matrix:	Soil	Date Received:	11.17.2020 11:19
Lab Sample Id:	678077-006	Date Collected:	11.13.2020 07:10		

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC				
Analyst:	SPC	Date Prep:	11.17.2020 17:45	% Moisture:	
Seq Number:	3142578			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.98	4.98	mg/kg	11.17.2020 21:17	U	1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM				
Analyst:	ARM	Date Prep:	11.18.2020 17:00	% Moisture:	
Seq Number:	3142734			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**52.9**	50.0	mg/kg	11.19.2020 06:52		1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.19.2020 06:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.19.2020 06:52	U	1
Total TPH	PHC635	**52.90**	50.00	mg/kg	11.19.2020 06:52		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	67	%	70-130	11.19.2020 06:52	**
o-Terphenyl	84-15-1	75	%	70-130	11.19.2020 06:52	

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Certificate of Analytical Results 678077

Hungry Horse LLC, Hobbs, NM

CS Caylor Leak #2

Sample Id:	**SW4**	Matrix:	Soil	Date Received:	11.17.2020 11:19
Lab Sample Id:	678077-006	Date Collected:	11.13.2020 07:10		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MNR				
Analyst:	MNR	Date Prep:	11.18.2020 15:00	% Moisture:	
Seq Number:	3142724			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	11.19.2020 13:25	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	11.19.2020 13:25	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	11.19.2020 13:25	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	11.19.2020 13:25	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	11.19.2020 13:25	U	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	11.19.2020 13:25	U	1
Total BTEX		<0.002000	0.002000	mg/kg	11.19.2020 13:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	59	%	70-130	11.19.2020 13:25	**
1,4-Difluorobenzene	540-36-3	99	%	70-130	11.19.2020 13:25	

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

QC Summary 678077

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Hungry Horse LLC

CS Caylor Leak #2

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3142578 — Matrix: Solid — Date Prep: 11.17.2020
MB Sample Id: 7715387-1-BLK — LCS Sample Id: 7715387-1-BKS — LCSD Sample Id: 7715387-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	263	105	264	106	90-110	0	20	mg/kg	11.17.2020 17:57	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3142578 — Matrix: Soil — Date Prep: 11.17.2020
Parent Sample Id: 678077-001 — MS Sample Id: 678077-001 S — MSD Sample Id: 678077-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<4.99	250	285	114	284	114	90-110	0	20	mg/kg	11.17.2020 18:19	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3142578 — Matrix: Soil — Date Prep: 11.17.2020
Parent Sample Id: 678077-002 — MS Sample Id: 678077-002 S — MSD Sample Id: 678077-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	268	107	265	106	90-110	1	20	mg/kg	11.17.2020 19:59	

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3142734 — Matrix: Solid — Date Prep: 11.18.2020
MB Sample Id: 7715501-1-BLK — LCS Sample Id: 7715501-1-BKS — LCSD Sample Id: 7715501-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.00	1000	1034	103	992.7	99	70-130	4	20	mg/kg	11.19.2020 02:51	
Diesel Range Organics (DRO)	<50.00	1000	1005	101	993.7	99	70-130	1	20	mg/kg	11.19.2020 02:51	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	97		109		101		70-130	%	11.19.2020 02:51
o-Terphenyl	119		101		95		70-130	%	11.19.2020 02:51

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3142734 — Matrix: Solid — Date Prep: 11.18.2020
MB Sample Id: 7715501-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.00	mg/kg	11.19.2020 02:31	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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QC Summary 678077

Hungry Horse LLC

CS Caylor Leak #2

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3142734 Matrix: Soil Date Prep: 11.18.2020
Parent Sample Id: 677958-001 MS Sample Id: 677958-001 S MSD Sample Id: 677958-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.95	999.0	941.3	94	918.2	92	70-130	2	20	mg/kg	11.19.2020 03:50	
Diesel Range Organics (DRO)	<49.95	999.0	972.7	97	983.8	99	70-130	1	20	mg/kg	11.19.2020 03:50	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	88		92		70-130	%	11.19.2020 03:50
o-Terphenyl	73		71		70-130	%	11.19.2020 03:50

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3142724 Matrix: Solid Date Prep: 11.18.2020
MB Sample Id: 7715511-1-BLK LCS Sample Id: 7715511-1-BKS LCSD Sample Id: 7715511-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.002000	0.1000	0.1078	108	0.1066	107	70-130	1	35	mg/kg	11.19.2020 00:54	
Toluene	<0.002000	0.1000	0.1124	112	0.1078	108	70-130	4	35	mg/kg	11.19.2020 00:54	
Ethylbenzene	<0.002000	0.1000	0.1136	114	0.1107	111	70-130	3	35	mg/kg	11.19.2020 00:54	
m,p-Xylenes	<0.004000	0.2000	0.2254	113	0.2192	110	70-130	3	35	mg/kg	11.19.2020 00:54	
o-Xylene	<0.002000	0.1000	0.1116	112	0.1085	109	70-130	3	35	mg/kg	11.19.2020 00:54	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	91		102		104		70-130	%	11.19.2020 00:54
4-Bromofluorobenzene	123		103		104		70-130	%	11.19.2020 00:54

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3142829 Matrix: Solid Date Prep: 11.19.2020
MB Sample Id: 7715600-1-BLK LCS Sample Id: 7715600-1-BKS LCSD Sample Id: 7715600-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.002000	0.1000	0.09819	98	0.09407	94	70-130	4	35	mg/kg	11.20.2020 00:04	
Toluene	<0.002000	0.1000	0.1025	103	0.1006	101	70-130	2	35	mg/kg	11.20.2020 00:04	
Ethylbenzene	<0.002000	0.1000	0.1044	104	0.1009	101	70-130	3	35	mg/kg	11.20.2020 00:04	
m,p-Xylenes	<0.004000	0.2000	0.2060	103	0.1993	100	70-130	3	35	mg/kg	11.20.2020 00:04	
o-Xylene	<0.002000	0.1000	0.1016	102	0.09893	99	70-130	3	35	mg/kg	11.20.2020 00:04	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	79		107		99		70-130	%	11.20.2020 00:04
4-Bromofluorobenzene	143	**	101		102		70-130	%	11.20.2020 00:04

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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QC Summary 678077

Hungry Horse LLC

CS Caylor Leak #2

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A

Seq Number: 3142724 Matrix: Soil Date Prep: 11.18.2020

Parent Sample Id: 677958-001 MS Sample Id: 677958-001 S MSD Sample Id: 677958-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.001996	0.09980	0.1390	139	0.1595	160	70-130	14	35	mg/kg	11.19.2020 01:46	X
Toluene	<0.001996	0.09980	0.1365	137	0.1525	153	70-130	11	35	mg/kg	11.19.2020 01:46	X
Ethylbenzene	<0.001996	0.09980	0.1350	135	0.1475	148	70-130	9	35	mg/kg	11.19.2020 01:46	X
m,p-Xylenes	<0.003992	0.2000	0.2596	130	0.2868	143	70-130	10	35	mg/kg	11.19.2020 01:46	X
o-Xylene	<0.001996	0.09980	0.1376	138	0.1469	147	70-130	7	35	mg/kg	11.19.2020 01:46	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		102		70-130	%	11.19.2020 01:46
4-Bromofluorobenzene	107		105		70-130	%	11.19.2020 01:46

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A

Seq Number: 3142829 Matrix: Soil Date Prep: 11.19.2020

Parent Sample Id: 678410-001 MS Sample Id: 678410-001 S MSD Sample Id: 678410-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	0.005309	0.09980	0.06015	55	0.03547	30	70-130	52	35	mg/kg	11.20.2020 00:56	XF
Toluene	0.05091	0.09980	0.08825	37	0.05673	6	70-130	43	35	mg/kg	11.20.2020 00:56	XF
Ethylbenzene	0.08929	0.09980	0.1150	26	0.08852	0	70-130	26	35	mg/kg	11.20.2020 00:56	X
m,p-Xylenes	0.3543	0.2000	0.3836	15	0.2773	0	70-130	32	35	mg/kg	11.20.2020 00:56	X
o-Xylene	0.1438	0.09980	0.1560	12	0.09443	0	70-130	49	35	mg/kg	11.20.2020 00:56	XF

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	80		53	**	70-130	%	11.20.2020 00:56
4-Bromofluorobenzene	228	**	142	**	70-130	%	11.20.2020 00:56

MS/MSD Percent Recovery [D] = 100*(C-A) / B

Relative Percent Difference RPD = 200* | (C-E) / (C+E) |

LCS/LCSD Recovery [D] = 100 * (C) / [B]

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample

A = Parent Result

C = MS/LCS Result

E = MSD/LCSD Result

MS = Matrix Spike

B = Spike Added

D = MSD/LCSD % Rec

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

Work Order No: 678077

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Project Manager:	Lindsey Nevels	Bill to: (if different)	
Company Name:	Hungry Horse	Company Name:	
Address:	PO Box 1058	Address:	
City, State ZIP:	Hobbs NM 88241	City, State ZIP:	
Phone:	432 241 2480	Email:	pm@hungry-horse.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	CS Taylor Leak #2	Turn Around	
Project Number:	Grizzly Energy	☒ Routine ☐ Rush	
Project Location		Due Date:	
Sampler's Name:	Anston Rich	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Received Intact:	(Yes) No	Thermometer ID:	188
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	0.5
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	1.5
Total Containers:		Corrected Temperature:	2.0

ANALYSIS REQUEST

Preservative Codes

None: NO — DI Water: H_2O
Cool: Cool — MeOH: Me
HCL: HC — HNO_3: HN
H_2S0_4: H_2 — NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Parameters: Chloride	BTEX	TPH	Sample Comments
BH 1		11/13/20	6:30am				X	X	X	
BH 2		11/13/20	6:40				X	X	X	
SW 1		11/13/20	6:45				X	X	X	
SW 2		11/13/20	6:57				X	X	X	
SW 3		11/13/20	7:05				X	X	X	
SW 4		11/13/20	7:10							

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: **1631 / 245.1 / 7470 / 7471**

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Armida Bustillo	2:25 11-16-20	2 Armida Bustillo		1117
3			4		
5			6		1119

Revised Date 05012020 Rev. 2020.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Hungry Horse LLC

Date/ Time Received: 11.17.2020 11.19.00 AM

Work Order #: 678077

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR8

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	2	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**	
#5 Custody Seals intact on sample bottles?	**N/A**	
#6*Custody Seals Signed and dated?	**N/A**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	BTEX was in bulk container
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**N/A**	
#18 Water VOC samples have zero headspace?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 11.17.2020
Brianna Teel

Checklist reviewed by: Holly Taylor Date: 11.18.2020
Holly Taylor

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Certificate of Analysis Summary 679278

Hungry Horse LLC, Hobbs, NM

Project Name: CS Caylor Leak 2

Project Id:

Contact: Daniel Dominquez

Project Location: Grizzly

Date Received in Lab: Tue 12.01.2020 12:45

Report Date: 12.08.2020 10:01

Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	679278-001		679278-002		679278-003		679278-004					
	Field Id:	HZ1-B		HZ2-B		HZ3-B		HZ4-B					
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	11.21.2020 00:00		11.21.2020 00:00		11.21.2020 00:00		11.21.2020 00:00					
BTEX by EPA 8021B	***Extracted:***	12.03.2020 17:00		12.03.2020 17:00		12.03.2020 17:00		12.03.2020 17:00					
	Analyzed:	12.04.2020 05:52		12.04.2020 06:12		12.04.2020 06:33		12.04.2020 06:53					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00202	0.00202				
Toluene		<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00202	0.00202				
Ethylbenzene		<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00202	0.00202				
m,p-Xylenes		<0.00399	0.00399	<0.00398	0.00398	<0.00398	0.00398	<0.00404	0.00404				
o-Xylene		<0.00200	0.00200	0.00612	0.00199	0.00575	0.00199	0.00684	0.00202				
Total Xylenes		<0.002000	0.002000	0.006120	0.001990	0.005750	0.001990	0.006840	0.002020				
Total BTEX		<0.002000	0.002000	0.006120	0.001990	0.005750	0.001990	0.006840	0.002020				
Chloride by EPA 300	***Extracted:***	12.02.2020 16:50		12.02.2020 16:50		12.02.2020 16:50		12.02.2020 16:50					
	Analyzed:	12.02.2020 19:10		12.02.2020 19:15		12.02.2020 19:31		12.02.2020 19:36					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		9.28	5.04	9.42	4.99	8.31	4.96	8.75	5.00				
TPH By SW8015 Mod	***Extracted:***	12.01.2020 17:00		12.01.2020 17:00		12.01.2020 17:00		12.01.2020 17:00					
	Analyzed:	12.02.2020 02:39		12.02.2020 03:01		12.02.2020 03:23		12.02.2020 03:45					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8				
Diesel Range Organics (DRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8				
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8				
Total TPH		<50.00	50.00	<50.00	50.00	<49.90	49.90	<49.80	49.80				

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Analytical Report 679278

for

Hungry Horse LLC

Project Manager: Daniel Dominquez

CS Caylor Leak 2

12.08.2020

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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12.08.2020

Project Manager: **Daniel Dominquez**
Hungry Horse LLC
P. O. Box 1058
Hobbs, NM 88241

Reference: Eurofins Xenco, LLC Report No(s): **679278**
CS Caylor Leak 2
Project Address: Grizzly

Daniel Dominquez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 679278. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 679278 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Holly Taylor

Holly Taylor
Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

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Sample Cross Reference 679278

Hungry Horse LLC, Hobbs, NM

CS Caylor Leak 2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
HZ1-B	S	11.21.2020 00:00		679278-001
HZ2-B	S	11.21.2020 00:00		679278-002
HZ3-B	S	11.21.2020 00:00		679278-003
HZ4-B	S	11.21.2020 00:00		679278-004

CASE NARRATIVE

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Client Name: Hungry Horse LLC

Project Name: CS Caylor Leak 2

Project ID:
Work Order Number(s): *679278*

Report Date: *12.08.2020*
Date Received: *12.01.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3143914 BTEX by EPA 8021B

Lab Sample ID 679278-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 679278-001, -002, -003, -004.

The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene Relative Percent Difference (RPD) between matrix spike and duplicate were above quality control limits.
Samples in the analytical batch are: 679278-001, -002, -003, -004

Surrogate 1,4-Difluorobenzene, Surrogate 4-Bromofluorobenzene recovered below QC limits. Matrix interferences is suspected.
Samples affected are: 679278-001 SD.

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Certificate of Analytical Results 679278

Hungry Horse LLC, Hobbs, NM

CS Caylor Leak 2

Sample Id: **HZ1-B** Matrix: Soil Date Received:12.01.2020 12:45

Lab Sample Id: 679278-001 Date Collected: 11.21.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 12.02.2020 16:50 % Moisture:

Seq Number: 3143766 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9.28**	5.04	mg/kg	12.02.2020 19:10		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 12.01.2020 17:00 % Moisture:

Seq Number: 3143721 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.02.2020 02:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.02.2020 02:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.02.2020 02:39	U	1
Total TPH	PHC635	<50.00	50.00	mg/kg	12.02.2020 02:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	77	%	70-130	12.02.2020 02:39	
o-Terphenyl	84-15-1	86	%	70-130	12.02.2020 02:39	

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Certificate of Analytical Results 679278

Hungry Horse LLC, Hobbs, NM

CS Caylor Leak 2

Sample Id:	**HZ1-B**	Matrix:	Soil	Date Received:	12.01.2020 12:45
Lab Sample Id:	679278-001	Date Collected:	11.21.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	12.03.2020 17:00	% Moisture:	
Seq Number:	3143914			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.04.2020 05:52	UXF	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.04.2020 05:52	UXF	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.04.2020 05:52	UXF	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.04.2020 05:52	UXF	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.04.2020 05:52	UXF	1
Total Xylenes	1330-20-7	<0.002000	0.002000	mg/kg	12.04.2020 05:52	U	1
Total BTEX		<0.002000	0.002000	mg/kg	12.04.2020 05:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	124	%	70-130	12.04.2020 05:52	
1,4-Difluorobenzene	540-36-3	94	%	70-130	12.04.2020 05:52	

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Certificate of Analytical Results 679278

Hungry Horse LLC, Hobbs, NM

CS Caylor Leak 2

Sample Id: **HZ2-B** Matrix: Soil Date Received:12.01.2020 12:45

Lab Sample Id: 679278-002 Date Collected: 11.21.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 12.02.2020 16:50 % Moisture:

Seq Number: 3143766 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9.42**	4.99	mg/kg	12.02.2020 19:15		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 12.01.2020 17:00 % Moisture:

Seq Number: 3143721 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.02.2020 03:01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	12.02.2020 03:01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.02.2020 03:01	U	1
Total TPH	PHC635	<50.00	50.00	mg/kg	12.02.2020 03:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-130	12.02.2020 03:01	
o-Terphenyl	84-15-1	103	%	70-130	12.02.2020 03:01	

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Certificate of Analytical Results 679278

Hungry Horse LLC, Hobbs, NM

CS Caylor Leak 2

Sample Id:	**HZ2-B**	Matrix:	Soil	Date Received:	12.01.2020 12:45
Lab Sample Id:	679278-002	Date Collected:	11.21.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	12.03.2020 17:00	% Moisture:	
Seq Number:	3143914			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.04.2020 06:12	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.04.2020 06:12	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.04.2020 06:12	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.04.2020 06:12	U	1
o-Xylene	95-47-6	**0.00612**	0.00199	mg/kg	12.04.2020 06:12		1
Total Xylenes	1330-20-7	**0.006120**	0.001990	mg/kg	12.04.2020 06:12		1
Total BTEX		**0.006120**	0.001990	mg/kg	12.04.2020 06:12		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	12.04.2020 06:12	
4-Bromofluorobenzene	460-00-4	102	%	70-130	12.04.2020 06:12	

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Certificate of Analytical Results 679278

Hungry Horse LLC, Hobbs, NM

CS Caylor Leak 2

Sample Id: **HZ3-B** Matrix: Soil Date Received:12.01.2020 12:45

Lab Sample Id: 679278-003 Date Collected: 11.21.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 12.02.2020 16:50 % Moisture:

Seq Number: 3143766 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8.31**	4.96	mg/kg	12.02.2020 19:31		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 12.01.2020 17:00 % Moisture:

Seq Number: 3143721 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.02.2020 03:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.02.2020 03:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.02.2020 03:23	U	1
Total TPH	PHC635	<49.90	49.90	mg/kg	12.02.2020 03:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-130	12.02.2020 03:23	
o-Terphenyl	84-15-1	102	%	70-130	12.02.2020 03:23	

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Certificate of Analytical Results 679278

Hungry Horse LLC, Hobbs, NM

CS Caylor Leak 2

Sample Id:	**HZ3-B**	Matrix:	Soil	Date Received:	12.01.2020 12:45
Lab Sample Id:	679278-003	Date Collected:	11.21.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	12.03.2020 17:00	% Moisture:	
Seq Number:	3143914			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.04.2020 06:33	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.04.2020 06:33	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.04.2020 06:33	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.04.2020 06:33	U	1
o-Xylene	95-47-6	**0.00575**	0.00199	mg/kg	12.04.2020 06:33		1
Total Xylenes	1330-20-7	**0.005750**	0.001990	mg/kg	12.04.2020 06:33		1
Total BTEX		**0.005750**	0.001990	mg/kg	12.04.2020 06:33		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	12.04.2020 06:33	
1,4-Difluorobenzene	540-36-3	101	%	70-130	12.04.2020 06:33	

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Certificate of Analytical Results 679278

Hungry Horse LLC, Hobbs, NM

CS Caylor Leak 2

Sample Id: **HZ4-B** Matrix: Soil Date Received:12.01.2020 12:45

Lab Sample Id: 679278-004 Date Collected: 11.21.2020 00:00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE

Analyst: CHE Date Prep: 12.02.2020 16:50 % Moisture:

Seq Number: 3143766 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8.75**	5.00	mg/kg	12.02.2020 19:36		1

Analytical Method: TPH By SW8015 Mod Prep Method: SW8015P

Tech: DVM

Analyst: ARM Date Prep: 12.01.2020 17:00 % Moisture:

Seq Number: 3143721 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	12.02.2020 03:45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	12.02.2020 03:45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	12.02.2020 03:45	U	1
Total TPH	PHC635	<49.80	49.80	mg/kg	12.02.2020 03:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-130	12.02.2020 03:45	
o-Terphenyl	84-15-1	97	%	70-130	12.02.2020 03:45	

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Certificate of Analytical Results 679278

Hungry Horse LLC, Hobbs, NM

CS Caylor Leak 2

Sample Id:	**HZ4-B**	Matrix:	Soil	Date Received:	12.01.2020 12:45
Lab Sample Id:	679278-004	Date Collected:	11.21.2020 00:00		
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	KTL				
Analyst:	KTL	Date Prep:	12.03.2020 17:00	% Moisture:	
Seq Number:	3143914			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	12.04.2020 06:53	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	12.04.2020 06:53	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	12.04.2020 06:53	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	12.04.2020 06:53	U	1
o-Xylene	95-47-6	**0.00684**	0.00202	mg/kg	12.04.2020 06:53		1
Total Xylenes	1330-20-7	**0.006840**	0.002020	mg/kg	12.04.2020 06:53		1
Total BTEX		**0.006840**	0.002020	mg/kg	12.04.2020 06:53		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96	%	70-130	12.04.2020 06:53	
4-Bromofluorobenzene	460-00-4	110	%	70-130	12.04.2020 06:53	

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Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample **BKSD/LCSD** Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate **MS** Matrix Spike **MSD:** Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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QC Summary 679278

Hungry Horse LLC

CS Caylor Leak 2

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143766 — Matrix: Solid — Date Prep: 12.02.2020
MB Sample Id: 7716309-1-BLK — LCS Sample Id: 7716309-1-BKS — LCSD Sample Id: 7716309-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	252	101	252	101	90-110	0	20	mg/kg	12.02.2020 17:20	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143766 — Matrix: Soil — Date Prep: 12.02.2020
Parent Sample Id: 679349-003 — MS Sample Id: 679349-003 S — MSD Sample Id: 679349-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	11.4	250	274	105	274	105	90-110	0	20	mg/kg	12.02.2020 17:46	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3143766 — Matrix: Soil — Date Prep: 12.02.2020
Parent Sample Id: 679349-013 — MS Sample Id: 679349-013 S — MSD Sample Id: 679349-013 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	14.1	248	270	103	270	103	90-110	0	20	mg/kg	12.02.2020 18:59	

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3143721 — Matrix: Solid — Date Prep: 12.01.2020
MB Sample Id: 7716218-1-BLK — LCS Sample Id: 7716218-1-BKS — LCSD Sample Id: 7716218-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	951	95	812	81	70-130	16	20	mg/kg	12.01.2020 18:55	
Diesel Range Organics (DRO)	<50.0	1000	870	87	872	87	70-130	0	20	mg/kg	12.01.2020 18:55	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	93		101		101		70-130	%	12.01.2020 18:55
o-Terphenyl	102		101		106		70-130	%	12.01.2020 18:55

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3143721 — Matrix: Solid — Date Prep: 12.01.2020
MB Sample Id: 7716218-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	12.01.2020 18:33	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

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QC Summary 679278

Hungry Horse LLC

CS Caylor Leak 2

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3143721 Matrix: Soil Date Prep: 12.01.2020
Parent Sample Id: 679349-001 MS Sample Id: 679349-001 S MSD Sample Id: 679349-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	849	85	824	83	70-130	3	20	mg/kg	12.01.2020 20:00	
Diesel Range Organics (DRO)	58.4	998	886	83	908	85	70-130	2	20	mg/kg	12.01.2020 20:00	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	93		94		70-130	%	12.01.2020 20:00
o-Terphenyl	91		96		70-130	%	12.01.2020 20:00

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3143914 Matrix: Solid Date Prep: 12.03.2020
MB Sample Id: 7716408-1-BLK LCS Sample Id: 7716408-1-BKS LCSD Sample Id: 7716408-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0924	92	0.0930	93	70-130	1	35	mg/kg	12.04.2020 03:30	
Toluene	<0.00200	0.100	0.0884	88	0.0883	88	70-130	0	35	mg/kg	12.04.2020 03:30	
Ethylbenzene	<0.00200	0.100	0.0977	98	0.0978	98	70-130	0	35	mg/kg	12.04.2020 03:30	
m,p-Xylenes	<0.00400	0.200	0.192	96	0.192	96	70-130	0	35	mg/kg	12.04.2020 03:30	
o-Xylene	<0.00200	0.100	0.0959	96	0.0966	97	70-130	1	35	mg/kg	12.04.2020 03:30	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		101		99		70-130	%	12.04.2020 03:30
4-Bromofluorobenzene	105		103		100		70-130	%	12.04.2020 03:30

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3143914 Matrix: Soil Date Prep: 12.03.2020
Parent Sample Id: 679278-001 MS Sample Id: 679278-001 S MSD Sample Id: 679278-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.101	0.0825	82	<0.00200	0	70-130	200	35	mg/kg	12.04.2020 04:11	XF
Toluene	<0.00201	0.101	0.0788	78	<0.00200	0	70-130	200	35	mg/kg	12.04.2020 04:11	XF
Ethylbenzene	<0.00201	0.101	0.0876	87	<0.00200	0	70-130	200	35	mg/kg	12.04.2020 04:11	XF
m,p-Xylenes	<0.00402	0.201	0.170	85	<0.00401	0	70-130	200	35	mg/kg	12.04.2020 04:11	XF
o-Xylene	<0.00201	0.101	0.0861	85	<0.00200	0	70-130	200	35	mg/kg	12.04.2020 04:11	XF

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		0	**	70-130	%	12.04.2020 04:11
4-Bromofluorobenzene	105		0	**	70-130	%	12.04.2020 04:11

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

Work Order No: 679278

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Project Manager:	Lindsey Nevels	Bill to: (if different)	
Company Name:	Hungry Horse	Company Name:	
Address:	4024 Plains Hwy	Address:	
City, State ZIP:	Lovington N.M	City, State ZIP:	
Phone:	Email:		

Project Name:	CS Cayor LEAK 2
Project Number:	
Project Location	Grizzly
Sampler's Name:	Ashton Rich
PO #:	

Turn Around
☒ Routine ☐ Rush
Due Date:
TAT starts the day received by the lab, if received by 4:30pm

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Received Intact:	(Yes) No	Thermometer ID:	IR8
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	0.5
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	1.6
Total Containers:		Corrected Temperature:	2.1

Work Order Comments
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chloride	BTEX	TPH
H21-B		11/24/20		Surf				X	X	X
H22-B		11/24/20		Surf				X	X	X
H23-B		11/24/20		Surf				X	X	X
H24-B		11/24/20		Surf				X	X	X

Preservative Codes

None: NO	DI Water: H_2O
Cool: Cool	MeOH: Me
HCL: HC	HNO_3: HN
H_2S0_4: H_2	NaOH: Na
H_3PO_4: HP	
$NaHSO_4$: NABIS	
$Na_2S_2O_3$: $NaSO_3$	
Zn Acetate+NaOH: Zn	
NaOH+Ascorbic Acid: SAPC	

Sample Comments

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Ashton Rich	Esperanza Cerrillo	11/25/20 10:41	2 Esperanza Cerrillo		12/01/20 1245
3			4		
5			6		

Revised Date 05012020 Rev. 2020.1


ORIGIN ID:HOBA (575) 392-7550
*
MAIL SERVICES ETC
4008 N GRIMES
HOBBS, NM 88240
UNITED STATES US
SHIP DATE: 30NOV20
ACTWGT: 19.00 LB MAN
CAD: 0103352/CAFE3313
DIMS: 18x16x12 IN
BILL RECIPIENT
TO XENCO HOLD FOR PICKUP
FEDEX EXPRESS SHIP CENTER
FEDEX EXPRESS SHIP CENTER
3600 COUNTY ROAD 1276 SOUTH
MIDLAND TX 79711
(432) 704-5440
REF:
INV:
PO:
DEPT:
565C2/9196/05A2
FedEx
Express
TRK# 0201 9401 5655 8128
TUE - 01 DEC HOLD
PRIORITY OVERNIGHT
HLD
41 MAFA
MAFA
TX-US LBB

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Hungry Horse LLC

Date/ Time Received: 12.01.2020 12.45.00 PM

Work Order #: 679278

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR8

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	2.1	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**	
#5 Custody Seals intact on sample bottles?	**N/A**	
#6*Custody Seals Signed and dated?	**N/A**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	BTEX was in bulk container
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**N/A**	
#18 Water VOC samples have zero headspace?	**N/A**	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 12.01.2020
Brianna Teel

Checklist reviewed by: Holly Taylor Date: 12.01.2020
Holly Taylor

Attachment V
NMOCD Form C-141 Remediation and Closure Pages

State of New Mexico
Oil Conservation Division

Incident ID	NRM2032857772
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	51-100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☒ Yes ☐ No

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

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NRM2032857772
District RP	
Facility ID	
Application ID	

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: Carmen E Pitt Title: Senior EHS Specialist

Signature: Carmen E Pitt Date: 12/17/2020

email: cpitt@grizzlyenergyllc.com Telephone: 432-248-8145

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	NRM2032857772
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Carmen E Pitt Title: Senior EHS Specialist

Signature: Carmen E Pitt Date: 12/17/2020

email: cpitt@grizzlyenergyllc.com Telephone: 432-248-8145

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

Form C-141
Page 6

State of New Mexico
Oil Conservation Division

Incident ID	NRM2032857772
District RP	
Facility ID	
Application ID	

Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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

Printed Name: Carmen E Pitt Title: Senior EHS Specialist

Signature: Carmen E Pitt Date: 12/17/2020

email: cpitt@grizzlyenergyllc.com Telephone: 432-248-8145

OCD Only

Received by: Cristina Eads Date: 12/16/2020

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

Closure Approved by: Date: 02/19/2021

Printed Name: Cristina Eads Title: Environmental Specialist

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

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

CONDITIONS

Action 12397

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
GRIZZLY OPERATING, LLC	5847 San Felipe, Suite 3000	Houston, TX77057	258350	12397	C-141

OCD Reviewer	Condition
ceads	None