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Final Closure Report

Grizzly Operating, LLC
State L "A" Tr 1.2
Lea County, New Mexico
Unit Letter "G", Section 1, Township 17 South, Range 36 East
Latitude 32.86755 North, Longitude 103.30454 West
NMOCD Incident # nCH1828533458; NCE2002946094

Prepared For:

Grizzly Operating, LLC
4001 Penbrook, Suite 201
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September 2020

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Table Of Contents

Background	1
NMOCD Site Classification	1
Delineation and Remediation Activities	2
Restoration, Reclamation, and Re-Vegetation	5
Closure Request	5
Limitations	5
Distribution	6

Figures

Figure 1 – Topographic Map
Figure 2 – OSE POD Locations Map
Figure 3 – USGS Well Locations Map
Figure 4 – 2018 Delineation Map
Figure 5 – 2019 Delineation Map
Figure 6 – Confirmation Sample Location Map

Tables

Table 1 – Summary of Soil Sample Laboratory Analytical Results

Attachments

Attachment I – Site Photographs
Attachment II – Depth to Groundwater Information
Attachment III – Field Data
Attachment IV – Laboratory Analytical Reports
Attachment V – NMOCD Form C-141 Remediation and Closure Pages

HUNGRY HORSE, LLC

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

Background:

The site is located in Unit Letter G (SW/NE), Section 1, Township 17 South, Range 36 East, approximately 5 miles south east 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.

There are two releases that occurred at the tank battery; latitude 32.867542 North, Longitude 103.304416 West. The initial NMOC Form C-141's indicated that the first release occurred on September 30, 2018 when approximately 13 bbls of produced water were released when the transfer pump failed to kick on causing the water tank to run over. A vacuum truck was dispatched to the site and recovered approximately 25 bbls of fluid, estimated at 13 bbls of produced water and 12 bbls to be rain water. The second release occurred on November 25, 2019 when 100 bbls of oil and 172 bbls of produced water were released due to a plugged dump valve on the free water knockout. Vacuum trucks recovered 100 bbls of oil and 130 bbls of produced water. Both releases were confined to containment and were remediated concurrently. Previously submitted pages of the NMOCD Form C-141 are available on the NMOCD Imaging System. The Remediation and Closure pages of the NMOCD Form C-141 are included as Attachment V.

NMOCD Site Classification:

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

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 and Remediation Activities:

From October 17 through 30, 2018, White Buffalo Environmental conducted an initial site assessment. During the initial site assessment, a series of hand augered soil bores were advanced within the release area in an effort to determine the vertical extent of soil impacts. In addition, hand augered soil bores 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 hand augered soil bores, 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 thirty-four (34) delineation soil samples, SP1 through SP28, and SW1 through SW6, were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples. However, laboratory analytical results indicated TPH concentrations above the NMOCD Closure Criteria in ten (10) of the submitted soil samples.

From August 8 through 12, 2019, Hungry Horse conducted additional sampling at the site. A series of hand augered soil bores were advanced within the release area and along the edges of the release area to determine the vertical and horizontal extents of soil impacts. Soil samples were collected and field screened utilizing a PID and La Motte chloride kit.

A total of eighteen (18) soil samples, SP1 through SP18 were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples. However, laboratory analytical results indicated TPH concentrations above the NMOCD Closure Criteria in all but four (4) of the submitted soil samples.

On August 13, 2019, remediation activities began. The release area was excavated to an approximate depth of one (1) foot bgs. Excavated soil was temporarily stockpiled on site, atop plastic, until transported to an NMOCD approved disposal facility.

On August 20 and 21, 2019, Hungry Horse collected thirty (30) excavation confirmation soil samples. The samples were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples. However, laboratory analytical results indicated TPH concentrations above the NMOCD Closure Criteria in ten (10) of the submitted soil samples.

The excavation had been backfilled, however, on November 25, 2019, a second release occurred at the site before Hungry Horse could resume excavation activities at the sample

locations indicated by laboratory analytical results as exhibiting elevated TPH concentrations.

On December 5, 2019, Etech Environmental conducted an initial site assessment of the second release. During the initial site assessment, a series of samples were collected within the release area in an effort to determine the vertical extent of soil impacts. In addition, samples were collected at the inferred edges of the affected area in an effort to determine the horizontal extent of soil impacts.

A total of nineteen (19) soil samples from twelve (12) sample locations, SP#1 through SP#5, NH-1, EH-1, EH-2B, SH-1B, SH-2B, WH-1B, and WH-2B, 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 with the exception of SP#3 @ 2', SP#4 @ 2', and SH-2B @ 2', which indicated GRO+DRO and/or TPH concentrations above the NMOCD Closure Criteria.

On January 6 and 7, 2020, Hungry Horse conducted additional sampling at the site. A series of hand augered soil bores were advanced within the release area and along the edges of the release area to determine the vertical and horizontal extents of soil impacts. Soil samples were collected and field screened utilizing a PID and La Motte chloride kit.

Twelve (12) soil samples from twelve (12) sample locations, SP1 through SP5, and SW1 through SW7, 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 with the exception of SP1 @ 2', SP2 @ 2', SP3 @ 2', and SP4 @ 2', which indicated GRO+DRO and/or TPH concentrations above the NMOCD Closure Criteria.

Beginning in January 2020, Grizzly Operating began deconstruction of the facility to allow for excavation activities. Deconstruction commenced on the east side of the facility and proceeded to the west side. When the facility had been removed, excavation activities commenced.

From mid-January through mid-February 2020, the area was excavated to a depth of approximately four and a half feet bgs. Excavation of the area proceeded from the east to the west with impacted soil temporarily stockpiled on site, atop plastic, until transported to an NMOCD approved disposal facility.

On January 29, 2020, one (1) composite sample was collected from the excavation floor. The sample, Bottom Composite, was sent to the lab for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria for the submitted sample.

On February 20, 2020, two (2) composite samples were collected from the excavation floor. The two samples, Top and E1, were sent to the lab for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria for the submitted samples.

On February 26, 2020, final composite closure samples were collected from the excavation floor and sidewalls. Sampling began at the eastern end of the excavation, the area that would be beneath the reconstructed facility. During preparation of this Closure Report it was discovered that not all of the confirmation closure samples had been submitted. Only eight of the composite closure samples that were collected, SW1 through SW6, Composite Mix 1 and Composite Mix 2, were sent to the lab for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria for each of the submitted samples. For unknown reasons the remaining composite samples collected were never sent to the lab.

Having received laboratory analytical results from submitted confirmation samples, and in preparation of facility reconstruction, the excavation was backfilled. The excavation was backfilled with non-impacted, like material, and brought back to at, or near, original relative position. Upon completion of backfill activities, facility reconstruction began.

On August 3, 2020, Hungry Horse personnel mobilized on site to collect additional closure samples, as most of the samples collected on February 26, 2020, expired before being sent to the lab. As the excavation had been backfilled and the facility rebuilt on the location, there were limitations in the collection of samples. The area under the rebuilt facility could not be sampled, however, as the rebuilt facility is smaller than it was previously, the area outside of the facility, but still within the area that was excavated, could be sampled. These samples were collected via hand auger with five sample points collected within a 500 sq. ft. area and composited. The composited samples were jarred and sent to the lab for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria for each of the submitted samples.

A 2018 Delineation Map, 2019 Delineation Map, and a Confirmation Sample Location Map are provided as Figure 4, Figure 5 and Figure 6, respectively. All field data that could be gathered is provided as Attachment III. A Summary of Soil Sample Laboratory Analytical Results is provided as Table 1 and Laboratory Analytical Reports are provided as Attachment IV.

The affected area measured approximately 223 ft. in length and 49 ft. to 64 ft. in width. During remediation activities approximately 2,133 cubic yards of impacted soil were hauled to an NMOCD-approved disposal facility.

Restoration, Reclamation, and Re-Vegetation:

The affected area was contoured to achieve erosion control and preserve surface water flow. Affected areas not on production areas will be reseeded with an approved seed mixture during the first favorable growing season following closure of the site.

Closure Request:

Remediation activities were conducted in accordance with applicable NMOCD Regulations. The affected area was excavated and soil transported to an NMOCD-approved disposal facility. Laboratory analytical results from 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 Energy provide copies of this *Final Closure Report* to the appropriate agencies and request closure be granted to the State L "A" Tr 1.2 Site.

Limitations:

Hungry Horse, LLC, has prepared this Site Assessment and Remediation Work Plan 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 Energy
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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
State L "A" Tr 1.2
GPS: 32.867542, -103.304416
Lea County

Legend:

- State L "A" Tr 1.2 Location

Drafted: lmn
Checked: dd
Date: 6/15/20

Hungry-Horse, LLC
Oil & Gas Services

Figure 2
OSE POD Locations Map
Grizzly Energy
State L "A" Tr 1.2
GPS: 32.867542, -103.304416
Lea County

Legend:

- State L "A" Tr 1.2 Location
- Active OSE Water Well
- Pending OSE Water Well
- Plugged OSE Water Well

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Date: 6/15/20

Hungry-Horse, LLC
Oil & Gas Services

Figure 3
USGS Well Locations Map
Grizzly Energy
State L "A" Tr 1.2
GPS: 32.867542, -103.304416
Lea County

Legend:
- State L "A" Tr 1.2 Location
- USGS Well Location

Drafted: lmn
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Date: 6/15/20

Hungry-Horse, LLC
Oil & Gas Services

Figure 4
2018 Delineation Map
Grizzly Energy
State L "A" Tr 1.2
GPS: 32.867542, -103.304416
Lea County

Legend:

SP1 Delineation Sample Location

Release Area

Area Excavated After Facility Deconstructed

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Oil & Gas Services

Figure 5
2019 Delineation Map
Grizzly Energy
State L "A" Tr 1.2
GPS: 32.867542, -103.304416
Lea County

Legend:

- SP1 — Delineation Sample Location
- Release Area
- Area Excavated After Facility Deconstructed

Drafted: lmn
Checked: dd
Date: 7/30/20

Hungry-Horse, LLC
Oil & Gas Services

Figure 6

Confirmation Sample Location Map

Grizzly Energy

State L "A" Tr 1.2

GPS: 32.867542, -103.304416

Lea County

Legend:

SP1 Composite Sample Location

Excavated Area

Drafted: lmn

Checked: dd

Date: 8/3/20

Hungry-Horse, LLC

Oil & Gas Services

Tables

TABLE 1
Summary of Soil Sample Laboratory Analytical Results
Grizzly Energy
State L "A" Tr 1.2
NMOCD Ref. #: nCH1828533458; NCE2002946094

Sample ID	Date	Depth (ft)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C_6-C_{10} (mg/kg)	DRO C_{10}-C_{28} (mg/kg)	GRO + DRO C_6-C_{28} (mg/kg)	ORO C_{28}-C_{36} (mg/kg)	TPH C_6-C_{36} (mg/kg)	Chloride (mg/kg)
SP1	10/17/18	1	Excavated	<0.050	<0.300	<10.0	13.3	13.3	<10.0	13.3	176
SP2	10/30/18	1	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	848
SP3	10/30/18	1	Excavated	<0.050	<0.300	<50.0	706	706	303	1,009	544
SP4	10/17/18	1	Excavated	<0.050	<0.300	<10.0	17.4	17.4	14	31.4	352
SP5	10/17/18	1	Excavated	<0.050	<0.300	<10.0	236	236	140	376	64
SP6	10/30/18	2	Excavated	<0.050	<0.300	<50.0	4,600	**4,600**	978	**5,578**	96
SP7	10/26/18	2	Excavated	<0.025	0.213	136	5,880	**6,016**	1,270	**7,286**	128
SP8	10/29/18	2	Excavated	<0.025	1.49	139	2,600	**2,739**	519	**3,258**	304
SP9	10/30/18	2	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16
SP10	10/30/18	2	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
SP11	10/30/18	2	Excavated	<0.050	<0.300	<10.0	47.3	47.3	<10.0	47.3	240
SP12	10/26/18	2	Excavated	<0.050	<0.300	<10.0	62	62	34.2	96.2	80
SP13	10/26/18	2	Excavated	<0.050	<0.300	14.6	222	236.6	43.1	279.7	336
SP14	10/25/18	4	Excavated	<0.050	<0.300	30	1,790	**1,820**	358	2,178	256
SP15	10/25/18	4	Excavated	<0.050	<0.300	<10.0	161	161	47	208	592
SP16	10/25/18	4	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	432
SP17	10/26/18	3	Excavated	<0.050	<0.300	<10.0	88.1	88.1	30.9	119	240
SP18	10/23/18	3	Excavated	<0.050	<0.300	10.3	872	882.3	254	1,136.3	352
SP19	10/26/18	3	Excavated	0.364	10.1	1,550	11,000	**12,550**	1,630	**14,180**	944
SP20	10/23/18	3	Excavated	<0.050	<0.300	<10.0	176	176	46.6	222.6	448
SP21	10/17/18	1	Excavated	<0.050	<0.300	<10.0	330	330	292	622	32
SP22	10/17/18	1	Excavated	<0.050	<0.300	<10.0	101	101	81.5	182.5	64
SP23	10/17/18	1	Excavated	<0.050	<0.300	<10.0	108	108	78.2	186.2	80
SP24	10/29/18	2	Excavated	<0.050	<0.300	26.8	1,460	**1,486.8**	463	1,949.8	368
SP25	10/29/18	1	Excavated	<0.050	<0.300	<10.0	1,510	**1,510**	1,110	**2,620**	128
SP26	10/29/18	2	Excavated	<0.100	19.1	543	5,200	**5,743**	656	**6,399**	304
SP27	10/29/18	3	Excavated	<0.050	<0.030	<10.0	43.4	43.4	24.4	67.8	96
SP28	10/26/18	1	Excavated	<0.025	0.172	26.8	1,430	**1,456.8**	438	1,894.8	352
SW1	10/29/18	1	Excavated	<0.050	<0.300	<10.0	29	29	19.2	48.2	1,470
SW2	10/29/18	Surf	Excavated	<0.050	<0.300	<10.0	4,160	**4,160**	714	**4,874**	320
SW3	10/29/18	1	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
SW4	10/29/18	1	Excavated	<0.050	<0.300	<10.0	34.7	34.7	<10.0	34.7	320
SW5	10/29/18	1	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,330
SW6	10/29/18	1	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
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

TABLE 1
Summary of Soil Sample Laboratory Analytical Results
Grizzly Energy
State L "A" Tr 1.2
NMOCD Ref. #: nCH1828533458; NCE2002946094

Sample ID	Date	Depth (ft)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C_6-C_{10} (mg/kg)	DRO C_{10}-C_{28} (mg/kg)	GRO + DRO C_6-C_{28} (mg/kg)	ORO C_{28}-C_{36} (mg/kg)	TPH C_6-C_{36} (mg/kg)	Chloride (mg/kg)
SP1	8/12/19	2	Excavated	<0.050	<0.300	<100	4,640	**4,640**	1,770	**6,410**	496
SP2	8/12/19	2	Excavated	<0.050	<0.300	<50.0	2,060	**2,060**	1,010	**3,070**	1,440
SP3	8/12/19	2	Excavated	<0.050	<0.300	<50.0	4,390	**4,390**	1,690	**6,080**	1,420
SP4	8/12/19	2	Excavated	<0.050	<0.300	139	6,230	**6,369**	1,940	**8,309**	1,170
SP5	8/12/19	1	Excavated	<0.050	1.63	72.7	9,660	**9,733**	3,770	**13,503**	1,140
SP6	8/12/19	1	Excavated	<0.050	<0.300	<50.0	9,130	**9,130**	3,410	**12,540**	784
SP7	8/12/19	2	Excavated	<0.050	<0.300	<100	18,200	**18,200**	7,320	**25,520**	800
SP8	8/12/19	2	Excavated	<0.050	<0.300	<50.0	2,370	**2,370**	1,200	**3,570**	704
SP9	8/12/19	2	Excavated	<0.050	<0.300	<50.0	10,100	**10,100**	3,120	**13,220**	208
SP10	8/12/19	2	Excavated	<0.500	<0.300	<10.0	<10.0	<10.0	17	16.6	1,600
SP11	8/8/19	2	Excavated	<0.050	<0.300	<10.0	129	129	82	210.5	752
SP12	8/8/19	2	Excavated	<0.050	<0.300	199	5,340	**5,539**	1,320	**6,859**	16
SP13	8/8/19	2	Excavated	<0.050	<0.300	<50.0	142	142	186	328	48
SP14	8/8/19	1	Excavated	<0.050	<0.300	<50.0	1,080	**1,080**	568	1,648	304
SP15	8/8/19	1	Excavated	<0.050	<0.300	<10.0	1,160	**1,160**	551	1,711	64
SP16	8/8/19	1	Excavated	<0.050	<0.300	<50.0	356	356	236	592	144
SP17	8/8/19	1	Excavated	<0.050	<0.300	<100	12,600	**12,600**	4,680	**17,280**	144
SP18	8/8/19	1	Excavated	<0.050	<0.300	<50.0	2,990	**2,990**	1,260	**4,250**	112
SW-E	8/20/19	1	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,040
SW-W	8/20/19	1	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	768
SW-S	8/20/19	1	Excavated	<0.050	<0.300	<10.0	142	142	99	240.9	2,240
SW-N	8/20/19	1	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
Closure 1 - SP1	8/20/19	1	Excavated	<0.050	<0.300	<50.0	2,650	**2,650**	1,500	**4,150**	2,120
Closure 1 - SP2	8/20/19	1	Excavated	<0.050	<0.300	<10.0	1,260	**1,260**	597	1,857	976
Closure 1 - SP3	8/20/19	1	Excavated	<0.050	<0.300	<50.0	4,840	**4,840**	1,960	**6,800**	544
Closure 1 - SP4	8/20/19	1	Excavated	<0.050	<0.300	<10.0	1,180	**1,180**	404	1,584	464
Closure 1 - SP5	8/20/19	1	Excavated	<0.050	<0.300	<10.0	998	998	331	1,329	448
Comp 1	8/20/19	1	Excavated	<0.050	<0.300	<10.0	1,920	**1,920**	729	**2,649**	576
Closure 2 - SW1	8/21/19	1	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
Closure 2 - SW2	8/21/19	1	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16
Closure 2 - SW3	8/21/19	1	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16
Closure 2 - SW4	8/21/19	1	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16
Closure 2 - SP1	8/21/19	1	Excavated	<0.050	<0.300	<10.0	2,060	**2,060**	1,200	**3,260**	1,760
Closure 2 - SP2	8/21/19	1	Excavated	<0.050	<0.300	<10.0	2,350	**2,350**	1,390	**3,740**	1,870
Closure 2 - SP3	8/21/19	1	Excavated	<0.050	<0.300	<10.0	1,430	**1,430**	701	2,131	640
Closure 2 - SP4	8/21/19	1	Excavated	<0.050	<0.300	<10.0	1,190	**1,190**	600	1,790	560
Closure 2 - SP5	8/21/19	1	Excavated	<0.050	<0.300	<50.0	935	935	399	1,334	1,020
Comp 2	8/21/19	1	Excavated	<0.050	<0.300	<10.0	1,460	**1,460**	869	2,329	848
Closure 3 - SW1	8/21/19	1	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16
Closure 3 - SW2	8/21/19	1	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
Closure 3 - SW3	8/21/19	1	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16
Closure 3 - SW4	8/21/19	1	Excavated	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16
Closure 3 - SP1	8/21/19	1	Excavated	<0.050	<0.300	<10.0	241	241	230	471	768
Closure 3 - SP2	8/21/19	1	Excavated	<0.050	<0.300	<10.0	244	244	230	474	848
Closure 3 - SP3	8/21/19	1	Excavated	<0.050	<0.300	<10.0	223	223	229	452	1,040
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

TABLE 1
Summary of Soil Sample Laboratory Analytical Results
Grizzly Energy
State L "A" Tr 1.2
NMOCD Ref. #: nCH1828533458; NCE2002946094

Sample ID	Date	Depth (ft)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C_6-C_{10} (mg/kg)	DRO C_{10}-C_{28} (mg/kg)	GRO + DRO C_6-C_{28} (mg/kg)	ORO C_{28}-C_{36} (mg/kg)	TPH C_6-C_{36} (mg/kg)	Chloride (mg/kg)
Closure 3 - SP4	8/21/19	1	Excavated	<0.050	<0.300	<10.0	382	382	350	732	784
Closure 3 - SP5	8/21/19	1	Excavated	<0.050	<0.300	<10.0	394	394	339	733	576
Comp 3	8/21/19	1	Excavated	<0.050	<0.300	<10.0	287	287	302	589	912
SP#1@2'	12/5/19	2	Excavated	<0.050	0.923	<10.0	227	227	175	402	1,840
SP#2@2'	12/5/19	2	Excavated	0.058	3.67	17.7	831	848.7	714	1,562.7	272
SP#3@2'	12/5/19	2	Excavated	**17.2**	**350**	4,810	27,100	**31,910**	5,730	**37,640**	848
SP#4@2'	12/5/19	2	Excavated	0.155	18.6	190	1,190	**1,380**	192	1,572	112
SP#5@2'	12/5/19	2	Excavated	<0.050	0.846	<10.0	65.6	65.6	29.4	95	64
NH-1	12/5/19	Surf	In-Situ	<0.050	1.57	<10.0	12.8	12.8	<10.0	12.8	16
NH-1	12/5/19	2	In-Situ	<0.050	3.64	22	22	44	<10.0	44	32
EH-1	12/5/19	Surf	In-Situ	<0.050	<0.300	<10.0	>10.0	<10.0	<10.0	<10.0	32
EH-1	12/5/19	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
EH-2B	12/5/19	Surf	In-Situ	<0.050	<0.300	<10.0	183	183	110	293	336
EH-2B	12/5/19	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16
SH-1B	12/5/19	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
SH-1B	12/5/19	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
SH-2B	12/5/19	Surf	Excavated	<0.050	<0.300	<10.0	315	315	198	513	240
SH-2B	12/5/19	2	Excavated	<0.050	<0.300	<10.0	1,040	**1,040**	625	1,665	160
WH-1B	12/5/19	Surf	In-Situ	<0.050	<0.300	<10.0	281	281	118	399	208
WH-1B	12/5/19	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
WH-2B	12/5/19	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16
WH-2B	12/5/19	2	In-Situ	<0.050	<0.300	>10.0	<10.0	<10.0	<10.0	<10.0	16
SP1	1/6/20	2	Excavated	0.0890	4.489	57.1	1,300	**1,357.1**	495	1,852.1	1,110
SP2	1/6/20	2	Excavated	2.93	**72.53**	351	9,030	**9,381**	3,440	**12,821**	195
SP3	1/6/20	2	Excavated	**64.3**	**601.3**	2,140	45,500	**47,640**	6,490	**54,130**	559
SP4	1/6/20	2	Excavated	0.0985	3.3725	49.3	2,070	**2,119.3**	646	**2,765.3**	751
SP5	1/6/20	2	Excavated	0.0695	0.266	ND	960	960	1,260	2,220	ND
SW1	1/7/20	2	Excavated	ND	ND	ND	52.8	52.8	71.6	124.4	43
SW2	1/7/20	2	Excavated	ND	ND	ND	48.7	48.7	61.8	110.5	42
SW3	1/7/20	2	Excavated	ND	ND	ND	256	256	295	551	ND
SW4	1/7/20	2	Excavated	ND	ND	ND	203	203	264	467	ND
SW5	1/7/20	2	Excavated	ND	ND	ND	328	328	290	618	ND
SW6	1/7/20	2	Excavated	ND	ND	ND	145	145	139	284	491
SW7	1/7/20	2	Excavated	ND	0.179	ND	327	327	127	454	20.4
Bottom Composite	1/29/20	4.5	In-Situ	ND	0.1688	ND	388	388	133	521	75.2
Top	2/20/20	4.5	In-Situ	ND	ND	ND	263	263	440	703	83.7
E1	2/20/20	4.5	In-Situ	ND	ND	ND	ND	ND	ND	ND	217
Composite Mix 1	2/26/20	4.5	In-Situ	ND	ND	ND	ND	ND	ND	ND	194
Composite Mix 2	2/26/20	4.5	In-Situ	ND	ND	ND	102	102	95.7	197.7	36.3
SW1	2/26/20	2	In-Situ	ND	ND	ND	ND	ND	ND	ND	112
SW2	2/26/20	2	In-Situ	ND	ND	ND	ND	ND	ND	ND	112
SW3	2/26/20	2	In-Situ	ND	ND	ND	ND	ND	ND	ND	78.4
SW4	2/26/20	2	In-Situ	ND	ND	ND	ND	ND	ND	ND	141
SW5	2/26/20	2	In-Situ	ND	ND	ND	ND	ND	ND	ND	386
SW6	2/26/20	2	In-Situ	ND	ND	ND	ND	ND	ND	ND	50.3
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

TABLE 1
Summary of Soil Sample Laboratory Analytical Results
Grizzly Energy
State L "A" Tr 1.2
NMOCD Ref. #: nCH1828533458; NCE2002946094

Sample ID	Date	Depth (ft)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C_6-C_{10} (mg/kg)	DRO C_{10}-C_{28} (mg/kg)	GRO + DRO C_6-C_{28} (mg/kg)	ORO C_{28}-C_{36} (mg/kg)	TPH C_6-C_{36} (mg/kg)	Chloride (mg/kg)
FL1	8/3/20	4.5	In-Situ	ND	ND	ND	ND	ND	ND	ND	225
FL2	8/3/20	4.5	In-Situ	ND	ND	ND	ND	ND	ND	ND	258
FL3	8/3/20	4.5	In-Situ	ND	ND	ND	ND	ND	ND	ND	233
FL4	8/3/20	4.5	In-Situ	ND	ND	ND	ND	ND	ND	ND	266
FL5	8/3/20	4.5	In-Situ	ND	ND	ND	ND	ND	ND	ND	224
FL6	8/3/20	4.5	In-Situ	ND	ND	ND	ND	ND	ND	ND	225
FL7	8/3/20	4.5	In-Situ	ND	ND	ND	ND	ND	ND	ND	228
FL8	8/3/20	4.5	In-Situ	ND	ND	ND	ND	ND	ND	ND	230
FL9	8/3/20	4.5	In-Situ	ND	ND	ND	ND	ND	ND	ND	268
FL10	8/3/20	4.5	In-Situ	ND	ND	ND	ND	ND	ND	ND	258
FL11	8/3/20	4.5	In-Situ	ND	ND	ND	ND	ND	ND	ND	222
FL12	8/3/20	4.5	In-Situ	ND	ND	ND	ND	ND	ND	ND	251
FL13	8/3/20	4.5	In-Situ	ND	ND	ND	ND	ND	ND	ND	273
FL14	8/3/20	4.5	In-Situ	ND	ND	ND	ND	ND	ND	ND	240
FL15	8/3/20	4.5	In-Situ	ND	ND	ND	ND	ND	ND	ND	263
FL16	8/3/20	4.5	In-Situ	ND	ND	ND	ND	ND	ND	ND	220
FL17	8/3/20	4.5	In-Situ	ND	ND	ND	ND	ND	ND	ND	277
FL18	8/3/20	4.5	In-Situ	ND	ND	ND	ND	ND	ND	ND	275
FL19	8/3/20	4.5	In-Situ	ND	ND	ND	ND	ND	ND	ND	269
FL20	8/3/20	4.5	In-Situ	ND	ND	ND	ND	ND	ND	ND	209
FL21	8/3/20	4.5	In-Situ	ND	ND	ND	ND	ND	ND	ND	233
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** East **Description:** September 2018 release area	

Photo 2 **Direction** East **Description:** September 2018 release area	

Photographs

Photo 3 **Direction** West **Description:** September 2018 release area	

Photo 4 **Direction** West **Description:** September 2018 release area	

Photographs

Photo 5 **Direction** West **Description:** Excavation of 2018 release area	

Photo 6 **Direction** Southeast **Description:** Excavation of 2018 release area	

Photographs

Photo 7 **Direction** West **Description:** Backfilled	

Photo 8 **Direction** East **Description:** Backfilled	

Photographs

Photo 9 **Direction** North **Description:** 2019 Release area and lease sign	

Photo 10 **Direction** South **Description:** 2019 Release area	

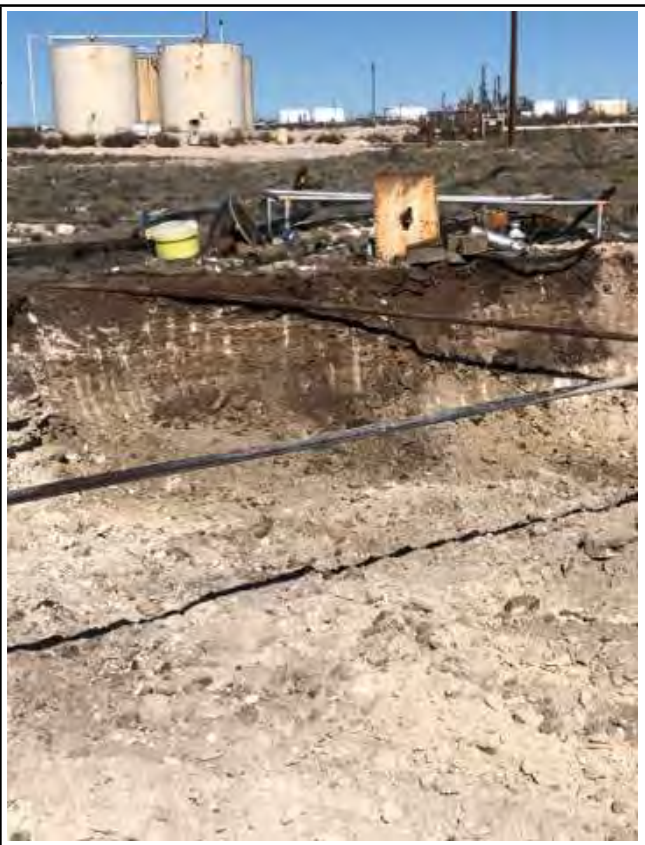
Photographs

Photo 11 **Direction** Northeast **Description:** 2019 Release area and sampling	

Photo 12 **Direction** Northeast **Description:** 2019 Release area	

Photographs

Photo 13 **Direction** West **Description:** Excavation activities after facility deconstruction	

Photo 14 **Direction** North **Description:** Excavation activities after facility deconstruction	

Photographs

Photo 15	
Direction East	
Description: Excavation activities after facility deconstruction	

Photo 16	
Direction West	
Description: Excavation activities after facility deconstruction	

Photographs

Photo 17 **Direction** Northwest **Description:** Backfilling	

Photo 18 **Direction** Northeast **Description:** Backfilling	

Photographs

Photo 19 **Direction** East **Description:** Backfill complete	

Photo 20 **Direction** East **Description:** Backfill complete and facility rebuilt	

Attachment II
Depth to Groundwater Information

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(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	Q 64	Q 16	Q 4	Sec	Twn	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 04988		L	LE		1	2	01	17S	36E	658510	3638089*	236	195	55	140
L 14207 POD1		L	LE	3	3	2	01	17S	36E	658500	3637679	252	240	100	140
L 12562 POD11		L	LE	2	4	2	01	17S	36E	658989	3637831	356	112	97	15
L 12562 POD4		L	LE	4	4	2	36	16S	36E	658584	3638296	409	121	106	15
L 14207 POD2		L	LE	2	4	1	01	17S	36E	658222	3637712	452	230	101	129
L 02508		L	LE	2	2	2	01	17S	36E	659013	3638194*	482	120	40	80
L 01371		L	LE	4	3	4	36	16S	36E	658603	3638389*	499	115	45	70
L 01584 POD1		L	LE		2	1	01	17S	36E	658107	3638083*	564	110	48	62
L 01438		L	LE		3	4	36	16S	36E	658504	3638490*	614	110	45	65
L 10633	R	L	LE			4	13	17S	36E	659026	3637389*	634	209	80	129
L 04988 S		L	LE	3	2	1	01	17S	36E	658006	3637982*	638	182	55	127
L 02561		L	LE	3	3	3	31	16S	37E	659210	3638403*	767	137	50	87
L 10633 S	R	L	LE			4	13	17S	36E	659026	3637189*	801	228	120	108
L 05486		L	LE	2	3	1	01	17S	36E	657808	3637773*	838	225	62	163
L 14263 POD3		L	LE	4	4	4	01	17S	36E	658914	3638715	870	225		

Average Depth to Water: **71 feet**

Minimum Depth: **40 feet**

Maximum Depth: **120 feet**

Record Count: 15

UTMNAD83 Radius Search (in meters):

Easting (X): 658638 **Northing (Y):** 3637890.66 **Radius:** 880

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

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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

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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 14207 POD1	3	3	2	01	17S	36E	658500	3637679

Driller License:	1456	**Driller Company:**	WHITE DRILLING COMPANY		
Driller Name:	WHITE, JOHN W				
Drill Start Date:	10/07/2016	**Drill Finish Date:**	10/12/2016	**Plug Date:**	
Log File Date:	12/12/2016	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	4.00	**Depth Well:**	240 feet	**Depth Water:**	100 feet

Water Bearing Stratifications:	Top	Bottom	Description
	60	110	Sandstone/Gravel/Conglomerate
	110	112	Sandstone/Gravel/Conglomerate
	112	117	Sandstone/Gravel/Conglomerate
	140	170	Sandstone/Gravel/Conglomerate
	170	190	Sandstone/Gravel/Conglomerate
	190	200	Sandstone/Gravel/Conglomerate
	200	216	Sandstone/Gravel/Conglomerate
	216	218	Sandstone/Gravel/Conglomerate
	218	226	Sandstone/Gravel/Conglomerate
	226	240	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	90	230

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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 12562 POD11	2	4	2	01	17S	36E	658989	3637831

Driller License:	1210	**Driller Company:**	CASCADE DRILLING, LP		
Driller Name:	BRYAN NYDOSKE				
Drill Start Date:	05/20/2010	**Drill Finish Date:**	05/20/2010	**Plug Date:**	
Log File Date:	06/08/2010	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	2.00	**Depth Well:**	112 feet	**Depth Water:**	97 feet

Water Bearing Stratifications:	Top	Bottom	Description
	0	7	Other/Unknown
	7	112	Sandstone/Gravel/Conglomerate

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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 12562 POD4	4	4	2	36	16S	36E	658584	3638296

Driller License:	1210	**Driller Company:**	CASCADE DRILLING, LP		
Driller Name:	BRYAN NYDOSKE				
Drill Start Date:	05/24/2010	**Drill Finish Date:**	05/24/2010	**Plug Date:**	
Log File Date:	06/08/2010	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	2.00	**Depth Well:**	121 feet	**Depth Water:**	106 feet

Water Bearing Stratifications:	Top	Bottom	Description
	0	5	Other/Unknown
	5	111	Sandstone/Gravel/Conglomerate

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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 14207 POD2	2	4	1	01	17S	36E	658222	3637712

Driller License:	1456	**Driller Company:**	WHITE DRILLING COMPANY		
Driller Name:	WHITE, JOHN W				
Drill Start Date:	10/05/2016	**Drill Finish Date:**	10/12/2016	**Plug Date:**	
Log File Date:	12/12/2016	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	4.00	**Depth Well:**	230 feet	**Depth Water:**	101 feet

Water Bearing Stratifications:	Top	Bottom	Description
	88	110	Sandstone/Gravel/Conglomerate
	110	112	Sandstone/Gravel/Conglomerate
	112	120	Sandstone/Gravel/Conglomerate
	120	130	Sandstone/Gravel/Conglomerate
	130	150	Sandstone/Gravel/Conglomerate
	150	190	Sandstone/Gravel/Conglomerate
	190	215	Sandstone/Gravel/Conglomerate
	215	216	Sandstone/Gravel/Conglomerate
	216	218	Sandstone/Gravel/Conglomerate
	218	223	Sandstone/Gravel/Conglomerate
	223	230	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	90	220

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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**

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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 01371	4	3	4	36	16S	36E	658603	3638389*

Driller License:	46	**Driller Company:**	ABBOTT BROTHERS COMPANY		
Driller Name:	ABBOTT, CLYDE				
Drill Start Date:	02/22/1952	**Drill Finish Date:**	02/23/1952	**Plug Date:**	08/31/1953
Log File Date:	02/25/1952	**PCW Rcv Date:**	11/19/1953	**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:		**Depth Well:**	115 feet	**Depth Water:**	45 feet

Water Bearing Stratifications:	Top	Bottom	Description
	45	115	Sandstone/Gravel/Conglomerate

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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 01584 POD1	2	1		01	17S	36E	658107	3638083*

Driller License:	111	**Driller Company:**	BURKE, EDWARD B.		
Driller Name:	BURKE, EDWARD B.				
Drill Start Date:	09/29/1952	**Drill Finish Date:**	09/29/1952	**Plug Date:**	
Log File Date:	10/07/1952	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	7.00	**Depth Well:**	110 feet	**Depth Water:**	48 feet

Water Bearing Stratifications:	Top	Bottom	Description
	53	110	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	87	109

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

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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 01438	3	4		36	16S	36E	658504	3638490*

Driller License:	46	**Driller Company:**	ABBOTT BROTHERS COMPANY		
Driller Name:					
Drill Start Date:	05/05/1952	**Drill Finish Date:**	05/06/1952	**Plug Date:**	04/30/1954
Log File Date:	05/20/1952	**PCW Rcv Date:**	06/09/1958	**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:		**Depth Well:**	110 feet	**Depth Water:**	45 feet

Water Bearing Stratifications:	Top	Bottom	Description
	44	110	Sandstone/Gravel/Conglomerate

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

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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 10633			4	13	17S	36E	659026	3637389*

Driller License:	586	**Driller Company:**	MARSH, KENNETH RAY		
Driller Name:	KEN MARSH				
Drill Start Date:	04/17/2001	**Drill Finish Date:**	04/19/2001	**Plug Date:**	
Log File Date:	07/16/2001	**PCW Rcv Date:**	11/07/2003	**Source:**	Shallow
Pump Type:	SUBMER	**Pipe Discharge Size:**	6	**Estimated Yield:**	800 GPM
Casing Size:	12.75	**Depth Well:**	209 feet	**Depth Water:**	80 feet

Water Bearing Stratifications:	Top	Bottom	Description
	80	160	Shallow Alluvium/Basin Fill
	172	201	Shallow Alluvium/Basin Fill
	201	204	Shallow Alluvium/Basin Fill

Casing Perforations:	Top	Bottom
	89	209

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

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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 S	3	2	1	01	17S	36E	658006	3637982*

Driller License:	46	**Driller Company:**	ABBOTT BROTHERS COMPANY		
Driller Name:					
Drill Start Date:	01/30/1963	**Drill Finish Date:**	02/02/1963	**Plug Date:**	
Log File Date:	03/04/1963	**PCW Rcv Date:**	08/14/1963	**Source:**	Shallow
Pump Type:	TURBIN	**Pipe Discharge Size:**	5	**Estimated Yield:**	188 GPM
Casing Size:	9.63	**Depth Well:**	182 feet	**Depth Water:**	55 feet

Water Bearing Stratifications:	Top	Bottom	Description
	55	178	Other/Unknown

Casing Perforations:	Top	Bottom
	55	178

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

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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 02561	3	3	3	31	16S	37E	659210	3638403*

Driller License:	46	**Driller Company:**	ABBOTT BROTHERS COMPANY		
Driller Name:					
Drill Start Date:	03/02/1954	**Drill Finish Date:**	03/03/1954	**Plug Date:**	
Log File Date:	03/30/1954	**PCW Rcv Date:**	08/15/1955	**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	7.00	**Depth Well:**	137 feet	**Depth Water:**	50 feet

Water Bearing Stratifications:	Top	Bottom	Description
	45	75	Sandstone/Gravel/Conglomerate
	95	137	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	50	137

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

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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 10633 S			4	13	17S	36E	659026	3637189*

Driller License:	586	**Driller Company:**	MARSH, KENNETH RAY		
Driller Name:	KEN MARSH				
Drill Start Date:	04/20/2001	**Drill Finish Date:**	04/25/2001	**Plug Date:**	
Log File Date:	07/16/2001	**PCW Rcv Date:**	11/07/2003	**Source:**	Shallow
Pump Type:	SUBMER	**Pipe Discharge Size:**	6	**Estimated Yield:**	800 GPM
Casing Size:	12.75	**Depth Well:**	228 feet	**Depth Water:**	120 feet

Water Bearing Stratifications:	Top	Bottom	Description
	18	159	Shallow Alluvium/Basin Fill
	182	226	Shallow Alluvium/Basin Fill

Casing Perforations:	Top	Bottom
	135	228

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

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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 05486	2	3	1	01	17S	36E	657808	3637773*

Driller License:	322	**Driller Company:**	BACKUS, GRADY		
Driller Name:	GRADY BACKUS				
Drill Start Date:	05/28/1973	**Drill Finish Date:**	06/04/1973	**Plug Date:**	
Log File Date:	07/18/1973	**PCW Rcv Date:**	03/27/1975	**Source:**	Shallow
Pump Type:	TURBIN	**Pipe Discharge Size:**	6	**Estimated Yield:**	400 GPM
Casing Size:	12.75	**Depth Well:**	225 feet	**Depth Water:**	62 feet

Water Bearing Stratifications:	Top	Bottom	Description
	62	72	Sandstone/Gravel/Conglomerate
	86	98	Sandstone/Gravel/Conglomerate
	114	128	Sandstone/Gravel/Conglomerate
	138	158	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	170	220

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

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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 14263 POD3	4	4	4	01	17S	36E	658914	3638715

Driller License:	1731	**Driller Company:**	HARRISON & COOPER, INC (WD-1731)		
Driller Name:	COOPER, KENNY				
Drill Start Date:	06/08/2016	**Drill Finish Date:**	06/08/2016	**Plug Date:**	
Log File Date:	04/10/2017	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	4.00	**Depth Well:**	225 feet	**Depth Water:**	

Casing Perforations:	Top	Bottom
	95	225

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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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.

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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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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.

Accessibility Plug-Ins FOIA Privacy Policies and Notices
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 16:51:21 EDT
0.3 0.28 nadww01

Attachment III
Field Data

field data

State L.A

10/17/18

Sp1 - surf 612
1' 82

Sp2 surf 612
1' 392

Sp3 Surf 924
1' 392

Sp4 surf < 30
1' 274

Sp5 surf < 30
1' - < 30

Sp6 - surf < 30
1' 196
2' < 30

Sp7 · sur < 30
1' 60
2' 82

Sp8 sur < 30
1' 494
2' 148

Sp9 Sur < 30
1' - 160
2' 80

Sp10 Sur < 30
1' 80
2' 80

Sp11 sur < 30
1' 320
2' 240

Sp12 sur 330
1' ~~330~~ < 30
2' < 30

Sp13 sur 752
1' 274
2' 392

Sp14 sur 148
1' 274
2' 132
3 < 30

Sp15 sur 424
1' 274
2' 424
3 532
4 424 lab

Sp16 sur 1064
1' < 30
2' 172
3' 274
4' 274 lab

Sp 17 surf <30
1' 196
2' 102
3 124

Sp 18 sur <30
1' 124
2' 220
3' 196

Sp 19 sur <30
1' 458
2' 274
3 707

Sp 20 sur 424
1' 532
2' wet
3 274
4' 800

Sp 21 sur <30
1' <30
Sp 22 Sur <30
1' <30

Sp 23 sur <30
1' <30
Sp 24 sur <30
1' 82
2' 246 dark
Sp 25 sur <30
1' <30
2' <30
Sp 26 sur <30
1' 60
2' 196
Sp 27 sur <30
1' <30
2' <30
3' <30
@ Sp 28 Sur <30
1' 102

SW 1 sur <30
1' 990 dark

SW 2 102 lm
1' 103

SW 3 sur <30
1' 194

SW4- surf <30

1' 196

SW5- sur <30

1' 862

SW6 sur <30

1' <36

Grizzly State LA 1/28/80 15

Composite

North West Corner	12 X 20 = 240
North wall	40 X 20 = 800
Bottom gray	4 X 20 = 80
South Wall	28 X 20 = 560
West Wall	12 X 20 = 240

Attachment IV
Laboratory Analytical Reports

CARDINAL Laboratories

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

October 30, 2018

NATALIE GLADDEN

WHITE BUFFALO

8908 YALE AVE #210

TULSA, OK 74137

RE: STATE L 'A' BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/24/18 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	10/24/2018	Sampling Date:	10/17/2018
Reported:	10/30/2018	Sampling Type:	Soil
Project Name:	STATE L 'A' BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 - 1 (H803053-01)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2018	ND	1.92	96.0	2.00	3.62	
Toluene*	<0.050	0.050	10/25/2018	ND	1.87	93.7	2.00	5.32	
Ethylbenzene*	<0.050	0.050	10/25/2018	ND	1.93	96.3	2.00	4.63	
Total Xylenes*	<0.150	0.150	10/25/2018	ND	5.53	92.1	6.00	3.87	
Total BTEX	<0.300	0.300	10/25/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.4 %* *69.8-142*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**176**	16.0	10/25/2018	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2018	ND	196	97.8	200	2.78	
DRO >C10-C28*	**13.3**	10.0	10/26/2018	ND	205	102	200	3.45	
EXT DRO >C28-C36	<10.0	10.0	10/26/2018	ND					

Surrogate: 1-Chlorooctane *94.8 %* *41-142*

Surrogate: 1-Chlorooctadecane *91.1 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	10/24/2018	Sampling Date:	10/17/2018
Reported:	10/30/2018	Sampling Type:	Soil
Project Name:	STATE L 'A' BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 4 - 1 (H803053-02)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2018	ND	1.92	96.0	2.00	3.62	
Toluene*	<0.050	0.050	10/25/2018	ND	1.87	93.7	2.00	5.32	
Ethylbenzene*	<0.050	0.050	10/25/2018	ND	1.93	96.3	2.00	4.63	
Total Xylenes*	<0.150	0.150	10/25/2018	ND	5.53	92.1	6.00	3.87	
Total BTEX	<0.300	0.300	10/25/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.5 %* *69.8-142*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**352**	16.0	10/25/2018	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2018	ND	196	97.8	200	2.78	
DRO >C10-C28*	**17.4**	10.0	10/26/2018	ND	205	102	200	3.45	
EXT DRO >C28-C36	**14.0**	10.0	10/26/2018	ND					

Surrogate: 1-Chlorooctane *91.6 %* *41-142*

Surrogate: 1-Chlorooctadecane *87.5 %* *37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	10/24/2018	Sampling Date:	10/17/2018
Reported:	10/30/2018	Sampling Type:	Soil
Project Name:	STATE L 'A' BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 5 - 1 (H803053-03)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2018	ND	1.92	96.0	2.00	3.62	
Toluene*	<0.050	0.050	10/25/2018	ND	1.87	93.7	2.00	5.32	
Ethylbenzene*	<0.050	0.050	10/25/2018	ND	1.93	96.3	2.00	4.63	
Total Xylenes*	<0.150	0.150	10/25/2018	ND	5.53	92.1	6.00	3.87	
Total BTEX	<0.300	0.300	10/25/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *93.1 %* *69.8-142*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	10/25/2018	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2018	ND	196	97.8	200	2.78	
DRO >C10-C28*	**236**	10.0	10/26/2018	ND	205	102	200	3.45	
EXT DRO >C28-C36	**140**	10.0	10/26/2018	ND					

Surrogate: 1-Chlorooctane *94.6 %* *41-142*

Surrogate: 1-Chlorooctadecane *96.7 %* *37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	10/24/2018	Sampling Date:	10/19/2018
Reported:	10/30/2018	Sampling Type:	Soil
Project Name:	STATE L 'A' BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 21 - 1 (H803053-04)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2018	ND	1.92	96.0	2.00	3.62	
Toluene*	<0.050	0.050	10/25/2018	ND	1.87	93.7	2.00	5.32	
Ethylbenzene*	<0.050	0.050	10/25/2018	ND	1.93	96.3	2.00	4.63	
Total Xylenes*	<0.150	0.150	10/25/2018	ND	5.53	92.1	6.00	3.87	
Total BTEX	<0.300	0.300	10/25/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *95.1 %* *69.8-142*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	10/25/2018	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2018	ND	196	97.8	200	2.78	
DRO >C10-C28*	**330**	10.0	10/26/2018	ND	205	102	200	3.45	
EXT DRO >C28-C36	**292**	10.0	10/26/2018	ND					

Surrogate: 1-Chlorooctane *94.8 %* *41-142*

Surrogate: 1-Chlorooctadecane *93.8 %* *37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	10/24/2018	Sampling Date:	10/19/2018
Reported:	10/30/2018	Sampling Type:	Soil
Project Name:	STATE L 'A' BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 22 - 1 (H803053-05)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2018	ND	1.92	96.0	2.00	3.62	
Toluene*	<0.050	0.050	10/25/2018	ND	1.87	93.7	2.00	5.32	
Ethylbenzene*	<0.050	0.050	10/25/2018	ND	1.93	96.3	2.00	4.63	
Total Xylenes*	<0.150	0.150	10/25/2018	ND	5.53	92.1	6.00	3.87	
Total BTEX	<0.300	0.300	10/25/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.9 %* *69.8-142*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	10/25/2018	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2018	ND	196	97.8	200	2.78	
DRO >C10-C28*	**101**	10.0	10/26/2018	ND	205	102	200	3.45	
EXT DRO >C28-C36	**81.5**	10.0	10/26/2018	ND					

Surrogate: 1-Chlorooctane *88.8 %* *41-142*

Surrogate: 1-Chlorooctadecane *84.3 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	10/24/2018	Sampling Date:	10/19/2018
Reported:	10/30/2018	Sampling Type:	Soil
Project Name:	STATE L 'A' BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 23 - 1 (H803053-06)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2018	ND	1.92	96.0	2.00	3.62	
Toluene*	<0.050	0.050	10/25/2018	ND	1.87	93.7	2.00	5.32	
Ethylbenzene*	<0.050	0.050	10/25/2018	ND	1.93	96.3	2.00	4.63	
Total Xylenes*	<0.150	0.150	10/25/2018	ND	5.53	92.1	6.00	3.87	
Total BTEX	<0.300	0.300	10/25/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.7 %* *69.8-142*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	10/25/2018	ND	400	100	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/26/2018	ND	196	97.8	200	2.78	
DRO >C10-C28*	**108**	10.0	10/26/2018	ND	205	102	200	3.45	
EXT DRO >C28-C36	**78.2**	10.0	10/26/2018	ND					

Surrogate: 1-Chlorooctane *91.6 %* *41-142*

Surrogate: 1-Chlorooctadecane *90.1 %* *37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Page 67 of 287

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Vanguard	**BILL TO**
Project Manager: Brent White	P.O. #:
Address:	Company: White Buffalo
City: State: Zip:	Attn: Steve McFarlin
Phone #: Fax #:	Address: 8908 Yale Ave #210
Project #: Project Owner:	City: Tulsa
Project Name:	State: OK Zip: 74137
Project Location: State L 'A' Battery	Phone #: 918-660-0999
Sampler Name:	Fax #:

FOR LAB USE ONLY				MATRIX							PRESERV.			SAMPLING		ANALYSIS REQUEST											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chloride	BTEX	TPH										
H803053																											
1	SP 1 - 1		1			X					X		10-17-18	11:40	X	X	X										
2	SP 4 - 1		1			X					X		10-17-18	1:37	X	X	X										
3	SP 5 - 1		1			X					X		10-17-18	1:45	X	X	X										
4	SP 21 - 1		1			X					X		10-19-18	12:30	X	X	X										
5	SP 22 - 1		1			X					X		10-19-18	12:40	X	X	X										
6	SP 23 - 1		1			X					X		10-19-18	12:50	X	X	X										

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Relinquished By:	Date: 10-24-18	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 14:15		Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: Email: Natalie.Gladden@whitebuffalo.com, Monique.Cueto@whitebuffalo.com
	Time:		

Delivered By: (Circle One)
Sampler - UPS - Bus - Other: -0.4°C #97

Sample Condition: Cool ☐ Yes ☐ No; Intact ☐ Yes ☐ No

CHECKED BY: (Initials) TO

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

Received by OCD: 9/14/2020 10:56:18 AM

CARDINAL Laboratories

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

November 05, 2018

NATALIE GLADDEN

WHITE BUFFALO

8908 YALE AVE #210

TULSA, OK 74137

RE: STATE L 'A' BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/30/18 15:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	10/30/2018	Sampling Date:	10/25/2018
Reported:	11/05/2018	Sampling Type:	Soil
Project Name:	STATE L 'A' BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 14 - 4' (H803100-01)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2018	ND	2.04	102	2.00	0.533	
Toluene*	**0.075**	0.050	11/01/2018	ND	1.87	93.6	2.00	0.393	
Ethylbenzene*	<0.050	0.050	11/01/2018	ND	1.78	88.9	2.00	0.535	
Total Xylenes*	<0.150	0.150	11/01/2018	ND	5.24	87.4	6.00	1.07	
Total BTEX	<0.300	0.300	11/01/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *133 %* *69.8-142*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**256**	16.0	11/01/2018	ND	416	104	400	3.92	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**30.0**	10.0	11/01/2018	ND	194	96.8	200	8.92	
DRO >C10-C28*	**1790**	10.0	11/01/2018	ND	205	102	200	3.34	
EXT DRO >C28-C36	**358**	10.0	11/01/2018	ND					

Surrogate: 1-Chlorooctane *104 %* *41-142*

Surrogate: 1-Chlorooctadecane *156 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	10/30/2018	Sampling Date:	10/25/2018
Reported:	11/05/2018	Sampling Type:	Soil
Project Name:	STATE L 'A' BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 15 - 4' (H803100-02)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2018	ND	2.04	102	2.00	0.533	
Toluene*	<0.050	0.050	11/01/2018	ND	1.87	93.6	2.00	0.393	
Ethylbenzene*	<0.050	0.050	11/01/2018	ND	1.78	88.9	2.00	0.535	
Total Xylenes*	<0.150	0.150	11/01/2018	ND	5.24	87.4	6.00	1.07	
Total BTEX	<0.300	0.300	11/01/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *69.8-142*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**592**	16.0	11/01/2018	ND	416	104	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2018	ND	194	96.8	200	8.92	
DRO >C10-C28*	**161**	10.0	10/31/2018	ND	205	102	200	3.34	
EXT DRO >C28-C36	**47.0**	10.0	10/31/2018	ND					

Surrogate: 1-Chlorooctane *104 %* *41-142*

Surrogate: 1-Chlorooctadecane *102 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	10/30/2018	Sampling Date:	10/25/2018
Reported:	11/05/2018	Sampling Type:	Soil
Project Name:	STATE L 'A' BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 16 - 4' (H803100-03)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2018	ND	2.04	102	2.00	0.533	
Toluene*	<0.050	0.050	11/01/2018	ND	1.87	93.6	2.00	0.393	
Ethylbenzene*	<0.050	0.050	11/01/2018	ND	1.78	88.9	2.00	0.535	
Total Xylenes*	<0.150	0.150	11/01/2018	ND	5.24	87.4	6.00	1.07	
Total BTEX	<0.300	0.300	11/01/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.1 %* *69.8-142*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**432**	16.0	11/01/2018	ND	416	104	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2018	ND	194	96.8	200	8.92	
DRO >C10-C28*	<10.0	10.0	10/31/2018	ND	205	102	200	3.34	
EXT DRO >C28-C36	<10.0	10.0	10/31/2018	ND					

Surrogate: 1-Chlorooctane *104 %* *41-142*

Surrogate: 1-Chlorooctadecane *93.7 %* *37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	10/30/2018	Sampling Date:	10/26/2018
Reported:	11/05/2018	Sampling Type:	Soil
Project Name:	STATE L 'A' BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 17 - 3' (H803100-04)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2018	ND	2.04	102	2.00	0.533	
Toluene*	<0.050	0.050	11/01/2018	ND	1.87	93.6	2.00	0.393	
Ethylbenzene*	<0.050	0.050	11/01/2018	ND	1.78	88.9	2.00	0.535	
Total Xylenes*	<0.150	0.150	11/01/2018	ND	5.24	87.4	6.00	1.07	
Total BTEX	<0.300	0.300	11/01/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.6 %* *69.8-142*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**240**	16.0	11/01/2018	ND	416	104	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2018	ND	194	96.8	200	8.92	
DRO >C10-C28*	**88.1**	10.0	10/31/2018	ND	205	102	200	3.34	
EXT DRO >C28-C36	**30.9**	10.0	10/31/2018	ND					

Surrogate: 1-Chlorooctane *103 %* *41-142*

Surrogate: 1-Chlorooctadecane *95.8 %* *37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	10/30/2018	Sampling Date:	10/23/2018
Reported:	11/05/2018	Sampling Type:	Soil
Project Name:	STATE L 'A' BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 18 - 3' (H803100-05)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2018	ND	2.04	102	2.00	0.533	
Toluene*	<0.050	0.050	11/01/2018	ND	1.87	93.6	2.00	0.393	
Ethylbenzene*	<0.050	0.050	11/01/2018	ND	1.78	88.9	2.00	0.535	
Total Xylenes*	<0.150	0.150	11/01/2018	ND	5.24	87.4	6.00	1.07	
Total BTEX	<0.300	0.300	11/01/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *120 %* *69.8-142*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**352**	16.0	11/01/2018	ND	416	104	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**10.3**	10.0	11/01/2018	ND	194	96.8	200	8.92	
DRO >C10-C28*	**872**	10.0	11/01/2018	ND	205	102	200	3.34	
EXT DRO >C28-C36	**254**	10.0	11/01/2018	ND					

Surrogate: 1-Chlorooctane *108 %* *41-142*

Surrogate: 1-Chlorooctadecane *119 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	10/30/2018	Sampling Date:	10/23/2018
Reported:	11/05/2018	Sampling Type:	Soil
Project Name:	STATE L 'A' BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 20 - 3' (H803100-06)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2018	ND	2.04	102	2.00	0.533	
Toluene*	<0.050	0.050	11/01/2018	ND	1.87	93.6	2.00	0.393	
Ethylbenzene*	<0.050	0.050	11/01/2018	ND	1.78	88.9	2.00	0.535	
Total Xylenes*	<0.150	0.150	11/01/2018	ND	5.24	87.4	6.00	1.07	
Total BTEX	<0.300	0.300	11/01/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.7 %* *69.8-142*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**448**	16.0	11/01/2018	ND	416	104	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2018	ND	194	96.8	200	8.92	
DRO >C10-C28*	**176**	10.0	10/31/2018	ND	205	102	200	3.34	
EXT DRO >C28-C36	**46.6**	10.0	10/31/2018	ND					

Surrogate: 1-Chlorooctane *110 %* *41-142*

Surrogate: 1-Chlorooctadecane *107 %* *37.6-147*

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Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	10/30/2018	Sampling Date:	10/29/2018
Reported:	11/05/2018	Sampling Type:	Soil
Project Name:	STATE L 'A' BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 25 - 1' (H803100-07)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2018	ND	2.04	102	2.00	0.533	
Toluene*	<0.050	0.050	11/01/2018	ND	1.87	93.6	2.00	0.393	
Ethylbenzene*	<0.050	0.050	11/01/2018	ND	1.78	88.9	2.00	0.535	
Total Xylenes*	<0.150	0.150	11/01/2018	ND	5.24	87.4	6.00	1.07	
Total BTEX	<0.300	0.300	11/01/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.5 %* *69.8-142*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**128**	16.0	11/01/2018	ND	416	104	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2018	ND	194	96.8	200	8.92	
DRO >C10-C28*	**1510**	10.0	11/01/2018	ND	205	102	200	3.34	
EXT DRO >C28-C36	**1110**	10.0	11/01/2018	ND					

Surrogate: 1-Chlorooctane *88.7 %* *41-142*

Surrogate: 1-Chlorooctadecane *116 %* *37.6-147*

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Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	10/30/2018	Sampling Date:	10/29/2018
Reported:	11/05/2018	Sampling Type:	Soil
Project Name:	STATE L 'A' BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SW 1 - 1' (H803100-08)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2018	ND	2.04	102	2.00	0.533	
Toluene*	<0.050	0.050	11/01/2018	ND	1.87	93.6	2.00	0.393	
Ethylbenzene*	<0.050	0.050	11/01/2018	ND	1.78	88.9	2.00	0.535	
Total Xylenes*	<0.150	0.150	11/01/2018	ND	5.24	87.4	6.00	1.07	
Total BTEX	<0.300	0.300	11/01/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *94.2 %* *69.8-142*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1470**	16.0	11/01/2018	ND	416	104	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2018	ND	194	96.8	200	8.92	
DRO >C10-C28*	**29.0**	10.0	10/31/2018	ND	205	102	200	3.34	
EXT DRO >C28-C36	**19.2**	10.0	10/31/2018	ND					

Surrogate: 1-Chlorooctane *99.9 %* *41-142*

Surrogate: 1-Chlorooctadecane *88.9 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	10/30/2018	Sampling Date:	10/29/2018
Reported:	11/05/2018	Sampling Type:	Soil
Project Name:	STATE L 'A' BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SW 2 - SURFACE (H803100-09)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2018	ND	2.12	106	2.00	0.582	
Toluene*	<0.050	0.050	11/01/2018	ND	1.95	97.7	2.00	0.222	
Ethylbenzene*	<0.050	0.050	11/01/2018	ND	1.86	93.2	2.00	0.180	
Total Xylenes*	<0.150	0.150	11/01/2018	ND	5.77	96.2	6.00	0.209	
Total BTEX	<0.300	0.300	11/01/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.1 %* *69.8-142*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**320**	16.0	11/01/2018	ND	416	104	400	3.92	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2018	ND	194	96.8	200	8.92	
DRO >C10-C28*	**4160**	10.0	11/01/2018	ND	205	102	200	3.34	
EXT DRO >C28-C36	**714**	10.0	11/01/2018	ND					

Surrogate: 1-Chlorooctane *104 %* *41-142*

Surrogate: 1-Chlorooctadecane *176 %* *37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	10/30/2018	Sampling Date:	10/29/2018
Reported:	11/05/2018	Sampling Type:	Soil
Project Name:	STATE L 'A' BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SW 3 - 1' (H803100-10)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2018	ND	2.12	106	2.00	0.582	
Toluene*	<0.050	0.050	11/01/2018	ND	1.95	97.7	2.00	0.222	
Ethylbenzene*	<0.050	0.050	11/01/2018	ND	1.86	93.2	2.00	0.180	
Total Xylenes*	<0.150	0.150	11/01/2018	ND	5.77	96.2	6.00	0.209	
Total BTEX	<0.300	0.300	11/01/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.4 %* *69.8-142*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	11/01/2018	ND	416	104	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2018	ND	194	96.8	200	8.92	
DRO >C10-C28*	<10.0	10.0	10/31/2018	ND	205	102	200	3.34	
EXT DRO >C28-C36	<10.0	10.0	10/31/2018	ND					

Surrogate: 1-Chlorooctane *107 %* *41-142*

Surrogate: 1-Chlorooctadecane *95.4 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	10/30/2018	Sampling Date:	10/29/2018
Reported:	11/05/2018	Sampling Type:	Soil
Project Name:	STATE L 'A' BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SW 4 - 1' (H803100-11)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2018	ND	2.12	106	2.00	0.582	
Toluene*	<0.050	0.050	11/01/2018	ND	1.95	97.7	2.00	0.222	
Ethylbenzene*	<0.050	0.050	11/01/2018	ND	1.86	93.2	2.00	0.180	
Total Xylenes*	<0.150	0.150	11/01/2018	ND	5.77	96.2	6.00	0.209	
Total BTEX	<0.300	0.300	11/01/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.0 %* *69.8-142*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**320**	16.0	11/01/2018	ND	416	104	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2018	ND	194	96.8	200	8.92	
DRO >C10-C28*	**34.7**	10.0	10/31/2018	ND	205	102	200	3.34	
EXT DRO >C28-C36	<10.0	10.0	10/31/2018	ND					

Surrogate: 1-Chlorooctane *93.3 %* *41-142*

Surrogate: 1-Chlorooctadecane *87.7 %* *37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	10/30/2018	Sampling Date:	10/29/2018
Reported:	11/05/2018	Sampling Type:	Soil
Project Name:	STATE L 'A' BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SW 5 - 1' (H803100-12)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2018	ND	2.12	106	2.00	0.582	
Toluene*	<0.050	0.050	11/01/2018	ND	1.95	97.7	2.00	0.222	
Ethylbenzene*	<0.050	0.050	11/01/2018	ND	1.86	93.2	2.00	0.180	
Total Xylenes*	<0.150	0.150	11/01/2018	ND	5.77	96.2	6.00	0.209	
Total BTEX	<0.300	0.300	11/01/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.7 %* *69.8-142*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1330**	16.0	11/01/2018	ND	416	104	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2018	ND	194	96.8	200	8.92	
DRO >C10-C28*	<10.0	10.0	10/31/2018	ND	205	102	200	3.34	
EXT DRO >C28-C36	<10.0	10.0	10/31/2018	ND					

Surrogate: 1-Chlorooctane *99.2 %* *41-142*

Surrogate: 1-Chlorooctadecane *89.5 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	10/30/2018	Sampling Date:	10/29/2018
Reported:	11/05/2018	Sampling Type:	Soil
Project Name:	STATE L 'A' BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SW 6 - 1' (H803100-13)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2018	ND	2.12	106	2.00	0.582	
Toluene*	<0.050	0.050	11/01/2018	ND	1.95	97.7	2.00	0.222	
Ethylbenzene*	<0.050	0.050	11/01/2018	ND	1.86	93.2	2.00	0.180	
Total Xylenes*	<0.150	0.150	11/01/2018	ND	5.77	96.2	6.00	0.209	
Total BTEX	<0.300	0.300	11/01/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.4 %* *69.8-142*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	11/01/2018	ND	416	104	400	3.92	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/31/2018	ND	194	96.8	200	8.92	
DRO >C10-C28*	<10.0	10.0	10/31/2018	ND	205	102	200	3.34	
EXT DRO >C28-C36	<10.0	10.0	10/31/2018	ND					

Surrogate: 1-Chlorooctane *97.4 %* *41-142*

Surrogate: 1-Chlorooctadecane *86.2 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	10/30/2018	Sampling Date:	10/29/2018
Reported:	11/05/2018	Sampling Type:	Soil
Project Name:	STATE L 'A' BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 27 - 3' (H803100-14)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/01/2018	ND	2.12	106	2.00	0.582	
Toluene*	<0.050	0.050	11/01/2018	ND	1.95	97.7	2.00	0.222	
Ethylbenzene*	<0.050	0.050	11/01/2018	ND	1.86	93.2	2.00	0.180	
Total Xylenes*	<0.150	0.150	11/01/2018	ND	5.77	96.2	6.00	0.209	
Total BTEX	<0.300	0.300	11/01/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.4 %* *69.8-142*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	11/01/2018	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2018	ND	196	98.2	200	1.45	
DRO >C10-C28*	**43.4**	10.0	11/01/2018	ND	210	105	200	0.833	
EXT DRO >C28-C36	**24.4**	10.0	11/01/2018	ND					

Surrogate: 1-Chlorooctane *90.7 %* *41-142*

Surrogate: 1-Chlorooctadecane *100 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Vanguard	BILL TO
Project Manager: Brent White	P.O. #:
Address: 4001 Penbrook St. Ste. 201	Company: White Buffalo
City: Odessa State: TX Zip: 79762	Attn: Steve McFarlin
Phone #: Fax #:	Address: 8908 Yale Ave #210
Project #: Project Owner:	City: Tulsa
Project Name: State L "A" Battery	State: OK Zip: 74137
Project Location:	Phone #: 918-660-0999
Sampler Name: Monique Cueto	Fax #:

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D. H803100	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	Chlorides	BTEX	TPH
1	SP14 - 4'	G				✓					✓		10/25/18	10:15	✓	✓	✓
2	SP15 - 4'	G				✓					✓		10/25/18	8:32	✓	✓	✓
3	SP16 - 4'	G				✓					✓		10/25/18	8:25	✓	✓	✓
4	SP17 - 3'	G				✓					✓		10/26/18	9:45	✓	✓	✓
5	SP18 - 3'	G				✓					✓		10/23/18	11:35	✓	✓	✓
6	SP20 - 3'	G				✓					✓		10/23/18	10:26	✓	✓	✓
7	SP25 - 1'	G				✓					✓		10/29/18	8:10	✓	✓	✓
~~#14~~	~~SP27 - 3'~~	~~G~~				~~✓~~					~~✓~~				~~✓~~	~~✓~~	~~✓~~
8	SW1 - 1'	G				✓					✓		10/29/18	9:10	✓	✓	✓
9	SW2 - Surf	G				✓					✓		10/29/18	9:45	✓	✓	✓

added sample Back in TO 10/31/18

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Relinquished By: M. Cueto	Date: 10-30-18 Time: 15:40	Received By: Tamara Oldaker	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 2.4°C #97	Sample Condition Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No	CHECKED BY: (Initials) TO.	REMARKS: Email: Natalie.Gladden@whitebuffalo.com Monique.Cueto@whitebuffalo.com

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

Received by OCD: 9/14/2020 10:56:18 AM

Page 85 of 287

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Vanguard	**BILL TO**	
Project Manager:	Brent White	P.O. #:	
Address:	4001 Penbrook St. Ste. 201	Company:	White Buffalo
City:	Odessa State: TX Zip: 79762	Attn:	Steve McFarlin
Phone #:	Fax #:	Address:	8908 Yale Ave #210
Project #:	Project Owner:	City:	Tulsa
Project Name:	State L "A" Battery	State:	OK Zip: 74137
Project Location:		Phone #:	918-660-0999
Sampler Name:	Monique Cueto	Fax #:	

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST										
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chlorides	BTEX	TPH								
H803100																									
10	SW3 - 1'	G				✓					✓		10/29/18	10:33	✓	✓	✓								
11	SW4 - 1'	G				✓					✓		10/29/18	10:50	✓	✓	✓								
12	SW5 - 1'	G				✓					✓		10/29/18	1:16	✓	✓	✓								
13	SW6 - 1'	G				✓					✓		10/29/18	1:25	✓	✓	✓								

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Relinquished By: M. Cueto	Date: 10-30-18 Time: 15:40	Received By: Tamara Gladden	Phone Result: ☐ Yes ☐ No	Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	Fax Result: ☐ Yes ☐ No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 2.4c #97	Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials) TO	REMARKS: Email: Natalie.Gladden@whitebuffalo.com Monique.Cueto@whitebuffalo.com	

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

Received by OCD: 9/14/2020 10:56:18 AM

CARDINAL Laboratories

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

November 07, 2018

NATALIE GLADDEN

WHITE BUFFALO

8908 YALE AVE #210

TULSA, OK 74137

RE: STATE L 'A' 8 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/31/18 15:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	10/31/2018	Sampling Date:	10/30/2018
Reported:	11/07/2018	Sampling Type:	Soil
Project Name:	STATE L 'A' 8 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2-1' (H803121-01)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/03/2018	ND	2.12	106	2.00	0.751	
Toluene*	<0.050	0.050	11/03/2018	ND	2.14	107	2.00	1.24	
Ethylbenzene*	<0.050	0.050	11/03/2018	ND	2.16	108	2.00	0.756	
Total Xylenes*	<0.150	0.150	11/03/2018	ND	6.73	112	6.00	0.0117	
Total BTEX	<0.300	0.300	11/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *69.8-142*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**848**	16.0	11/05/2018	ND	400	100	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2018	ND	205	103	200	1.56	
DRO >C10-C28*	<10.0	10.0	11/02/2018	ND	217	109	200	1.54	
EXT DRO >C28-C36	<10.0	10.0	11/02/2018	ND					

Surrogate: 1-Chlorooctane *102 %* *41-142*

Surrogate: 1-Chlorooctadecane *92.8 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	10/31/2018	Sampling Date:	10/30/2018
Reported:	11/07/2018	Sampling Type:	Soil
Project Name:	STATE L 'A' 8 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 3-1' (H803121-02)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/03/2018	ND	2.12	106	2.00	0.751	
Toluene*	<0.050	0.050	11/03/2018	ND	2.14	107	2.00	1.24	
Ethylbenzene*	**0.109**	0.050	11/03/2018	ND	2.16	108	2.00	0.756	
Total Xylenes*	<0.150	0.150	11/03/2018	ND	6.73	112	6.00	0.0117	
Total BTEX	<0.300	0.300	11/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *106 %* *69.8-142*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**544**	16.0	11/05/2018	ND	400	100	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	11/02/2018	ND	205	103	200	1.56	
DRO >C10-C28*	**706**	50.0	11/02/2018	ND	217	109	200	1.54	
EXT DRO >C28-C36	**303**	50.0	11/02/2018	ND					

Surrogate: 1-Chlorooctane *95.0 %* *41-142*

Surrogate: 1-Chlorooctadecane *112 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	10/31/2018	Sampling Date:	10/30/2018
Reported:	11/07/2018	Sampling Type:	Soil
Project Name:	STATE L 'A' 8 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 6-2' (H803121-03)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/03/2018	ND	2.12	106	2.00	0.751	
Toluene*	<0.050	0.050	11/03/2018	ND	2.14	107	2.00	1.24	
Ethylbenzene*	<0.050	0.050	11/03/2018	ND	2.16	108	2.00	0.756	
Total Xylenes*	<0.150	0.150	11/03/2018	ND	6.73	112	6.00	0.0117	
Total BTEX	<0.300	0.300	11/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *69.8-142*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	11/05/2018	ND	400	100	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	11/02/2018	ND	205	103	200	1.56	
DRO >C10-C28*	**4600**	50.0	11/02/2018	ND	217	109	200	1.54	
EXT DRO >C28-C36	**978**	50.0	11/02/2018	ND					

Surrogate: 1-Chlorooctane *96.8 %* *41-142*

Surrogate: 1-Chlorooctadecane *161 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	10/31/2018	Sampling Date:	10/26/2018
Reported:	11/07/2018	Sampling Type:	Soil
Project Name:	STATE L 'A' 8 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 7-2' (H803121-04)

BTEX 8260B mg/kg Analyzed By: ms S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/06/2018	ND	1.73	86.4	2.00	1.09	
Toluene*	<0.025	0.025	11/06/2018	ND	1.82	91.2	2.00	0.791	
Ethylbenzene*	**0.068**	0.025	11/06/2018	ND	1.78	89.0	2.00	1.33	
Total Xylenes*	**0.145**	0.075	11/06/2018	ND	5.71	95.2	6.00	2.97	
Total BTEX	**0.213**	0.150	11/06/2018	ND					

Surrogate: Dibromofluoromethane	*103 %*	*90.4-111*
Surrogate: Toluene-d8	*138 %*	*85.3-114*
Surrogate: 4-Bromofluorobenzene	*289 %*	*80.1-121*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**128**	16.0	11/05/2018	ND	400	100	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**136**	50.0	11/02/2018	ND	191	95.4	200	1.79	
DRO >C10-C28*	**5880**	50.0	11/02/2018	ND	193	96.5	200	5.16	QM-07
EXT DRO >C28-C36	**1270**	50.0	11/02/2018	ND					

Surrogate: 1-Chlorooctane	*95.2 %*	*41-142*
Surrogate: 1-Chlorooctadecane	*233 %*	*37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	10/31/2018	Sampling Date:	10/29/2018
Reported:	11/07/2018	Sampling Type:	Soil
Project Name:	STATE L 'A' 8 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 8-2' (H803121-05)

BTEX 8260B mg/kg Analyzed By: ms S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/06/2018	ND	1.73	86.4	2.00	1.09	
Toluene*	**0.086**	0.025	11/06/2018	ND	1.82	91.2	2.00	0.791	
Ethylbenzene*	**0.321**	0.025	11/06/2018	ND	1.78	89.0	2.00	1.33	
Total Xylenes*	**1.08**	0.075	11/06/2018	ND	5.71	95.2	6.00	2.97	
Total BTEX	**1.49**	0.150	11/06/2018	ND					

Surrogate: Dibromofluoromethane	*98.4 %*	*90.4-111*
Surrogate: Toluene-d8	*121 %*	*85.3-114*
Surrogate: 4-Bromofluorobenzene	*250 %*	*80.1-121*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**304**	16.0	11/05/2018	ND	400	100	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**139**	50.0	11/02/2018	ND	191	95.4	200	1.79	
DRO >C10-C28*	**2600**	50.0	11/02/2018	ND	193	96.5	200	5.16	
EXT DRO >C28-C36	**519**	50.0	11/02/2018	ND					

Surrogate: 1-Chlorooctane	*115 %*	*41-142*
Surrogate: 1-Chlorooctadecane	*136 %*	*37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	10/31/2018	Sampling Date:	10/30/2018
Reported:	11/07/2018	Sampling Type:	Soil
Project Name:	STATE L 'A' 8 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 9-2' (H803121-06)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/03/2018	ND	2.12	106	2.00	0.751	
Toluene*	<0.050	0.050	11/03/2018	ND	2.14	107	2.00	1.24	
Ethylbenzene*	<0.050	0.050	11/03/2018	ND	2.16	108	2.00	0.756	
Total Xylenes*	<0.150	0.150	11/03/2018	ND	6.73	112	6.00	0.0117	
Total BTEX	<0.300	0.300	11/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.0 %* *69.8-142*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	11/05/2018	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2018	ND	191	95.4	200	1.79	
DRO >C10-C28*	<10.0	10.0	11/02/2018	ND	193	96.5	200	5.16	
EXT DRO >C28-C36	<10.0	10.0	11/02/2018	ND					

Surrogate: 1-Chlorooctane *97.1 %* *41-142*

Surrogate: 1-Chlorooctadecane *87.9 %* *37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	10/31/2018	Sampling Date:	10/30/2018
Reported:	11/07/2018	Sampling Type:	Soil
Project Name:	STATE L 'A' 8 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 10-2' (H803121-07)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/03/2018	ND	2.12	106	2.00	0.751	
Toluene*	<0.050	0.050	11/03/2018	ND	2.14	107	2.00	1.24	
Ethylbenzene*	<0.050	0.050	11/03/2018	ND	2.16	108	2.00	0.756	
Total Xylenes*	<0.150	0.150	11/03/2018	ND	6.73	112	6.00	0.0117	
Total BTEX	<0.300	0.300	11/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.3 %* *69.8-142*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	11/05/2018	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2018	ND	191	95.4	200	1.79	
DRO >C10-C28*	<10.0	10.0	11/02/2018	ND	193	96.5	200	5.16	
EXT DRO >C28-C36	<10.0	10.0	11/02/2018	ND					

Surrogate: 1-Chlorooctane *103 %* *41-142*

Surrogate: 1-Chlorooctadecane *93.8 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	10/31/2018	Sampling Date:	10/30/2018
Reported:	11/07/2018	Sampling Type:	Soil
Project Name:	STATE L 'A' 8 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 11-2' (H803121-08)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/03/2018	ND	2.12	106	2.00	0.751	
Toluene*	<0.050	0.050	11/03/2018	ND	2.14	107	2.00	1.24	
Ethylbenzene*	<0.050	0.050	11/03/2018	ND	2.16	108	2.00	0.756	
Total Xylenes*	<0.150	0.150	11/03/2018	ND	6.73	112	6.00	0.0117	
Total BTEX	<0.300	0.300	11/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.8 %* *69.8-142*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**240**	16.0	11/05/2018	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2018	ND	191	95.4	200	1.79	
DRO >C10-C28*	**47.3**	10.0	11/02/2018	ND	193	96.5	200	5.16	
EXT DRO >C28-C36	<10.0	10.0	11/02/2018	ND					

Surrogate: 1-Chlorooctane *98.3 %* *41-142*

Surrogate: 1-Chlorooctadecane *91.9 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	10/31/2018	Sampling Date:	10/26/2018
Reported:	11/07/2018	Sampling Type:	Soil
Project Name:	STATE L 'A' 8 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 12-2' (H803121-09)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/03/2018	ND	2.12	106	2.00	0.751	
Toluene*	<0.050	0.050	11/03/2018	ND	2.14	107	2.00	1.24	
Ethylbenzene*	<0.050	0.050	11/03/2018	ND	2.16	108	2.00	0.756	
Total Xylenes*	<0.150	0.150	11/03/2018	ND	6.73	112	6.00	0.0117	
Total BTEX	<0.300	0.300	11/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *69.8-142*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	11/05/2018	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2018	ND	191	95.4	200	1.79	
DRO >C10-C28*	**62.0**	10.0	11/02/2018	ND	193	96.5	200	5.16	
EXT DRO >C28-C36	**34.2**	10.0	11/02/2018	ND					

Surrogate: 1-Chlorooctane *103 %* *41-142*

Surrogate: 1-Chlorooctadecane *96.0 %* *37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	10/31/2018	Sampling Date:	10/26/2018
Reported:	11/07/2018	Sampling Type:	Soil
Project Name:	STATE L 'A' 8 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 13-2' (H803121-10)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/03/2018	ND	2.12	106	2.00	0.751	
Toluene*	<0.050	0.050	11/03/2018	ND	2.14	107	2.00	1.24	
Ethylbenzene*	<0.050	0.050	11/03/2018	ND	2.16	108	2.00	0.756	
Total Xylenes*	**0.189**	0.150	11/03/2018	ND	6.73	112	6.00	0.0117	
Total BTEX	<0.300	0.300	11/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *107 %* *69.8-142*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**336**	16.0	11/05/2018	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**14.6**	10.0	11/02/2018	ND	191	95.4	200	1.79	
DRO >C10-C28*	**222**	10.0	11/02/2018	ND	193	96.5	200	5.16	
EXT DRO >C28-C36	**43.1**	10.0	11/02/2018	ND					

Surrogate: 1-Chlorooctane *98.7 %* *41-142*

Surrogate: 1-Chlorooctadecane *96.3 %* *37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	10/31/2018	Sampling Date:	10/26/2018
Reported:	11/07/2018	Sampling Type:	Soil
Project Name:	STATE L 'A' 8 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 19-3' (H803121-11)

BTEX 8260B mg/kg Analyzed By: ms S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**0.364**	0.100	11/07/2018	ND	1.73	86.4	2.00	1.09	
Toluene*	**0.492**	0.100	11/07/2018	ND	1.82	91.2	2.00	0.791	
Ethylbenzene*	**6.25**	0.100	11/07/2018	ND	1.78	89.0	2.00	1.33	
Total Xylenes*	**3.03**	0.300	11/07/2018	ND	5.71	95.2	6.00	2.97	
Total BTEX	**10.1**	0.600	11/07/2018	ND					

Surrogate: Dibromofluoromethane	*97.6 %*	*90.4-111*
Surrogate: Toluene-d8	*162 %*	*85.3-114*
Surrogate: 4-Bromofluorobenzene	*364 %*	*80.1-121*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**944**	16.0	11/05/2018	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**1550**	100	11/02/2018	ND	191	95.4	200	1.79	
DRO >C10-C28*	**11000**	100	11/02/2018	ND	193	96.5	200	5.16	
EXT DRO >C28-C36	**1630**	100	11/02/2018	ND					

Surrogate: 1-Chlorooctane	*200 %*	*41-142*
Surrogate: 1-Chlorooctadecane	*284 %*	*37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	10/31/2018	Sampling Date:	10/29/2018
Reported:	11/07/2018	Sampling Type:	Soil
Project Name:	STATE L 'A' 8 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 24-2' (H803121-12)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/03/2018	ND	2.12	106	2.00	0.751	
Toluene*	<0.050	0.050	11/03/2018	ND	2.14	107	2.00	1.24	
Ethylbenzene*	<0.050	0.050	11/03/2018	ND	2.16	108	2.00	0.756	
Total Xylenes*	**0.184**	0.150	11/03/2018	ND	6.73	112	6.00	0.0117	
Total BTEX	<0.300	0.300	11/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID *117 %* *69.8-142*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**368**	16.0	11/05/2018	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**26.8**	10.0	11/03/2018	ND	191	95.4	200	1.79	
DRO >C10-C28*	**1460**	10.0	11/03/2018	ND	193	96.5	200	5.16	
EXT DRO >C28-C36	**463**	10.0	11/03/2018	ND					

Surrogate: 1-Chlorooctane *104 %* *41-142*

Surrogate: 1-Chlorooctadecane *146 %* *37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	10/31/2018	Sampling Date:	10/29/2018
Reported:	11/07/2018	Sampling Type:	Soil
Project Name:	STATE L 'A' 8 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 26-2' (H803121-13)

BTEX 8260B mg/kg Analyzed By: ms S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	11/07/2018	ND	1.73	86.4	2.00	1.09	
Toluene*	**2.31**	0.100	11/07/2018	ND	1.82	91.2	2.00	0.791	
Ethylbenzene*	**1.99**	0.100	11/07/2018	ND	1.78	89.0	2.00	1.33	
Total Xylenes*	**14.8**	0.300	11/07/2018	ND	5.71	95.2	6.00	2.97	
Total BTEX	**19.1**	0.600	11/07/2018	ND					

Surrogate: Dibromofluoromethane	*96.3 %*	*90.4-111*
Surrogate: Toluene-d8	*125 %*	*85.3-114*
Surrogate: 4-Bromofluorobenzene	*207 %*	*80.1-121*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**304**	16.0	11/05/2018	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**543**	50.0	11/02/2018	ND	191	95.4	200	1.79	
DRO >C10-C28*	**5200**	50.0	11/02/2018	ND	193	96.5	200	5.16	
EXT DRO >C28-C36	**656**	50.0	11/02/2018	ND					

Surrogate: 1-Chlorooctane	*163 %*	*41-142*
Surrogate: 1-Chlorooctadecane	*150 %*	*37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

WHITE BUFFALO
NATALIE GLADDEN
8908 YALE AVE #210
TULSA OK, 74137
Fax To:

Received:	10/31/2018	Sampling Date:	10/26/2018
Reported:	11/07/2018	Sampling Type:	Soil
Project Name:	STATE L 'A' 8 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 28-1' (H803121-14)

BTEX 8260B mg/kg Analyzed By: ms S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/06/2018	ND	1.73	86.4	2.00	1.09	
Toluene*	<0.025	0.025	11/06/2018	ND	1.82	91.2	2.00	0.791	
Ethylbenzene*	**0.037**	0.025	11/06/2018	ND	1.78	89.0	2.00	1.33	
Total Xylenes*	**0.135**	0.075	11/06/2018	ND	5.71	95.2	6.00	2.97	
Total BTEX	**0.172**	0.150	11/06/2018	ND					

Surrogate: Dibromofluoromethane	*93.5 %*	*90.4-111*
Surrogate: Toluene-d8	*107 %*	*85.3-114*
Surrogate: 4-Bromofluorobenzene	*203 %*	*80.1-121*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**352**	16.0	11/05/2018	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**26.8**	10.0	11/03/2018	ND	191	95.4	200	1.79	
DRO >C10-C28*	**1430**	10.0	11/03/2018	ND	193	96.5	200	5.16	
EXT DRO >C28-C36	**438**	10.0	11/03/2018	ND					

Surrogate: 1-Chlorooctane	*104 %*	*41-142*
Surrogate: 1-Chlorooctadecane	*144 %*	*37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Vanguard	BILL TO	
Project Manager:	Brent White	P.O. #:	
Address:	4001 Penbrook St. Ste 201	Company:	White Buffalo
City:	Odessa State: TX Zip: 79762	Attn:	Steve McFarlin
Phone #:	Fax #:	Address:	8908 Yale Ave #210
Project #:	Project Owner:	City:	Tulsa
Project Name:	State L "A" 8 Bty	State:	OK Zip: 74137
Project Location:		Phone #:	918-660-0999
Sampler Name:	Monique Cueto	Fax #:	

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chlorides	BTEX	TPH
480312																	
1	SP2-1'	G				✓					✓		10/30/18	10:07	✓	✓	✓
2	SP3-1'	G				✓					✓		10/30/18	1:10	✓	✓	✓
3	SP6-2'	G				✓					✓		10/30/18	11:20	✓	✓	✓
4	SP7-2'	G				✓					✓		10/24/18	11:30	✓	✓	✓
5	SP8-2'	G				✓					✓		10/25/18	9:28	✓	✓	✓
6	SP9-2'	G				✓					✓		10/30/18	1:46	✓	✓	✓
7	SP10-2'	G				✓					✓		10/30/18	1:05	✓	✓	✓
8	SP11-2'	G				✓					✓		10/30/18	10:23	✓	✓	✓
9	SP12-2'	G				✓					✓		10/24/18	8:30	✓	✓	✓
10	SP13-2'	G				✓					✓		10/26/18	10:55	✓	✓	✓

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Relinquished By:	Date: 10-31-18	Received By:	Phone Result: ☐ Yes ☐ No	Add'l Phone #:
	Time: 15:55		Fax Result: ☐ Yes ☐ No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: Email: Natalie.Gladden@whitebuffalo.com, Monique.Cueto@whitebuffalo.com	
	Time:			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	4.3°C #197	Sample Condition Cool ☑ Yes ☐ No Intact ☑ Yes ☐ No	CHECKED BY: (Initials) T.O.	

+ Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

Received by OCD: 9/14/2020 10:56:18 AM

Page 103 of 287

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Vanguard	**BILL TO**	
Project Manager:	Brent White	P.O. #:	
Address:	4001 Penbrook St. Ste. 201	Company:	White Buffalo
City:	Odessa State: TX Zip: 79762	Attn:	Steve McFarlin
Phone #:	Fax #:	Address:	8908 Yale Ave #210
Project #:	Project Owner:	City:	Tulsa
Project Name:	State L "A" 8 Bty	State:	OK Zip: 74137
Project Location:		Phone #:	918-660-0999
Sampler Name:	Monique Cueto	Fax #:	

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chlorides	BTEX	TPH
H803121																	
11	SP19-3'	G						✓			✓		10/26/18	11:30	✓	✓	✓
12	SP24-2'	G				✓					✓		10/29/18	10:08	✓	✓	✓
13	SP26-2'	G				✓					✓		10/29/18	9:37	✓	✓	✓
14	SP28-1'	G				✓					✓		10/26/18	8:50	✓	✓	✓

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Relinquished By:	Date: 10-31-18 Time: 15:55	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 4.3° #97	Sample Condition Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No	CHECKED BY: (Initials) TO	REMARKS: Email: Natalie.Gladden@whitebuffalo.com Monique.Cueto@whitebuffalo.com

+ Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

Received by OCD: 9/14/2020 10:56:18 AM

CARDINAL Laboratories

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

August 19, 2019

CARMEN PITT

VANGUARD / GRIZZLY

4001 PENBROOK STE. 201

ODESSA, TX 79762

RE: STATE L'A

Enclosed are the results of analyses for samples received by the laboratory on 08/15/19 7:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

VANGUARD / GRIZZLY
CARMEN PITT
4001 PENBROOK STE. 201
ODESSA TX, 79762
Fax To:

Received:	08/15/2019	Sampling Date:	08/12/2019
Reported:	08/19/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 - 2 (H902798-01)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	ND	1.86	92.9	2.00	3.68	
Toluene*	<0.050	0.050	08/17/2019	ND	1.96	98.0	2.00	4.39	
Ethylbenzene*	<0.050	0.050	08/17/2019	ND	2.09	104	2.00	3.42	
Total Xylenes*	<0.150	0.150	08/17/2019	ND	6.31	105	6.00	2.69	
Total BTEX	<0.300	0.300	08/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**496**	16.0	08/16/2019	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS **S-06**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<100	100	08/16/2019	ND	191	95.7	200	1.10	
DRO >C10-C28*	**4640**	100	08/16/2019	ND	200	100	200	1.10	
EXT DRO >C28-C36	**1770**	100	08/16/2019	ND					

Surrogate: 1-Chlorooctane *103 %* *41-142*

Surrogate: 1-Chlorooctadecane *300 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

VANGUARD / GRIZZLY
CARMEN PITT
4001 PENBROOK STE. 201
ODESSA TX, 79762
Fax To:

Received:	08/15/2019	Sampling Date:	08/12/2019
Reported:	08/19/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 - 2 (H902798-02)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	ND	1.86	92.9	2.00	3.68	
Toluene*	<0.050	0.050	08/17/2019	ND	1.96	98.0	2.00	4.39	
Ethylbenzene*	<0.050	0.050	08/17/2019	ND	2.09	104	2.00	3.42	
Total Xylenes*	**0.160**	0.150	08/17/2019	ND	6.31	105	6.00	2.69	
Total BTEX	<0.300	0.300	08/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *128 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1440**	16.0	08/16/2019	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	08/16/2019	ND	191	95.7	200	1.10	
DRO >C10-C28*	**2060**	50.0	08/16/2019	ND	200	100	200	1.10	
EXT DRO >C28-C36	**1010**	50.0	08/16/2019	ND					

Surrogate: 1-Chlorooctane *103 %* *41-142*

Surrogate: 1-Chlorooctadecane *182 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

VANGUARD / GRIZZLY
CARMEN PITT
4001 PENBROOK STE. 201
ODESSA TX, 79762
Fax To:

Received:	08/15/2019	Sampling Date:	08/12/2019
Reported:	08/19/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 3 - 2 (H902798-03)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	ND	1.86	92.9	2.00	3.68	
Toluene*	<0.050	0.050	08/17/2019	ND	1.96	98.0	2.00	4.39	
Ethylbenzene*	<0.050	0.050	08/17/2019	ND	2.09	104	2.00	3.42	
Total Xylenes*	<0.150	0.150	08/17/2019	ND	6.31	105	6.00	2.69	
Total BTEX	<0.300	0.300	08/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *117 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1420**	16.0	08/16/2019	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	08/16/2019	ND	191	95.7	200	1.10	
DRO >C10-C28*	**4390**	50.0	08/16/2019	ND	200	100	200	1.10	
EXT DRO >C28-C36	**1690**	50.0	08/16/2019	ND					

Surrogate: 1-Chlorooctane *106 %* *41-142*

Surrogate: 1-Chlorooctadecane *279 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

VANGUARD / GRIZZLY
CARMEN PITT
4001 PENBROOK STE. 201
ODESSA TX, 79762
Fax To:

Received:	08/15/2019	Sampling Date:	08/12/2019
Reported:	08/19/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 4 - 2 (H902798-04)

BTEX 8021B mg/kg Analyzed By: ms S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	ND	1.86	92.9	2.00	3.68	
Toluene*	**0.195**	0.050	08/17/2019	ND	1.96	98.0	2.00	4.39	
Ethylbenzene*	<0.050	0.050	08/17/2019	ND	2.09	104	2.00	3.42	
Total Xylenes*	<0.150	0.150	08/17/2019	ND	6.31	105	6.00	2.69	
Total BTEX	<0.300	0.300	08/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *162 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1170**	16.0	08/16/2019	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**139**	50.0	08/16/2019	ND	191	95.7	200	1.10	
DRO >C10-C28*	**6230**	50.0	08/16/2019	ND	200	100	200	1.10	
EXT DRO >C28-C36	**1940**	50.0	08/16/2019	ND					

Surrogate: 1-Chlorooctane *107 %* *41-142*

Surrogate: 1-Chlorooctadecane *314 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

VANGUARD / GRIZZLY
CARMEN PITT
4001 PENBROOK STE. 201
ODESSA TX, 79762
Fax To:

Received:	08/15/2019	Sampling Date:	08/12/2019
Reported:	08/19/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 5 - 1 (H902798-05)

BTEX 8021B mg/kg Analyzed By: ms S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	ND	1.86	92.9	2.00	3.68	
Toluene*	**0.084**	0.050	08/17/2019	ND	1.96	98.0	2.00	4.39	
Ethylbenzene*	**0.862**	0.050	08/17/2019	ND	2.09	104	2.00	3.42	
Total Xylenes*	**0.685**	0.150	08/17/2019	ND	6.31	105	6.00	2.69	
Total BTEX	**1.63**	0.300	08/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *130 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1140**	16.0	08/16/2019	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**72.7**	50.0	08/16/2019	ND	191	95.7	200	1.10	
DRO >C10-C28*	**9660**	50.0	08/16/2019	ND	200	100	200	1.10	
EXT DRO >C28-C36	**3770**	50.0	08/16/2019	ND					

Surrogate: 1-Chlorooctane *109 %* *41-142*

Surrogate: 1-Chlorooctadecane *461 %* *37.6-147*

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Analytical Results For:

VANGUARD / GRIZZLY
CARMEN PITT
4001 PENBROOK STE. 201
ODESSA TX, 79762
Fax To:

Received:	08/15/2019	Sampling Date:	08/12/2019
Reported:	08/19/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 6 - 1 (H902798-06)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	ND	1.86	92.9	2.00	3.68	
Toluene*	<0.050	0.050	08/17/2019	ND	1.96	98.0	2.00	4.39	
Ethylbenzene*	<0.050	0.050	08/17/2019	ND	2.09	104	2.00	3.42	
Total Xylenes*	<0.150	0.150	08/17/2019	ND	6.31	105	6.00	2.69	
Total BTEX	<0.300	0.300	08/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *120 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**784**	16.0	08/16/2019	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	08/16/2019	ND	191	95.7	200	1.10	
DRO >C10-C28*	**9130**	50.0	08/16/2019	ND	200	100	200	1.10	
EXT DRO >C28-C36	**3410**	50.0	08/16/2019	ND					

Surrogate: 1-Chlorooctane *106 %* *41-142*

Surrogate: 1-Chlorooctadecane *490 %* *37.6-147*

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Analytical Results For:

VANGUARD / GRIZZLY
CARMEN PITT
4001 PENBROOK STE. 201
ODESSA TX, 79762
Fax To:

Received:	08/15/2019	Sampling Date:	08/12/2019
Reported:	08/19/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 7 - 2 (H902798-07)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	ND	1.86	92.9	2.00	3.68	
Toluene*	<0.050	0.050	08/17/2019	ND	1.96	98.0	2.00	4.39	
Ethylbenzene*	**0.174**	0.050	08/17/2019	ND	2.09	104	2.00	3.42	
Total Xylenes*	<0.150	0.150	08/17/2019	ND	6.31	105	6.00	2.69	
Total BTEX	<0.300	0.300	08/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *106 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**800**	16.0	08/16/2019	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<100	100	08/16/2019	ND	191	95.7	200	1.10	
DRO >C10-C28*	**18200**	100	08/16/2019	ND	200	100	200	1.10	
EXT DRO >C28-C36	**7320**	100	08/16/2019	ND					

Surrogate: 1-Chlorooctane *107 %* *41-142*

Surrogate: 1-Chlorooctadecane *626 %* *37.6-147*

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Analytical Results For:

VANGUARD / GRIZZLY
CARMEN PITT
4001 PENBROOK STE. 201
ODESSA TX, 79762
Fax To:

Received:	08/15/2019	Sampling Date:	08/12/2019
Reported:	08/19/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 8 - 2 (H902798-08)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	ND	1.86	92.9	2.00	3.68	
Toluene*	<0.050	0.050	08/17/2019	ND	1.96	98.0	2.00	4.39	
Ethylbenzene*	**0.058**	0.050	08/17/2019	ND	2.09	104	2.00	3.42	
Total Xylenes*	<0.150	0.150	08/17/2019	ND	6.31	105	6.00	2.69	
Total BTEX	<0.300	0.300	08/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**704**	16.0	08/16/2019	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	08/16/2019	ND	191	95.7	200	1.10	
DRO >C10-C28*	**2370**	50.0	08/16/2019	ND	200	100	200	1.10	
EXT DRO >C28-C36	**1200**	50.0	08/16/2019	ND					

Surrogate: 1-Chlorooctane *93.9 %* *41-142*

Surrogate: 1-Chlorooctadecane *219 %* *37.6-147*

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Analytical Results For:

VANGUARD / GRIZZLY
CARMEN PITT
4001 PENBROOK STE. 201
ODESSA TX, 79762
Fax To:

Received:	08/15/2019	Sampling Date:	08/12/2019
Reported:	08/19/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 9 - 2 (H902798-09)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	ND	1.86	92.9	2.00	3.68	
Toluene*	<0.050	0.050	08/17/2019	ND	1.96	98.0	2.00	4.39	
Ethylbenzene*	<0.050	0.050	08/17/2019	ND	2.09	104	2.00	3.42	
Total Xylenes*	<0.150	0.150	08/17/2019	ND	6.31	105	6.00	2.69	
Total BTEX	<0.300	0.300	08/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *95.5 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**208**	16.0	08/16/2019	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	08/16/2019	ND	191	95.7	200	1.10	
DRO >C10-C28*	**10100**	50.0	08/16/2019	ND	200	100	200	1.10	
EXT DRO >C28-C36	**3120**	50.0	08/16/2019	ND					

Surrogate: 1-Chlorooctane *99.7 %* *41-142*

Surrogate: 1-Chlorooctadecane *528 %* *37.6-147*

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Analytical Results For:

VANGUARD / GRIZZLY
CARMEN PITT
4001 PENBROOK STE. 201
ODESSA TX, 79762
Fax To:

Received:	08/15/2019	Sampling Date:	08/12/2019
Reported:	08/19/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 10 - 2 (H902798-10)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	ND	1.86	92.9	2.00	3.68	
Toluene*	<0.050	0.050	08/17/2019	ND	1.96	98.0	2.00	4.39	
Ethylbenzene*	<0.050	0.050	08/17/2019	ND	2.09	104	2.00	3.42	
Total Xylenes*	<0.150	0.150	08/17/2019	ND	6.31	105	6.00	2.69	
Total BTEX	<0.300	0.300	08/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *93.5 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1600**	16.0	08/16/2019	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2019	ND	191	95.7	200	1.10	
DRO >C10-C28*	<10.0	10.0	08/16/2019	ND	200	100	200	1.10	
EXT DRO >C28-C36	**15.6**	10.0	08/16/2019	ND					

Surrogate: 1-Chlorooctane *94.0 %* *41-142*

Surrogate: 1-Chlorooctadecane *97.0 %* *37.6-147*

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Analytical Results For:

VANGUARD / GRIZZLY
CARMEN PITT
4001 PENBROOK STE. 201
ODESSA TX, 79762
Fax To:

Received:	08/15/2019	Sampling Date:	08/08/2019
Reported:	08/19/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 11 - 2 (H902798-11)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	ND	1.86	92.9	2.00	3.68	
Toluene*	<0.050	0.050	08/17/2019	ND	1.96	98.0	2.00	4.39	
Ethylbenzene*	<0.050	0.050	08/17/2019	ND	2.09	104	2.00	3.42	
Total Xylenes*	<0.150	0.150	08/17/2019	ND	6.31	105	6.00	2.69	
Total BTEX	<0.300	0.300	08/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *93.2 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**752**	16.0	08/16/2019	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2019	ND	191	95.7	200	1.10	
DRO >C10-C28*	**129**	10.0	08/16/2019	ND	200	100	200	1.10	
EXT DRO >C28-C36	**81.5**	10.0	08/16/2019	ND					

Surrogate: 1-Chlorooctane *91.3 %* *41-142*

Surrogate: 1-Chlorooctadecane *100 %* *37.6-147*

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Analytical Results For:

VANGUARD / GRIZZLY
CARMEN PITT
4001 PENBROOK STE. 201
ODESSA TX, 79762
Fax To:

Received:	08/15/2019	Sampling Date:	08/08/2019
Reported:	08/19/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 12 - 2 (H902798-12)

BTEX 8021B mg/kg Analyzed By: ms S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	ND	1.86	92.9	2.00	3.68	
Toluene*	<0.050	0.050	08/17/2019	ND	1.96	98.0	2.00	4.39	
Ethylbenzene*	<0.050	0.050	08/17/2019	ND	2.09	104	2.00	3.42	
Total Xylenes*	<0.150	0.150	08/17/2019	ND	6.31	105	6.00	2.69	
Total BTEX	<0.300	0.300	08/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *151 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/16/2019	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**199**	50.0	08/16/2019	ND	191	95.7	200	1.10	
DRO >C10-C28*	**5340**	50.0	08/16/2019	ND	200	100	200	1.10	
EXT DRO >C28-C36	**1320**	50.0	08/16/2019	ND					

Surrogate: 1-Chlorooctane *143 %* *41-142*

Surrogate: 1-Chlorooctadecane *322 %* *37.6-147*

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Analytical Results For:

VANGUARD / GRIZZLY
CARMEN PITT
4001 PENBROOK STE. 201
ODESSA TX, 79762
Fax To:

Received:	08/15/2019	Sampling Date:	08/08/2019
Reported:	08/19/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 13 - 2 (H902798-13)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	ND	1.86	92.9	2.00	3.68	
Toluene*	<0.050	0.050	08/17/2019	ND	1.96	98.0	2.00	4.39	
Ethylbenzene*	<0.050	0.050	08/17/2019	ND	2.09	104	2.00	3.42	
Total Xylenes*	<0.150	0.150	08/17/2019	ND	6.31	105	6.00	2.69	
Total BTEX	<0.300	0.300	08/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *94.0 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	08/16/2019	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	08/16/2019	ND	191	95.7	200	1.10	
DRO >C10-C28*	**142**	50.0	08/16/2019	ND	200	100	200	1.10	
EXT DRO >C28-C36	**186**	50.0	08/16/2019	ND					

Surrogate: 1-Chlorooctane *95.7 %* *41-142*

Surrogate: 1-Chlorooctadecane *109 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

VANGUARD / GRIZZLY
CARMEN PITT
4001 PENBROOK STE. 201
ODESSA TX, 79762
Fax To:

Received:	08/15/2019	Sampling Date:	08/08/2019
Reported:	08/19/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 14 - 1 (H902798-14)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	ND	1.86	92.9	2.00	3.68	
Toluene*	<0.050	0.050	08/17/2019	ND	1.96	98.0	2.00	4.39	
Ethylbenzene*	<0.050	0.050	08/17/2019	ND	2.09	104	2.00	3.42	
Total Xylenes*	<0.150	0.150	08/17/2019	ND	6.31	105	6.00	2.69	
Total BTEX	<0.300	0.300	08/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *92.8 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**304**	16.0	08/16/2019	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	08/16/2019	ND	191	95.7	200	1.10	
DRO >C10-C28*	**1080**	50.0	08/16/2019	ND	200	100	200	1.10	
EXT DRO >C28-C36	**568**	50.0	08/16/2019	ND					

Surrogate: 1-Chlorooctane *87.6 %* *41-142*

Surrogate: 1-Chlorooctadecane *134 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

VANGUARD / GRIZZLY
CARMEN PITT
4001 PENBROOK STE. 201
ODESSA TX, 79762
Fax To:

Received:	08/15/2019	Sampling Date:	08/08/2019
Reported:	08/19/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 15 - 1 (H902798-15)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	ND	1.86	92.9	2.00	3.68	
Toluene*	<0.050	0.050	08/17/2019	ND	1.96	98.0	2.00	4.39	
Ethylbenzene*	<0.050	0.050	08/17/2019	ND	2.09	104	2.00	3.42	
Total Xylenes*	<0.150	0.150	08/17/2019	ND	6.31	105	6.00	2.69	
Total BTEX	<0.300	0.300	08/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *93.2 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	08/16/2019	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/16/2019	ND	191	95.7	200	1.10	
DRO >C10-C28*	**1160**	10.0	08/16/2019	ND	200	100	200	1.10	
EXT DRO >C28-C36	**551**	10.0	08/16/2019	ND					

Surrogate: 1-Chlorooctane *97.3 %* *41-142*

Surrogate: 1-Chlorooctadecane *154 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

VANGUARD / GRIZZLY
CARMEN PITT
4001 PENBROOK STE. 201
ODESSA TX, 79762
Fax To:

Received:	08/15/2019	Sampling Date:	08/08/2019
Reported:	08/19/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 16 - 1 (H902798-16)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	ND	1.86	92.9	2.00	3.68	
Toluene*	<0.050	0.050	08/17/2019	ND	1.96	98.0	2.00	4.39	
Ethylbenzene*	<0.050	0.050	08/17/2019	ND	2.09	104	2.00	3.42	
Total Xylenes*	<0.150	0.150	08/17/2019	ND	6.31	105	6.00	2.69	
Total BTEX	<0.300	0.300	08/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *93.7 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**144**	16.0	08/16/2019	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	08/15/2019	ND	189	94.5	200	3.25	
DRO >C10-C28*	**356**	50.0	08/15/2019	ND	220	110	200	0.971	
EXT DRO >C28-C36	**236**	50.0	08/15/2019	ND					

Surrogate: 1-Chlorooctane *94.7 %* *41-142*

Surrogate: 1-Chlorooctadecane *119 %* *37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

VANGUARD / GRIZZLY
CARMEN PITT
4001 PENBROOK STE. 201
ODESSA TX, 79762
Fax To:

Received:	08/15/2019	Sampling Date:	08/08/2019
Reported:	08/19/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 17- 1 (H902798-17)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	ND	1.86	92.9	2.00	3.68	
Toluene*	<0.050	0.050	08/17/2019	ND	1.96	98.0	2.00	4.39	
Ethylbenzene*	<0.050	0.050	08/17/2019	ND	2.09	104	2.00	3.42	
Total Xylenes*	<0.150	0.150	08/17/2019	ND	6.31	105	6.00	2.69	
Total BTEX	<0.300	0.300	08/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *124 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**144**	16.0	08/16/2019	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<100	100	08/15/2019	ND	189	94.5	200	3.25	
DRO >C10-C28*	**12600**	100	08/15/2019	ND	220	110	200	0.971	
EXT DRO >C28-C36	**4680**	100	08/15/2019	ND					

Surrogate: 1-Chlorooctane *97.0 %* *41-142*

Surrogate: 1-Chlorooctadecane *542 %* *37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

VANGUARD / GRIZZLY
CARMEN PITT
4001 PENBROOK STE. 201
ODESSA TX, 79762
Fax To:

Received:	08/15/2019	Sampling Date:	08/08/2019
Reported:	08/19/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 18 - 1 (H902798-18)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	ND	1.86	92.9	2.00	3.68	
Toluene*	<0.050	0.050	08/17/2019	ND	1.96	98.0	2.00	4.39	
Ethylbenzene*	**0.169**	0.050	08/17/2019	ND	2.09	104	2.00	3.42	
Total Xylenes*	<0.150	0.150	08/17/2019	ND	6.31	105	6.00	2.69	
Total BTEX	<0.300	0.300	08/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	08/16/2019	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	08/15/2019	ND	189	94.5	200	3.25	
DRO >C10-C28*	**2990**	50.0	08/15/2019	ND	220	110	200	0.971	
EXT DRO >C28-C36	**1260**	50.0	08/15/2019	ND					

Surrogate: 1-Chlorooctane *91.5 %* *41-142*

Surrogate: 1-Chlorooctadecane *187 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager

Page 124 of 287

CARDINAL Laboratories

1 of 2

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Vanguard / Grizzly
Project Manager:	Carmen Pitt
Address:	
City:	State: Zip:
Phone #:	Fax #:
Project #:	Project Owner:
Project Name:	
Project Location:	State L'A
Sampler Name:	M. Rivera

BILL TO

P.O. #:	Vanguard
Company:	Grizzly
Attn:	Carmen Pitt
Address:	4001 Penbrook
City:	STE -201 Odessa
State:	TX Zip: 79762
Phone #:	432-248-8148
Fax #:	

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: Chlorides	BTEX	TPH
H902798 1	SP1-2	G	1			X					X		8-12-19	8:09	X	X	X
2	SP2-2	G	1			X					X			8:17	X	X	X
3	SP3-2	G	1			X					X			8:22	X	X	X
4	SP4-2	G	1			X					X			8:37	X	X	X
5	SP5-1	G	1			X					X			8:54	X	X	X
6	SP6-1	G	1			X					X			9:02	X	X	X
7	SP7-2	G	1			X					X			9:14	X	X	X
8	SP8-2	G	1			X					X			9:18	X	X	X
9	SP9-2	G	1			X					X			9:26	X	X	X
10	SP10-2	G	1			X					X			9:34	X	X	X

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Relinquished By: Kaitlyn Montanez	Date: 8.15.19 Time: 7:53	Received By: Brandi Oldaker	
Relinquished By: Brandi Oldaker	Date: 8-15-19 Time: 0755	Received By: Tamara Oldaker	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 2.0° / 2.4° correct #197	Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No	CHECKED BY: (Initials) BMO T.O.	

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS:
kmontanez@Hungry-Horse.com
mgladden@Hungry-Horse.com

Received by OCD: 9/14/2020 10:56:18 AM

Page 125 of 287

CARDINAL Laboratories

2 of 2

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Vanguard/Grizzly
Project Manager:	Carmen Pitt
Address:	
City:	State: Zip:
Phone #:	Fax #:
Project #:	Project Owner:
Project Name:	
Project Location:	State L'A
Sampler Name:	M. Rivera

BILL TO

P.O. #:	Vanguard
Company:	Grizzly
Attn:	Carmen Pitt
Address:	4001 Penbrook
City:	STE 201 Odessa
State:	TX Zip: 79762
Phone #:	432-248-8745
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING DATE	TIME	Chlorides	BTEX	TPH
H902798																	
11	SP 11-2	G	1			X					X		8-8-19	9:49	X	X	X
12	SP 12-2	G	1			X					X			10:00	X	X	X
13	SP 13-2	G	1			X					X			10:21	X	X	X
14	SP 14-1	G	1			X					X			10:38	X	X	X
15	SP 15-1	G	1			X					X			10:43	X	X	X
16	SP 16-1	G	1			X					X			10:56	X	X	X
17	SP 17-1	G	1			X					X			11:00	X	X	X
18	SP 18-1	G	1			X					X			11:42	X	X	X

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Relinquished By: Kathryn Montanez	Date: 8.15.19	Received By: Brandi Oldaker	
Relinquished By: Brandi Oldaker	Date: 8-15-19 Time: 0755	Received By: Tamara Oldaker	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	2.0°/2.4 correct #97	Sample Condition Cool: Yes / No Intact: Yes / No	CHECKED BY: (Initials) BIO T.O.

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS:
Kmontanez@Hungry-Horse.com
NGladden@Hungry-Horse.com

Received by OCD: 9/14/2020 10:56:18 AM

CARDINAL Laboratories

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

August 23, 2019

NATALIE GLADDEN

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: STATE L'A

Enclosed are the results of analyses for samples received by the laboratory on 08/22/19 10:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	08/22/2019	Sampling Date:	08/20/2019
Reported:	08/23/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	VANGUARD/ GRIZZLY		

Sample ID: SW E - 1 (H902886-01)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2019	ND	1.77	88.5	2.00	6.43	
Toluene*	<0.050	0.050	08/22/2019	ND	1.92	95.9	2.00	5.38	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	2.05	103	2.00	4.68	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	6.10	102	6.00	4.65	
Total BTEX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *92.2 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1040**	16.0	08/23/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2019	ND	197	98.3	200	4.83	
DRO >C10-C28*	<10.0	10.0	08/22/2019	ND	194	96.8	200	5.00	
EXT DRO >C28-C36	<10.0	10.0	08/22/2019	ND					

Surrogate: 1-Chlorooctane *100 %* *41-142*

Surrogate: 1-Chlorooctadecane *107 %* *37.6-147*

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Analytical Results For:

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

Received:	08/22/2019	Sampling Date:	08/20/2019
Reported:	08/23/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	VANGUARD/ GRIZZLY		

Sample ID: SW W - 1 (H902886-02)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2019	ND	1.77	88.5	2.00	6.43	
Toluene*	<0.050	0.050	08/22/2019	ND	1.92	95.9	2.00	5.38	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	2.05	103	2.00	4.68	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	6.10	102	6.00	4.65	
Total BTEX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *89.6 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**768**	16.0	08/23/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2019	ND	197	98.3	200	4.83	
DRO >C10-C28*	<10.0	10.0	08/22/2019	ND	194	96.8	200	5.00	
EXT DRO >C28-C36	<10.0	10.0	08/22/2019	ND					

Surrogate: 1-Chlorooctane *109 %* *41-142*

Surrogate: 1-Chlorooctadecane *117 %* *37.6-147*

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Analytical Results For:

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

Received:	08/22/2019	Sampling Date:	08/20/2019
Reported:	08/23/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	VANGUARD/ GRIZZLY		

Sample ID: SW S - 1 (H902886-03)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2019	ND	1.77	88.5	2.00	6.43	
Toluene*	<0.050	0.050	08/22/2019	ND	1.92	95.9	2.00	5.38	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	2.05	103	2.00	4.68	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	6.10	102	6.00	4.65	
Total BTEX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *89.1 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2240**	16.0	08/23/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2019	ND	197	98.3	200	4.83	
DRO >C10-C28*	**142**	10.0	08/22/2019	ND	194	96.8	200	5.00	
EXT DRO >C28-C36	**98.9**	10.0	08/22/2019	ND					

Surrogate: 1-Chlorooctane *110 %* *41-142*

Surrogate: 1-Chlorooctadecane *129 %* *37.6-147*

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Analytical Results For:

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

Received:	08/22/2019	Sampling Date:	08/20/2019
Reported:	08/23/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	VANGUARD/ GRIZZLY		

Sample ID: SW N - 1 (H902886-04)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2019	ND	1.77	88.5	2.00	6.43	
Toluene*	<0.050	0.050	08/22/2019	ND	1.92	95.9	2.00	5.38	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	2.05	103	2.00	4.68	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	6.10	102	6.00	4.65	
Total BTEX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *89.8 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	08/23/2019	ND	432	108	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2019	ND	197	98.3	200	4.83	
DRO >C10-C28*	<10.0	10.0	08/22/2019	ND	194	96.8	200	5.00	
EXT DRO >C28-C36	<10.0	10.0	08/22/2019	ND					

Surrogate: 1-Chlorooctane *113 %* *41-142*

Surrogate: 1-Chlorooctadecane *123 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:	08/22/2019	Sampling Date:	08/20/2019
Reported:	08/23/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	VANGUARD/ GRIZZLY		

Sample ID: CLOSURE 1 - SP 1 (H902886-05)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2019	ND	1.77	88.5	2.00	6.43	
Toluene*	<0.050	0.050	08/22/2019	ND	1.92	95.9	2.00	5.38	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	2.05	103	2.00	4.68	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	6.10	102	6.00	4.65	
Total BTEX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *87.8 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2120**	16.0	08/23/2019	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	08/22/2019	ND	197	98.3	200	4.83	
DRO >C10-C28*	**2650**	50.0	08/22/2019	ND	194	96.8	200	5.00	
EXT DRO >C28-C36	**1500**	50.0	08/22/2019	ND					

Surrogate: 1-Chlorooctane *112 %* *41-142*

Surrogate: 1-Chlorooctadecane *248 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

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

Received:	08/22/2019	Sampling Date:	08/20/2019
Reported:	08/23/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	VANGUARD/ GRIZZLY		

Sample ID: CLOSURE 1 - SP 2 (H902886-06)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2019	ND	1.77	88.5	2.00	6.43	
Toluene*	<0.050	0.050	08/22/2019	ND	1.92	95.9	2.00	5.38	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	2.05	103	2.00	4.68	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	6.10	102	6.00	4.65	
Total BTEX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *90.5 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**976**	16.0	08/23/2019	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2019	ND	197	98.3	200	4.83	
DRO >C10-C28*	**1260**	10.0	08/23/2019	ND	194	96.8	200	5.00	
EXT DRO >C28-C36	**597**	10.0	08/23/2019	ND					

Surrogate: 1-Chlorooctane *107 %* *41-142*

Surrogate: 1-Chlorooctadecane *168 %* *37.6-147*

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Analytical Results For:

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

Received:	08/22/2019	Sampling Date:	08/20/2019
Reported:	08/23/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	VANGUARD/ GRIZZLY		

Sample ID: CLOSURE 1 - SP 3 (H902886-07)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2019	ND	1.77	88.5	2.00	6.43	
Toluene*	<0.050	0.050	08/23/2019	ND	1.92	95.9	2.00	5.38	
Ethylbenzene*	<0.050	0.050	08/23/2019	ND	2.05	103	2.00	4.68	
Total Xylenes*	<0.150	0.150	08/23/2019	ND	6.10	102	6.00	4.65	
Total BTEX	<0.300	0.300	08/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *93.4 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**544**	16.0	08/23/2019	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	08/22/2019	ND	197	98.3	200	4.83	
DRO >C10-C28*	**4840**	50.0	08/22/2019	ND	194	96.8	200	5.00	
EXT DRO >C28-C36	**1960**	50.0	08/22/2019	ND					

Surrogate: 1-Chlorooctane *124 %* *41-142*

Surrogate: 1-Chlorooctadecane *313 %* *37.6-147*

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Analytical Results For:

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Fax To: (505) 391-4585

Received:	08/22/2019	Sampling Date:	08/20/2019
Reported:	08/23/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	VANGUARD/ GRIZZLY		

Sample ID: CLOSURE 1 - SP 4 (H902886-08)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2019	ND	1.77	88.5	2.00	6.43	
Toluene*	<0.050	0.050	08/23/2019	ND	1.92	95.9	2.00	5.38	
Ethylbenzene*	<0.050	0.050	08/23/2019	ND	2.05	103	2.00	4.68	
Total Xylenes*	<0.150	0.150	08/23/2019	ND	6.10	102	6.00	4.65	
Total BTEX	<0.300	0.300	08/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *91.5 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**464**	16.0	08/23/2019	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2019	ND	197	98.3	200	4.83	
DRO >C10-C28*	**1180**	10.0	08/22/2019	ND	194	96.8	200	5.00	
EXT DRO >C28-C36	**404**	10.0	08/22/2019	ND					

Surrogate: 1-Chlorooctane *111 %* *41-142*

Surrogate: 1-Chlorooctadecane *161 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:	08/22/2019	Sampling Date:	08/20/2019
Reported:	08/23/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	VANGUARD/ GRIZZLY		

Sample ID: CLOSURE 1 - SP 5 (H902886-09)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2019	ND	1.77	88.5	2.00	6.43	
Toluene*	<0.050	0.050	08/23/2019	ND	1.92	95.9	2.00	5.38	
Ethylbenzene*	<0.050	0.050	08/23/2019	ND	2.05	103	2.00	4.68	
Total Xylenes*	<0.150	0.150	08/23/2019	ND	6.10	102	6.00	4.65	
Total BTEX	<0.300	0.300	08/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.4 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**448**	16.0	08/23/2019	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2019	ND	197	98.3	200	4.83	
DRO >C10-C28*	**998**	10.0	08/22/2019	ND	194	96.8	200	5.00	
EXT DRO >C28-C36	**331**	10.0	08/22/2019	ND					

Surrogate: 1-Chlorooctane *86.7 %* *41-142*

Surrogate: 1-Chlorooctadecane *126 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	08/22/2019	Sampling Date:	08/20/2019
Reported:	08/23/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	VANGUARD/ GRIZZLY		

Sample ID: COMP 1 (H902886-10)

BTEX 8021B mg/kg Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2019	ND	1.77	88.5	2.00	6.43	
Toluene*	<0.050	0.050	08/23/2019	ND	1.92	95.9	2.00	5.38	
Ethylbenzene*	<0.050	0.050	08/23/2019	ND	2.05	103	2.00	4.68	
Total Xylenes*	<0.150	0.150	08/23/2019	ND	6.10	102	6.00	4.65	
Total BTEX	<0.300	0.300	08/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *91.5 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**576**	16.0	08/23/2019	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2019	ND	197	98.3	200	4.83	
DRO >C10-C28*	**1920**	10.0	08/23/2019	ND	194	96.8	200	5.00	
EXT DRO >C28-C36	**729**	10.0	08/23/2019	ND					

Surrogate: 1-Chlorooctane *106 %* *41-142*

Surrogate: 1-Chlorooctadecane *193 %* *37.6-147*

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Analytical Results For:

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

Received:	08/22/2019	Sampling Date:	08/21/2019
Reported:	08/23/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	VANGUARD/ GRIZZLY		

Sample ID: CLOSURE 2 - SW 1 (H902886-11)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2019	ND	1.71	85.5	2.00	4.72	
Toluene*	<0.050	0.050	08/22/2019	ND	1.88	94.0	2.00	4.28	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	1.93	96.3	2.00	5.20	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	5.86	97.7	6.00	5.87	
Total BTEX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *107 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	08/23/2019	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2019	ND	197	98.3	200	4.83	
DRO >C10-C28*	<10.0	10.0	08/22/2019	ND	194	96.8	200	5.00	
EXT DRO >C28-C36	<10.0	10.0	08/22/2019	ND					

Surrogate: 1-Chlorooctane *109 %* *41-142*

Surrogate: 1-Chlorooctadecane *117 %* *37.6-147*

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Analytical Results For:

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

Received:	08/22/2019	Sampling Date:	08/21/2019
Reported:	08/23/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	VANGUARD/ GRIZZLY		

Sample ID: CLOSURE 2 - SW 2 (H902886-12)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2019	ND	1.71	85.5	2.00	4.72	
Toluene*	<0.050	0.050	08/22/2019	ND	1.88	94.0	2.00	4.28	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	1.93	96.3	2.00	5.20	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	5.86	97.7	6.00	5.87	
Total BTEX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/23/2019	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2019	ND	197	98.3	200	4.83	
DRO >C10-C28*	<10.0	10.0	08/22/2019	ND	194	96.8	200	5.00	
EXT DRO >C28-C36	<10.0	10.0	08/22/2019	ND					

Surrogate: 1-Chlorooctane *111 %* *41-142*

Surrogate: 1-Chlorooctadecane *120 %* *37.6-147*

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Analytical Results For:

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

Received:	08/22/2019	Sampling Date:	08/21/2019
Reported:	08/23/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	VANGUARD/ GRIZZLY		

Sample ID: CLOSURE 2 - SW 3 (H902886-13)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2019	ND	1.71	85.5	2.00	4.72	
Toluene*	<0.050	0.050	08/22/2019	ND	1.88	94.0	2.00	4.28	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	1.93	96.3	2.00	5.20	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	5.86	97.7	6.00	5.87	
Total BTEX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *106 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/23/2019	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2019	ND	197	98.3	200	4.83	
DRO >C10-C28*	<10.0	10.0	08/22/2019	ND	194	96.8	200	5.00	
EXT DRO >C28-C36	<10.0	10.0	08/22/2019	ND					

Surrogate: 1-Chlorooctane *112 %* *41-142*

Surrogate: 1-Chlorooctadecane *121 %* *37.6-147*

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Analytical Results For:

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

Received:	08/22/2019	Sampling Date:	08/21/2019
Reported:	08/23/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	VANGUARD/ GRIZZLY		

Sample ID: CLOSURE 2 - SW 4 (H902886-14)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2019	ND	1.71	85.5	2.00	4.72	
Toluene*	<0.050	0.050	08/22/2019	ND	1.88	94.0	2.00	4.28	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	1.93	96.3	2.00	5.20	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	5.86	97.7	6.00	5.87	
Total BTEX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *106 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/23/2019	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2019	ND	197	98.3	200	4.83	
DRO >C10-C28*	<10.0	10.0	08/22/2019	ND	194	96.8	200	5.00	
EXT DRO >C28-C36	<10.0	10.0	08/22/2019	ND					

Surrogate: 1-Chlorooctane *113 %* *41-142*

Surrogate: 1-Chlorooctadecane *123 %* *37.6-147*

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Analytical Results For:

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

Received:	08/22/2019	Sampling Date:	08/21/2019
Reported:	08/23/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	VANGUARD/ GRIZZLY		

Sample ID: CLOSURE 2 - SP 1 (H902886-15)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2019	ND	1.71	85.5	2.00	4.72	
Toluene*	<0.050	0.050	08/22/2019	ND	1.88	94.0	2.00	4.28	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	1.93	96.3	2.00	5.20	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	5.86	97.7	6.00	5.87	
Total BTEX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *107 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1760**	16.0	08/23/2019	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2019	ND	197	98.3	200	4.83	
DRO >C10-C28*	**2060**	10.0	08/23/2019	ND	194	96.8	200	5.00	
EXT DRO >C28-C36	**1200**	10.0	08/23/2019	ND					

Surrogate: 1-Chlorooctane *115 %* *41-142*

Surrogate: 1-Chlorooctadecane *199 %* *37.6-147*

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Analytical Results For:

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

Received:	08/22/2019	Sampling Date:	08/21/2019
Reported:	08/23/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	VANGUARD/ GRIZZLY		

Sample ID: CLOSURE 2 - SP 2 (H902886-16)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2019	ND	1.71	85.5	2.00	4.72	
Toluene*	<0.050	0.050	08/22/2019	ND	1.88	94.0	2.00	4.28	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	1.93	96.3	2.00	5.20	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	5.86	97.7	6.00	5.87	
Total BTEX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *106 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1870**	16.0	08/23/2019	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2019	ND	197	98.3	200	4.83	
DRO >C10-C28*	**2350**	10.0	08/23/2019	ND	194	96.8	200	5.00	
EXT DRO >C28-C36	**1390**	10.0	08/23/2019	ND					

Surrogate: 1-Chlorooctane *113 %* *41-142*

Surrogate: 1-Chlorooctadecane *207 %* *37.6-147*

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Analytical Results For:

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

Received:	08/22/2019	Sampling Date:	08/21/2019
Reported:	08/23/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	VANGUARD/ GRIZZLY		

Sample ID: CLOSURE 2 - SP 3 (H902886-17)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2019	ND	1.71	85.5	2.00	4.72	
Toluene*	<0.050	0.050	08/22/2019	ND	1.88	94.0	2.00	4.28	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	1.93	96.3	2.00	5.20	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	5.86	97.7	6.00	5.87	
Total BTEX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**640**	16.0	08/23/2019	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2019	ND	197	98.3	200	4.83	
DRO >C10-C28*	**1430**	10.0	08/23/2019	ND	194	96.8	200	5.00	
EXT DRO >C28-C36	**701**	10.0	08/23/2019	ND					

Surrogate: 1-Chlorooctane *104 %* *41-142*

Surrogate: 1-Chlorooctadecane *164 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

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

Analytical Results For:

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

Received:	08/22/2019	Sampling Date:	08/21/2019
Reported:	08/23/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	VANGUARD/ GRIZZLY		

Sample ID: CLOSURE 2 - SP 4 (H902886-18)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2019	ND	1.71	85.5	2.00	4.72	
Toluene*	<0.050	0.050	08/22/2019	ND	1.88	94.0	2.00	4.28	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	1.93	96.3	2.00	5.20	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	5.86	97.7	6.00	5.87	
Total BTEX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *107 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**560**	16.0	08/23/2019	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2019	ND	197	98.3	200	4.83	
DRO >C10-C28*	**1190**	10.0	08/23/2019	ND	194	96.8	200	5.00	
EXT DRO >C28-C36	**600**	10.0	08/23/2019	ND					

Surrogate: 1-Chlorooctane *105 %* *41-142*

Surrogate: 1-Chlorooctadecane *168 %* *37.6-147*

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

Received:	08/22/2019	Sampling Date:	08/21/2019
Reported:	08/23/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	VANGUARD/ GRIZZLY		

Sample ID: CLOSURE 2 - SP 5 (H902886-19)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2019	ND	1.71	85.5	2.00	4.72	
Toluene*	<0.050	0.050	08/22/2019	ND	1.88	94.0	2.00	4.28	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	1.93	96.3	2.00	5.20	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	5.86	97.7	6.00	5.87	
Total BTEX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1020**	16.0	08/23/2019	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	08/22/2019	ND	197	98.3	200	4.83	
DRO >C10-C28*	**935**	50.0	08/22/2019	ND	194	96.8	200	5.00	
EXT DRO >C28-C36	**399**	50.0	08/22/2019	ND					

Surrogate: 1-Chlorooctane *89.8 %* *41-142*

Surrogate: 1-Chlorooctadecane *145 %* *37.6-147*

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Analytical Results For:

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

Received:	08/22/2019	Sampling Date:	08/21/2019
Reported:	08/23/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	VANGUARD/ GRIZZLY		

Sample ID: COMP 2 (H902886-20)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2019	ND	1.71	85.5	2.00	4.72	
Toluene*	<0.050	0.050	08/22/2019	ND	1.88	94.0	2.00	4.28	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	1.93	96.3	2.00	5.20	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	5.86	97.7	6.00	5.87	
Total BTEX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**848**	16.0	08/23/2019	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2019	ND	212	106	200	3.55	
DRO >C10-C28*	**1460**	10.0	08/23/2019	ND	215	108	200	4.61	
EXT DRO >C28-C36	**869**	10.0	08/23/2019	ND					

Surrogate: 1-Chlorooctane *90.5 %* *41-142*

Surrogate: 1-Chlorooctadecane *161 %* *37.6-147*

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Analytical Results For:

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

Received:	08/22/2019	Sampling Date:	08/21/2019
Reported:	08/23/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	VANGUARD/ GRIZZLY		

Sample ID: CLOSURE 3 - SW 1 (H902886-21)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2019	ND	1.71	85.5	2.00	4.72	
Toluene*	<0.050	0.050	08/22/2019	ND	1.88	94.0	2.00	4.28	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	1.93	96.3	2.00	5.20	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	5.86	97.7	6.00	5.87	
Total BTEX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/23/2019	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2019	ND	212	106	200	3.55	
DRO >C10-C28*	<10.0	10.0	08/22/2019	ND	215	108	200	4.61	
EXT DRO >C28-C36	<10.0	10.0	08/22/2019	ND					

Surrogate: 1-Chlorooctane *100 %* *41-142*

Surrogate: 1-Chlorooctadecane *110 %* *37.6-147*

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Analytical Results For:

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

Received:	08/22/2019	Sampling Date:	08/21/2019
Reported:	08/23/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	VANGUARD/ GRIZZLY		

Sample ID: CLOSURE 3 - SW 2 (H902886-22)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2019	ND	1.71	85.5	2.00	4.72	
Toluene*	<0.050	0.050	08/22/2019	ND	1.88	94.0	2.00	4.28	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	1.93	96.3	2.00	5.20	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	5.86	97.7	6.00	5.87	
Total BTEX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *105 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/23/2019	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2019	ND	212	106	200	3.55	
DRO >C10-C28*	<10.0	10.0	08/22/2019	ND	215	108	200	4.61	
EXT DRO >C28-C36	<10.0	10.0	08/22/2019	ND					

Surrogate: 1-Chlorooctane *103 %* *41-142*

Surrogate: 1-Chlorooctadecane *111 %* *37.6-147*

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Analytical Results For:

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

Received:	08/22/2019	Sampling Date:	08/21/2019
Reported:	08/23/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	VANGUARD/ GRIZZLY		

Sample ID: CLOSURE 3 - SW 3 (H902886-23)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2019	ND	1.71	85.5	2.00	4.72	
Toluene*	<0.050	0.050	08/22/2019	ND	1.88	94.0	2.00	4.28	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	1.93	96.3	2.00	5.20	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	5.86	97.7	6.00	5.87	
Total BTEX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/23/2019	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2019	ND	212	106	200	3.55	
DRO >C10-C28*	<10.0	10.0	08/22/2019	ND	215	108	200	4.61	
EXT DRO >C28-C36	<10.0	10.0	08/22/2019	ND					

Surrogate: 1-Chlorooctane *103 %* *41-142*

Surrogate: 1-Chlorooctadecane *113 %* *37.6-147*

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Analytical Results For:

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

Received:	08/22/2019	Sampling Date:	08/21/2019
Reported:	08/23/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	VANGUARD/ GRIZZLY		

Sample ID: CLOSURE 3 - SW 4 (H902886-24)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2019	ND	1.71	85.5	2.00	4.72	
Toluene*	<0.050	0.050	08/22/2019	ND	1.88	94.0	2.00	4.28	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	1.93	96.3	2.00	5.20	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	5.86	97.7	6.00	5.87	
Total BTEX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	08/23/2019	ND	416	104	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2019	ND	212	106	200	3.55	
DRO >C10-C28*	<10.0	10.0	08/22/2019	ND	215	108	200	4.61	
EXT DRO >C28-C36	<10.0	10.0	08/22/2019	ND					

Surrogate: 1-Chlorooctane *99.1 %* *41-142*

Surrogate: 1-Chlorooctadecane *108 %* *37.6-147*

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Fax To: (505) 391-4585

Received:	08/22/2019	Sampling Date:	08/21/2019
Reported:	08/23/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	VANGUARD/ GRIZZLY		

Sample ID: CLOSURE 3 - SP 1 (H902886-25)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2019	ND	1.71	85.5	2.00	4.72	
Toluene*	<0.050	0.050	08/22/2019	ND	1.88	94.0	2.00	4.28	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	1.93	96.3	2.00	5.20	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	5.86	97.7	6.00	5.87	
Total BTEX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**768**	16.0	08/23/2019	ND	416	104	400	3.77	QM-07

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2019	ND	212	106	200	3.55	
DRO >C10-C28*	**241**	10.0	08/22/2019	ND	215	108	200	4.61	
EXT DRO >C28-C36	**230**	10.0	08/22/2019	ND					

Surrogate: 1-Chlorooctane *103 %* *41-142*

Surrogate: 1-Chlorooctadecane *130 %* *37.6-147*

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NATALIE GLADDEN
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Hobbs NM, 88240
Fax To: (505) 391-4585

Received:	08/22/2019	Sampling Date:	08/21/2019
Reported:	08/23/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	VANGUARD/ GRIZZLY		

Sample ID: CLOSURE 3 - SP 2 (H902886-26)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2019	ND	1.71	85.5	2.00	4.72	
Toluene*	<0.050	0.050	08/22/2019	ND	1.88	94.0	2.00	4.28	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	1.93	96.3	2.00	5.20	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	5.86	97.7	6.00	5.87	
Total BTEX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**848**	16.0	08/23/2019	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2019	ND	212	106	200	3.55	
DRO >C10-C28*	**244**	10.0	08/22/2019	ND	215	108	200	4.61	
EXT DRO >C28-C36	**230**	10.0	08/22/2019	ND					

Surrogate: 1-Chlorooctane *99.9 %* *41-142*

Surrogate: 1-Chlorooctadecane *130 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	08/22/2019	Sampling Date:	08/21/2019
Reported:	08/23/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	VANGUARD/ GRIZZLY		

Sample ID: CLOSURE 3 - SP 3 (H902886-27)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2019	ND	1.71	85.5	2.00	4.72	
Toluene*	<0.050	0.050	08/22/2019	ND	1.88	94.0	2.00	4.28	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	1.93	96.3	2.00	5.20	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	5.86	97.7	6.00	5.87	
Total BTEX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *101 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1040**	16.0	08/23/2019	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2019	ND	212	106	200	3.55	
DRO >C10-C28*	**223**	10.0	08/22/2019	ND	215	108	200	4.61	
EXT DRO >C28-C36	**229**	10.0	08/22/2019	ND					

Surrogate: 1-Chlorooctane *96.6 %* *41-142*

Surrogate: 1-Chlorooctadecane *122 %* *37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	08/22/2019	Sampling Date:	08/21/2019
Reported:	08/23/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	VANGUARD/ GRIZZLY		

Sample ID: CLOSURE 3 - SP 4 (H902886-28)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2019	ND	1.71	85.5	2.00	4.72	
Toluene*	<0.050	0.050	08/22/2019	ND	1.88	94.0	2.00	4.28	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	1.93	96.3	2.00	5.20	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	5.86	97.7	6.00	5.87	
Total BTEX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**784**	16.0	08/23/2019	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2019	ND	212	106	200	3.55	
DRO >C10-C28*	**382**	10.0	08/22/2019	ND	215	108	200	4.61	
EXT DRO >C28-C36	**350**	10.0	08/22/2019	ND					

Surrogate: 1-Chlorooctane *102 %* *41-142*

Surrogate: 1-Chlorooctadecane *120 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	08/22/2019	Sampling Date:	08/21/2019
Reported:	08/23/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	VANGUARD/ GRIZZLY		

Sample ID: CLOSURE 3 - SP 5 (H902886-29)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2019	ND	1.71	85.5	2.00	4.72	
Toluene*	<0.050	0.050	08/22/2019	ND	1.88	94.0	2.00	4.28	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	1.93	96.3	2.00	5.20	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	5.86	97.7	6.00	5.87	
Total BTEX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**576**	16.0	08/23/2019	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2019	ND	212	106	200	3.55	
DRO >C10-C28*	**394**	10.0	08/22/2019	ND	215	108	200	4.61	
EXT DRO >C28-C36	**339**	10.0	08/22/2019	ND					

Surrogate: 1-Chlorooctane *97.8 %* *41-142*

Surrogate: 1-Chlorooctadecane *116 %* *37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	08/22/2019	Sampling Date:	08/21/2019
Reported:	08/23/2019	Sampling Type:	Soil
Project Name:	STATE L'A	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	VANGUARD/ GRIZZLY		

Sample ID: COMP 3 (H902886-30)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2019	ND	1.71	85.5	2.00	4.72	
Toluene*	<0.050	0.050	08/22/2019	ND	1.88	94.0	2.00	4.28	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	1.93	96.3	2.00	5.20	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	5.86	97.7	6.00	5.87	
Total BTEX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**912**	16.0	08/23/2019	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2019	ND	212	106	200	3.55	
DRO >C10-C28*	**287**	10.0	08/22/2019	ND	215	108	200	4.61	
EXT DRO >C28-C36	**302**	10.0	08/22/2019	ND					

Surrogate: 1-Chlorooctane *87.9 %* *41-142*

Surrogate: 1-Chlorooctadecane *141 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager

1083 Rusn

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Vanguard / Grizzly	BILL TO		ANALYSIS REQUEST
Project Manager:	P.O. #:		
Address:	Company: Hungry-Horse		
City: State: Zip:	Attn:		
Phone #: Fax #:	Address: 4024 plains Hwy		
Project #: Project Owner:	City: Lovington		
Project Name:	State: NM Zip: 88260		
Project Location: State L'A	Phone #:		
Sampler Name:	Fax #:		

FOR LAB USE ONLY			MATRIX							PRESERV.			SAMPLING				
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chlorides	BTEX	TPH
H902886																	
1	SWE-1	G	1			X					X		8-20-19	8:55	X	X	X
2	SWW-1	G	1			X					X			8:53	X	X	X
3	SWS-1	G	1			X					X			9:16	X	X	X
4	SWN-1	G	1			X					X			9:26	X	X	X
5	Closure 1 - SP1	G	1			X					X			1:30	X	X	X
6	" SP2	G	1			X					X			1:30	X	X	X
7	" SP3	G	1			X					X			2:14	X	X	X
8	" SP4	G	1			X					X			2:27	X	X	X
9	" SP5	G	1			X					X			2:40	X	X	X
10	Comp1	G	1			X					X			3:12	X	X	X

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Relinquished By: Kathym Montanez	Date: 9/22/19	Received By: Jodi Henson	Phone Result: ☐ Yes ☐ No	Add'l Phone #:
	Time: 10:40		Fax Result: ☐ Yes ☐ No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: Kmontanez@Hungry-Horse.com	
	Time:		nGladden@Hungry-Horse.com.	
Delivered By: (Circle One) 1.8° #97	Sample Condition Cool Intact	CHECKED BY: (Initials)		
Sampler - UPS - Bus - Other: Corrected 2.2°	☐ Yes ☐ Yes ☐ No ☐ No			

Received by OCD: 9/14/2020 10:56:18 AM

2 of 3

Rush

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Vanguard/Grizzly	**BILL TO** P.O. #:
Project Manager:	Company:
Address:	Attn:
City: State: Zip:	Address:
Phone #: Fax #:	City:
Project #: Project Owner:	State: Zip:
Project Name:	Phone #:
Project Location: State LA	Fax #:
Sampler Name: DS	

ANALYSIS REQUEST: Chlorides, BTEX, TPH

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME
H902886 11	Closure 2-SW1	G	1			X					X		8-21-19	8:00
12	Closure 2-SW2	G	1			X					X			8:12
13	Closure 2-SW3	G	1			X					X			8:21
14	Closure 2-SW4	G	1			X					X			8:29
15	Closure 2-SP1	G	1			X					X			8:35
16	Closure 2-SP2	G	1			X					X			8:48
17	Closure 2-SP3	G	1			X					X			8:57
18	Closure 2-SP4	G	1			X					X			9:07
19	Closure 2-SP5	G	1			X					X			9:16
20	Comp 2	G	1			X					X			9:27

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Relinquished By: Katlyn Montanez	Date: 8/22/19 Time: 10:40	Received By: Jodi Henson	
Relinquished By:	Date: Time:	Received By:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	1.8° #97 Corrected 2.2°	Sample Condition Cool: Yes / No Intact: Yes / No	CHECKED BY: (Initials)

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS:
Kmontanez@Hungry-Horse.com
nGladden@Hungry-Horse.com

Received by OCD: 9/14/2020 10:56:18 AM

Page 160 of 287

CARDINAL Laboratories

3 of 3 Rush

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Vanguard / Grizzly	**BILL TO** P.O. #:
Project Manager:	Company:
Address:	Attn:
City: State: Zip:	Address:
Phone #: Fax #:	City:
Project #: Project Owner:	State: Zip:
Project Name:	Phone #:
Project Location: State CA	Fax #:
Sampler Name:	

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	ANALYSIS REQUEST: Chlorides	BTEX	TPH
H902886																	
21	Closure 3-SW1	G	1			X					X		8-2-19	9:45	X	X	X
22	Closure 3-SW2	G	1			X					X			9:58			
23	Closure 3-SW3	G	1			X					X			10:10			
24	Closure 3-SW4	G	1			X					X			10:22			
25	Closure 3-SP1	G	1			X					X			10:43			
26	Closure 3-SP2	G	1			X					X			10:49			
27	Closure 3-SP3	G	1			X					X			11:00			
28	Closure 3-SP4	G	1			X					X			11:09			
29	Closure 3-SP5	G	1			X					X			11:18			
30	Comp 3	G	1			X					X			11:32			

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Relinquished By: Kaitlyn Montanez	Date: 8/22/19 Time: 10:40	Received By: Jodi Henson	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	1.8° #97 Corrected 2.2°	Sample Condition Cool: ☑ Yes ☐ No Intact: ☐ Yes ☐ No	CHECKED BY: (Initials)

REMARKS: kmontanez@Hungry-Horse.com
mgladden@Hungry-Horse.com

Received by OCD: 9/14/2020 10:56:18 AM

CARDINAL Laboratories

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

December 11, 2019

LANCE CRENSHAW

Etech Environmental & Safety Solutions

P.O. Box 301

Lovington, NM 88260

RE: STATE LA TR 1.2

Enclosed are the results of analyses for samples received by the laboratory on 12/06/19 15:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
LANCE CRENSHAW
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received:	12/06/2019	Sampling Date:	12/05/2019
Reported:	12/11/2019	Sampling Type:	Soil
Project Name:	STATE LA TR 1.2	Sampling Condition:	Cool & Intact
Project Number:	11510	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY - LEA CO NM		

Sample ID: SP # 1 @ 2' (H904097-01)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	ND	1.74	87.1	2.00	12.2	
Toluene*	**0.203**	0.050	12/10/2019	ND	1.69	84.7	2.00	12.9	
Ethylbenzene*	**0.247**	0.050	12/10/2019	ND	1.73	86.5	2.00	12.5	
Total Xylenes*	**0.473**	0.150	12/10/2019	ND	5.25	87.4	6.00	12.4	
Total BTEX	**0.923**	0.300	12/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1840**	16.0	12/10/2019	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	225	113	200	1.94	
DRO >C10-C28*	**227**	10.0	12/10/2019	ND	228	114	200	3.10	
EXT DRO >C28-C36	**175**	10.0	12/10/2019	ND					

Surrogate: 1-Chlorooctane *92.8 %* *41-142*

Surrogate: 1-Chlorooctadecane *113 %* *37.6-147*

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Analytical Results For:

Etech Environmental & Safety Solutions
LANCE CRENSHAW
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received:	12/06/2019	Sampling Date:	12/05/2019
Reported:	12/11/2019	Sampling Type:	Soil
Project Name:	STATE LA TR 1.2	Sampling Condition:	Cool & Intact
Project Number:	11510	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY - LEA CO NM		

Sample ID: SP # 2 @ 2' (H904097-02)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**0.058**	0.050	12/10/2019	ND	1.74	87.1	2.00	12.2	
Toluene*	**1.22**	0.050	12/10/2019	ND	1.69	84.7	2.00	12.9	
Ethylbenzene*	**0.953**	0.050	12/10/2019	ND	1.73	86.5	2.00	12.5	
Total Xylenes*	**1.45**	0.150	12/10/2019	ND	5.25	87.4	6.00	12.4	
Total BTEX	**3.67**	0.300	12/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.5 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**272**	16.0	12/10/2019	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**17.7**	10.0	12/11/2019	ND	225	113	200	1.94	
DRO >C10-C28*	**831**	10.0	12/11/2019	ND	228	114	200	3.10	
EXT DRO >C28-C36	**714**	10.0	12/11/2019	ND					

Surrogate: 1-Chlorooctane *102 %* *41-142*

Surrogate: 1-Chlorooctadecane *169 %* *37.6-147*

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Fax To: (575) 396-1429

Received:	12/06/2019	Sampling Date:	12/05/2019
Reported:	12/11/2019	Sampling Type:	Soil
Project Name:	STATE LA TR 1.2	Sampling Condition:	Cool & Intact
Project Number:	11510	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY - LEA CO NM		

Sample ID: SP # 3 @ 2' (H904097-03)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**17.2**	1.00	12/10/2019	ND	1.74	87.1	2.00	12.2	
Toluene*	**111**	1.00	12/10/2019	ND	1.69	84.7	2.00	12.9	
Ethylbenzene*	**86.9**	1.00	12/10/2019	ND	1.73	86.5	2.00	12.5	
Total Xylenes*	**134**	3.00	12/10/2019	ND	5.25	87.4	6.00	12.4	
Total BTEX	**350**	6.00	12/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *126 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**848**	16.0	12/10/2019	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**4810**	50.0	12/10/2019	ND	225	113	200	1.94	
DRO >C10-C28*	**27100**	50.0	12/10/2019	ND	228	114	200	3.10	
EXT DRO >C28-C36	**5730**	50.0	12/10/2019	ND					

Surrogate: 1-Chlorooctane *326 %* *41-142*

Surrogate: 1-Chlorooctadecane *767 %* *37.6-147*

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Fax To: (575) 396-1429

Received:	12/06/2019	Sampling Date:	12/05/2019
Reported:	12/11/2019	Sampling Type:	Soil
Project Name:	STATE LA TR 1.2	Sampling Condition:	Cool & Intact
Project Number:	11510	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY - LEA CO NM		

Sample ID: SP # 4 @ 2' (H904097-04)

BTEX 8021B mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**0.155**	0.050	12/10/2019	ND	1.74	87.1	2.00	12.2	
Toluene*	**3.70**	0.050	12/10/2019	ND	1.69	84.7	2.00	12.9	
Ethylbenzene*	**4.73**	0.050	12/10/2019	ND	1.73	86.5	2.00	12.5	
Total Xylenes*	**9.99**	0.150	12/10/2019	ND	5.25	87.4	6.00	12.4	
Total BTEX	**18.6**	0.300	12/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *208 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	12/10/2019	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**190**	10.0	12/10/2019	ND	225	113	200	1.94	
DRO >C10-C28*	**1190**	10.0	12/10/2019	ND	228	114	200	3.10	
EXT DRO >C28-C36	**192**	10.0	12/10/2019	ND					

Surrogate: 1-Chlorooctane *133 %* *41-142*

Surrogate: 1-Chlorooctadecane *141 %* *37.6-147*

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Received:	12/06/2019	Sampling Date:	12/05/2019
Reported:	12/11/2019	Sampling Type:	Soil
Project Name:	STATE LA TR 1.2	Sampling Condition:	Cool & Intact
Project Number:	11510	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY - LEA CO NM		

Sample ID: SP # 5 @ 2' (H904097-05)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	ND	1.74	87.1	2.00	12.2	
Toluene*	**0.277**	0.050	12/10/2019	ND	1.69	84.7	2.00	12.9	
Ethylbenzene*	**0.210**	0.050	12/10/2019	ND	1.73	86.5	2.00	12.5	
Total Xylenes*	**0.360**	0.150	12/10/2019	ND	5.25	87.4	6.00	12.4	
Total BTEX	**0.846**	0.300	12/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	12/10/2019	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	225	113	200	1.94	
DRO >C10-C28*	**65.6**	10.0	12/10/2019	ND	228	114	200	3.10	
EXT DRO >C28-C36	**29.4**	10.0	12/10/2019	ND					

Surrogate: 1-Chlorooctane *101 %* *41-142*

Surrogate: 1-Chlorooctadecane *112 %* *37.6-147*

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Fax To: (575) 396-1429

Received:	12/06/2019	Sampling Date:	12/05/2019
Reported:	12/11/2019	Sampling Type:	Soil
Project Name:	STATE LA TR 1.2	Sampling Condition:	Cool & Intact
Project Number:	11510	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY - LEA CO NM		

Sample ID: NH - 1 @ SURFACE (H904097-06)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	ND	1.74	87.1	2.00	12.2	
Toluene*	**0.494**	0.050	12/10/2019	ND	1.69	84.7	2.00	12.9	
Ethylbenzene*	**0.438**	0.050	12/10/2019	ND	1.73	86.5	2.00	12.5	
Total Xylenes*	**0.634**	0.150	12/10/2019	ND	5.25	87.4	6.00	12.4	
Total BTEX	**1.57**	0.300	12/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.4 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	12/10/2019	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	225	113	200	1.94	
DRO >C10-C28*	**12.8**	10.0	12/10/2019	ND	228	114	200	3.10	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					

Surrogate: 1-Chlorooctane *107 %* *41-142*

Surrogate: 1-Chlorooctadecane *114 %* *37.6-147*

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Fax To: (575) 396-1429

Received:	12/06/2019	Sampling Date:	12/05/2019
Reported:	12/11/2019	Sampling Type:	Soil
Project Name:	STATE LA TR 1.2	Sampling Condition:	Cool & Intact
Project Number:	11510	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY - LEA CO NM		

Sample ID: NH - 1 @ 2' (H904097-07)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	ND	1.74	87.1	2.00	12.2	
Toluene*	**0.741**	0.050	12/10/2019	ND	1.69	84.7	2.00	12.9	
Ethylbenzene*	**1.04**	0.050	12/10/2019	ND	1.73	86.5	2.00	12.5	
Total Xylenes*	**1.86**	0.150	12/10/2019	ND	5.25	87.4	6.00	12.4	
Total BTEX	**3.64**	0.300	12/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *100 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	12/10/2019	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**22.0**	10.0	12/10/2019	ND	225	113	200	1.94	
DRO >C10-C28*	**22.0**	10.0	12/10/2019	ND	228	114	200	3.10	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					

Surrogate: 1-Chlorooctane *103 %* *41-142*

Surrogate: 1-Chlorooctadecane *109 %* *37.6-147*

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Fax To: (575) 396-1429

Received:	12/06/2019	Sampling Date:	12/05/2019
Reported:	12/11/2019	Sampling Type:	Soil
Project Name:	STATE LA TR 1.2	Sampling Condition:	Cool & Intact
Project Number:	11510	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY - LEA CO NM		

Sample ID: EH - 1 @ SURFACE (H904097-08)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	ND	1.74	87.1	2.00	12.2	
Toluene*	<0.050	0.050	12/10/2019	ND	1.69	84.7	2.00	12.9	
Ethylbenzene*	<0.050	0.050	12/10/2019	ND	1.73	86.5	2.00	12.5	
Total Xylenes*	<0.150	0.150	12/10/2019	ND	5.25	87.4	6.00	12.4	
Total BTEX	<0.300	0.300	12/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.4 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	12/10/2019	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	225	113	200	1.94	
DRO >C10-C28*	<10.0	10.0	12/10/2019	ND	228	114	200	3.10	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					

Surrogate: 1-Chlorooctane *101 %* *41-142*

Surrogate: 1-Chlorooctadecane *109 %* *37.6-147*

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Received:	12/06/2019	Sampling Date:	12/05/2019
Reported:	12/11/2019	Sampling Type:	Soil
Project Name:	STATE LA TR 1.2	Sampling Condition:	Cool & Intact
Project Number:	11510	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY - LEA CO NM		

Sample ID: EH - 1 @ 2' (H904097-09)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	ND	1.74	87.1	2.00	12.2	
Toluene*	<0.050	0.050	12/10/2019	ND	1.69	84.7	2.00	12.9	
Ethylbenzene*	<0.050	0.050	12/10/2019	ND	1.73	86.5	2.00	12.5	
Total Xylenes*	<0.150	0.150	12/10/2019	ND	5.25	87.4	6.00	12.4	
Total BTEX	<0.300	0.300	12/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.2 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	12/10/2019	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	225	113	200	1.94	
DRO >C10-C28*	<10.0	10.0	12/10/2019	ND	228	114	200	3.10	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					

Surrogate: 1-Chlorooctane *102 %* *41-142*

Surrogate: 1-Chlorooctadecane *109 %* *37.6-147*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

Etech Environmental & Safety Solutions
LANCE CRENSHAW
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received:	12/06/2019	Sampling Date:	12/05/2019
Reported:	12/11/2019	Sampling Type:	Soil
Project Name:	STATE LA TR 1.2	Sampling Condition:	Cool & Intact
Project Number:	11510	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY - LEA CO NM		

Sample ID: EH - 2 B @ SURFACE (H904097-10)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	ND	1.74	87.1	2.00	12.2	
Toluene*	**0.152**	0.050	12/10/2019	ND	1.69	84.7	2.00	12.9	
Ethylbenzene*	**0.052**	0.050	12/10/2019	ND	1.73	86.5	2.00	12.5	
Total Xylenes*	<0.150	0.150	12/10/2019	ND	5.25	87.4	6.00	12.4	
Total BTEX	<0.300	0.300	12/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.1 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**336**	16.0	12/10/2019	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	225	113	200	1.94	
DRO >C10-C28*	**183**	10.0	12/10/2019	ND	228	114	200	3.10	
EXT DRO >C28-C36	**110**	10.0	12/10/2019	ND					

Surrogate: 1-Chlorooctane *103 %* *41-142*

Surrogate: 1-Chlorooctadecane *123 %* *37.6-147*

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Fax To: (575) 396-1429

Received:	12/06/2019	Sampling Date:	12/05/2019
Reported:	12/11/2019	Sampling Type:	Soil
Project Name:	STATE LA TR 1.2	Sampling Condition:	Cool & Intact
Project Number:	11510	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY - LEA CO NM		

Sample ID: EH - 2 B @ 2' (H904097-11)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	ND	1.74	87.1	2.00	12.2	
Toluene*	<0.050	0.050	12/10/2019	ND	1.69	84.7	2.00	12.9	
Ethylbenzene*	<0.050	0.050	12/10/2019	ND	1.73	86.5	2.00	12.5	
Total Xylenes*	<0.150	0.150	12/10/2019	ND	5.25	87.4	6.00	12.4	
Total BTEX	<0.300	0.300	12/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.7 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	12/10/2019	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	225	113	200	1.94	
DRO >C10-C28*	<10.0	10.0	12/10/2019	ND	228	114	200	3.10	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					

Surrogate: 1-Chlorooctane *102 %* *41-142*

Surrogate: 1-Chlorooctadecane *108 %* *37.6-147*

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Fax To: (575) 396-1429

Received:	12/06/2019	Sampling Date:	12/05/2019
Reported:	12/11/2019	Sampling Type:	Soil
Project Name:	STATE LA TR 1.2	Sampling Condition:	Cool & Intact
Project Number:	11510	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY - LEA CO NM		

Sample ID: SH - 1 B @ SURFACE (H904097-12)

BTEX 8021B mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	ND	1.74	87.1	2.00	12.2	
Toluene*	<0.050	0.050	12/10/2019	ND	1.69	84.7	2.00	12.9	
Ethylbenzene*	<0.050	0.050	12/10/2019	ND	1.73	86.5	2.00	12.5	
Total Xylenes*	<0.150	0.150	12/10/2019	ND	5.25	87.4	6.00	12.4	
Total BTEX	<0.300	0.300	12/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *99.6 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**256**	16.0	12/10/2019	ND	400	100	400	7.69	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	225	113	200	1.94	
DRO >C10-C28*	<10.0	10.0	12/10/2019	ND	228	114	200	3.10	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					

Surrogate: 1-Chlorooctane *94.0 %* *41-142*

Surrogate: 1-Chlorooctadecane *99.6 %* *37.6-147*

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Fax To: (575) 396-1429

Received:	12/06/2019	Sampling Date:	12/05/2019
Reported:	12/11/2019	Sampling Type:	Soil
Project Name:	STATE LA TR 1.2	Sampling Condition:	Cool & Intact
Project Number:	11510	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY - LEA CO NM		

Sample ID: SH - 1 B @ 2' (H904097-13)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	ND	1.74	87.1	2.00	12.2	
Toluene*	<0.050	0.050	12/10/2019	ND	1.69	84.7	2.00	12.9	
Ethylbenzene*	<0.050	0.050	12/10/2019	ND	1.73	86.5	2.00	12.5	
Total Xylenes*	<0.150	0.150	12/10/2019	ND	5.25	87.4	6.00	12.4	
Total BTEX	<0.300	0.300	12/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.9 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**208**	16.0	12/10/2019	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	225	113	200	1.94	
DRO >C10-C28*	<10.0	10.0	12/10/2019	ND	228	114	200	3.10	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					

Surrogate: 1-Chlorooctane *98.2 %* *41-142*

Surrogate: 1-Chlorooctadecane *103 %* *37.6-147*

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Fax To: (575) 396-1429

Received:	12/06/2019	Sampling Date:	12/05/2019
Reported:	12/11/2019	Sampling Type:	Soil
Project Name:	STATE LA TR 1.2	Sampling Condition:	Cool & Intact
Project Number:	11510	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY - LEA CO NM		

Sample ID: WH - 1 B @ SURFACE (H904097-14)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	ND	1.74	87.1	2.00	12.2	
Toluene*	<0.050	0.050	12/10/2019	ND	1.69	84.7	2.00	12.9	
Ethylbenzene*	<0.050	0.050	12/10/2019	ND	1.73	86.5	2.00	12.5	
Total Xylenes*	<0.150	0.150	12/10/2019	ND	5.25	87.4	6.00	12.4	
Total BTEX	<0.300	0.300	12/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.9 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**208**	16.0	12/10/2019	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	164	81.9	200	13.1	
DRO >C10-C28*	**281**	10.0	12/10/2019	ND	182	91.0	200	13.3	QM-07
EXT DRO >C28-C36	**118**	10.0	12/10/2019	ND					

Surrogate: 1-Chlorooctane *84.8 %* *41-142*

Surrogate: 1-Chlorooctadecane *97.3 %* *37.6-147*

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Lovington NM, 88260
Fax To: (575) 396-1429

Received:	12/06/2019	Sampling Date:	12/05/2019
Reported:	12/11/2019	Sampling Type:	Soil
Project Name:	STATE LA TR 1.2	Sampling Condition:	Cool & Intact
Project Number:	11510	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY - LEA CO NM		

Sample ID: WH - 1 B @ 2' (H904097-15)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	ND	2.03	102	2.00	6.59	
Toluene*	<0.050	0.050	12/10/2019	ND	2.04	102	2.00	7.77	
Ethylbenzene*	<0.050	0.050	12/10/2019	ND	1.99	99.6	2.00	7.49	
Total Xylenes*	<0.150	0.150	12/10/2019	ND	5.81	96.8	6.00	7.01	
Total BTEX	<0.300	0.300	12/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	12/10/2019	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	164	81.9	200	13.1	
DRO >C10-C28*	<10.0	10.0	12/10/2019	ND	182	91.0	200	13.3	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					

Surrogate: 1-Chlorooctane *78.8 %* *41-142*

Surrogate: 1-Chlorooctadecane *79.7 %* *37.6-147*

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Fax To: (575) 396-1429

Received:	12/06/2019	Sampling Date:	12/05/2019
Reported:	12/11/2019	Sampling Type:	Soil
Project Name:	STATE LA TR 1.2	Sampling Condition:	Cool & Intact
Project Number:	11510	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY - LEA CO NM		

Sample ID: SH - 2 B @ SURFACE (H904097-16)

BTEX 8021B mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	ND	2.03	102	2.00	6.59	
Toluene*	<0.050	0.050	12/10/2019	ND	2.04	102	2.00	7.77	
Ethylbenzene*	<0.050	0.050	12/10/2019	ND	1.99	99.6	2.00	7.49	
Total Xylenes*	<0.150	0.150	12/10/2019	ND	5.81	96.8	6.00	7.01	
Total BTEX	<0.300	0.300	12/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**240**	16.0	12/10/2019	ND	400	100	400	7.69	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	164	81.9	200	13.1	
DRO >C10-C28*	**315**	10.0	12/10/2019	ND	182	91.0	200	13.3	
EXT DRO >C28-C36	**198**	10.0	12/10/2019	ND					

Surrogate: 1-Chlorooctane *73.7 %* *41-142*

Surrogate: 1-Chlorooctadecane *83.6 %* *37.6-147*

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Fax To: (575) 396-1429

Received:	12/06/2019	Sampling Date:	12/05/2019
Reported:	12/11/2019	Sampling Type:	Soil
Project Name:	STATE LA TR 1.2	Sampling Condition:	Cool & Intact
Project Number:	11510	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY - LEA CO NM		

Sample ID: SH - 2 B @ 2' (H904097-17)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	ND	2.03	102	2.00	6.59	
Toluene*	<0.050	0.050	12/10/2019	ND	2.04	102	2.00	7.77	
Ethylbenzene*	<0.050	0.050	12/10/2019	ND	1.99	99.6	2.00	7.49	
Total Xylenes*	<0.150	0.150	12/10/2019	ND	5.81	96.8	6.00	7.01	
Total BTEX	<0.300	0.300	12/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**160**	16.0	12/10/2019	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	164	81.9	200	13.1	
DRO >C10-C28*	**1040**	10.0	12/10/2019	ND	182	91.0	200	13.3	
EXT DRO >C28-C36	**625**	10.0	12/10/2019	ND					

Surrogate: 1-Chlorooctane *83.8 %* *41-142*

Surrogate: 1-Chlorooctadecane *108 %* *37.6-147*

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Received:	12/06/2019	Sampling Date:	12/05/2019
Reported:	12/11/2019	Sampling Type:	Soil
Project Name:	STATE LA TR 1.2	Sampling Condition:	Cool & Intact
Project Number:	11510	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY - LEA CO NM		

Sample ID: WH - 2 B @ SURFACE (H904097-18)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	ND	2.03	102	2.00	6.59	
Toluene*	<0.050	0.050	12/10/2019	ND	2.04	102	2.00	7.77	
Ethylbenzene*	<0.050	0.050	12/10/2019	ND	1.99	99.6	2.00	7.49	
Total Xylenes*	<0.150	0.150	12/10/2019	ND	5.81	96.8	6.00	7.01	
Total BTEX	<0.300	0.300	12/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	12/10/2019	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	164	81.9	200	13.1	
DRO >C10-C28*	<10.0	10.0	12/10/2019	ND	182	91.0	200	13.3	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					

Surrogate: 1-Chlorooctane *83.0 %* *41-142*

Surrogate: 1-Chlorooctadecane *86.0 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Etech Environmental & Safety Solutions
LANCE CRENSHAW
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received:	12/06/2019	Sampling Date:	12/05/2019
Reported:	12/11/2019	Sampling Type:	Soil
Project Name:	STATE LA TR 1.2	Sampling Condition:	Cool & Intact
Project Number:	11510	Sample Received By:	Tamara Oldaker
Project Location:	GRIZZLY ENERGY - LEA CO NM		

Sample ID: WH - 2 B @ 2' (H904097-19)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	ND	2.03	102	2.00	6.59	
Toluene*	<0.050	0.050	12/10/2019	ND	2.04	102	2.00	7.77	
Ethylbenzene*	<0.050	0.050	12/10/2019	ND	1.99	99.6	2.00	7.49	
Total Xylenes*	<0.150	0.150	12/10/2019	ND	5.81	96.8	6.00	7.01	
Total BTEX	<0.300	0.300	12/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *73.3-129*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	12/10/2019	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2019	ND	164	81.9	200	13.1	
DRO >C10-C28*	<10.0	10.0	12/10/2019	ND	182	91.0	200	13.3	
EXT DRO >C28-C36	<10.0	10.0	12/10/2019	ND					

Surrogate: 1-Chlorooctane *84.0 %* *41-142*

Surrogate: 1-Chlorooctadecane *86.6 %* *37.6-147*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager

Page 182 of 287

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Grizzly Energy, LLC	BILL TO	
Project Manager:	Lance Crenshaw	P.O. #:	
Address:	3100 Plains Hwy	Company:	Grizzley Operatring
City:	Lovington State: NM Zip: 88260	Attn:	Carmen Pitt
Phone #:	575-396-2378 Fax #: 575-396-1429	Address:	
Project #:	11510 Project Owner: Grizzly Energy, LLC	City:	
Project Name:	State LA TR 1.2	State:	Zip:
Project Location:	Rural Lea Co, NM	Phone #:	
Sampler Name:		Fax #:	

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	Chloride	TPH	BTEX 8021
H904097																	
1	SP #1 @ 2'	G	1			X							12/5/19	10:00	X	X	X
2	SP #2 @ 2'	G	1			X							12/5/19	10:15	X	X	X
3	SP #3 @ 2'	G	1			X							12/5/19	10:20	X	X	X
4	SP #4 @ 2'	G	1			X							12/5/19	10:25	X	X	X
5	SP #5 @ 2	G	1			X							12/5/19	10:40	X	X	X
6	NH-1 @ Surf.	G	1			X							12/5/19	11:00	X	X	X
7	NH-1 @ 2'	G	1			X							12/5/19	11:10	X	X	X
8	EH-1 @ Surf.	G	1			X							12/5/19	11:15	X	X	X
9	EH-1 @ 2'	G	1			X							12/5/19	11:25	X	X	X
10	EH-2b @ Surf.	G	1			X							12/5/19	11:45	X	X	X

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Relinquished By:	Date: 12/6/19 Time: 15:25	Received By:	
Relinquished By:	Date: Time:	Received By:	
Delivered By: (Circle One)	3.1° #97	Sample Condition Cool Intact	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	Corrected 3.5°C	Yes Yes / No No	

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS: Email results to lance@etechenv.com

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

FORM-006 R 2.0

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Page 183 of 287

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Grizzly Energy, LLC
Project Manager:	Lance Crenshaw
Address:	3100 Plains Hwy
City:	Lovington State: NM Zip: 88260
Phone #:	575-396-2378 Fax #: 575-396-1429
Project #:	11510 Project Owner: Grizzly Energy, LLC
Project Name:	State LA TR 1.2
Project Location:	Rural Lea Co, NM
Sampler Name:	

BILL TO

P.O. #:	
Company:	Grizzley Operatring
Attn:	Carmen Pitt
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: Chloride	TPH	BTEX 8021
H904097																	
11	EH2B@2'	G	1			X					X		12/5/19	12:10	X	X	X
12	SH1B@Surf	G	1			X					X		12/5/19	12:25	X	X	X
13	SH-1B@2'	G	1			X					X		12/5/19	12:35	X	X	X
14	WH-1B@Surf	G	1			X					X		12/5/19	12:45	X	X	X
15	WH-1B@2'	G	1			X					X		12/5/19	1:00	X	X	X
16	SH-2B@Surf.	G	1			X					X		12/5/19	1:15	X	X	X
17	SH-2B@2'	G	1			X					X		12/5/19	1:30	X	X	X
18	WH-2B@Surf.	G	1			X					X		12/5/19	1:45	X	X	X
19	WH-2B@2'	G	1			X					X		12/5/19	2:00	X	X	X

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Relinquished By:	Date: 12/6/19	Received By:	
	Time: 15:25		
Relinquished By:	Date:	Received By:	
	Time:		

Delivered By: (Circle One) 3.1c #197

Sampler - UPS - Bus - Other: Corrected 3.5c

Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No

CHECKED BY: (Initials) T.O.

Phone Result: ☐ Yes ☐ No Add'l Phone #:

Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS: Email results to lance@etechenv.com

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

FORM-006 R 2.0

Received by OCD: 9/14/2020 10:56:18 AM

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Analytical Laboratory

Analytical Report

Report Summary

Client: Grizzly Energy

Samples Received: 1/9/2020
Job Number: 19054-0003
Work Order: P001026
Project Name/Location: State LA

Report Reviewed By: _____ Date: 1/10/20

Walter Hinchman, Laboratory Director

Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
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Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.

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Analytical Laboratory

Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Lindsey Salgado	01/10/20 12:04

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP1-2'	P001026-01A	Soil	01/06/20	01/09/20	Glass Jar, 4 oz.
SP2-2'	P001026-02A	Soil	01/06/20	01/09/20	Glass Jar, 4 oz.
SP3-2'	P001026-03A	Soil	01/06/20	01/09/20	Glass Jar, 4 oz.
SP4-2'	P001026-04A	Soil	01/06/20	01/09/20	Glass Jar, 4 oz.
SP5-2'	P001026-05A	Soil	01/06/20	01/09/20	Glass Jar, 4 oz.

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Lindsey Salgado	01/10/20 12:04

SP1-2'
P001026-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	**0.0890**	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Toluene	**1.03**	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Ethylbenzene	**1.34**	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
p,m-Xylene	**1.38**	0.0500	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
o-Xylene	**0.649**	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Total Xylenes	**2.03**	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		*99.3 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8260B*	
Surrogate: Toluene-d8		*106 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8260B*	
Surrogate: Bromofluorobenzene		*103 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8260B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	**1300**	50.0	mg/kg	2	2002032	01/09/20	01/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	**495**	100	mg/kg	2	2002032	01/09/20	01/09/20	EPA 8015D	
Surrogate: n-Nonane		*140 %*		*50-200*	*2002032*	*01/09/20*	*01/09/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	**57.1**	20.0	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		*99.3 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8015D*	
Surrogate: Toluene-d8		*106 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8015D*	
Surrogate: Bromofluorobenzene		*103 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**1110**	20.0	mg/kg	1	2002034	01/09/20	01/09/20	EPA 300.0/9056A	

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Analytical Laboratory

Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Lindsey Salgado	01/10/20 12:04

SP2-2'
P001026-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	**2.93**	0.250	mg/kg	10	2002030	01/08/20	01/09/20	EPA 8260B	
Toluene	**25.3**	0.250	mg/kg	10	2002030	01/08/20	01/09/20	EPA 8260B	
Ethylbenzene	**17.9**	0.250	mg/kg	10	2002030	01/08/20	01/09/20	EPA 8260B	
p,m-Xylene	**17.1**	0.500	mg/kg	10	2002030	01/08/20	01/09/20	EPA 8260B	
o-Xylene	**9.21**	0.250	mg/kg	10	2002030	01/08/20	01/09/20	EPA 8260B	
Total Xylenes	**26.4**	0.250	mg/kg	10	2002030	01/08/20	01/09/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		*96.3 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8260B*	
Surrogate: Toluene-d8		*103 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8260B*	
Surrogate: Bromofluorobenzene		*99.9 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8260B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	**9030**	250	mg/kg	10	2002032	01/09/20	01/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	**3440**	500	mg/kg	10	2002032	01/09/20	01/09/20	EPA 8015D	
Surrogate: n-Nonane		*282 %*		*50-200*	*2002032*	*01/09/20*	*01/09/20*	*EPA 8015D*	*S3*
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	**351**	200	mg/kg	10	2002030	01/08/20	01/09/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		*96.3 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8015D*	
Surrogate: Toluene-d8		*103 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8015D*	
Surrogate: Bromofluorobenzene		*99.9 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**195**	20.0	mg/kg	1	2002034	01/09/20	01/09/20	EPA 300.0/9056A	

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Analytical Laboratory

Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Lindsey Salgado	01/10/20 12:04

SP3-2'
P001026-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	**64.3**	2.50	mg/kg	100	2002030	01/08/20	01/09/20	EPA 8260B	
Toluene	**262**	2.50	mg/kg	100	2002030	01/08/20	01/09/20	EPA 8260B	
Ethylbenzene	**121**	2.50	mg/kg	100	2002030	01/08/20	01/09/20	EPA 8260B	
p,m-Xylene	**105**	5.00	mg/kg	100	2002030	01/08/20	01/09/20	EPA 8260B	
o-Xylene	**49.2**	2.50	mg/kg	100	2002030	01/08/20	01/09/20	EPA 8260B	
Total Xylenes	**154**	2.50	mg/kg	100	2002030	01/08/20	01/09/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		*100 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8260B*	
Surrogate: Toluene-d8		*101 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8260B*	
Surrogate: Bromofluorobenzene		*97.8 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8260B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	**45500**	1250	mg/kg	50	2002032	01/09/20	01/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	**6490**	2500	mg/kg	50	2002032	01/09/20	01/09/20	EPA 8015D	
Surrogate: n-Nonane		*339 %*		*50-200*	*2002032*	*01/09/20*	*01/09/20*	*EPA 8015D*	*S3*
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	**2140**	2000	mg/kg	100	2002030	01/08/20	01/09/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		*100 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8015D*	
Surrogate: Toluene-d8		*101 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8015D*	
Surrogate: Bromofluorobenzene		*97.8 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**559**	40.0	mg/kg	2	2002034	01/09/20	01/09/20	EPA 300.0/9056A	

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Analytical Laboratory

Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Lindsey Salgado	01/10/20 12:04

SP4-2'
P001026-04 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	**0.0985**	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Toluene	**0.973**	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Ethylbenzene	**0.771**	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
p,m-Xylene	**0.868**	0.0500	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
o-Xylene	**0.666**	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Total Xylenes	**1.53**	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		*102 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8260B*	
Surrogate: Toluene-d8		*104 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8260B*	
Surrogate: Bromofluorobenzene		*98.4 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8260B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	**2070**	250	mg/kg	10	2002032	01/09/20	01/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	**646**	500	mg/kg	10	2002032	01/09/20	01/09/20	EPA 8015D	
Surrogate: n-Nonane		*135 %*		*50-200*	*2002032*	*01/09/20*	*01/09/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	**49.3**	20.0	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		*102 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8015D*	
Surrogate: Toluene-d8		*104 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8015D*	
Surrogate: Bromofluorobenzene		*98.4 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**751**	20.0	mg/kg	1	2002034	01/09/20	01/09/20	EPA 300.0/9056A	

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Analytical Laboratory

Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Lindsey Salgado	01/10/20 12:04

SP5-2'
P001026-05 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	**0.0695**	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Toluene	**0.160**	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Ethylbenzene	**0.0365**	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		*96.4 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8260B*	
Surrogate: Toluene-d8		*100 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8260B*	
Surrogate: Bromofluorobenzene		*95.3 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8260B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	**960**	50.0	mg/kg	2	2002032	01/09/20	01/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	**1260**	100	mg/kg	2	2002032	01/09/20	01/09/20	EPA 8015D	
Surrogate: n-Nonane		*111 %*		*50-200*	*2002032*	*01/09/20*	*01/09/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		*96.4 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8015D*	
Surrogate: Toluene-d8		*100 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8015D*	
Surrogate: Bromofluorobenzene		*95.3 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2002034	01/09/20	01/09/20	EPA 300.0/9056A	

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Lindsey Salgado	01/10/20 12:04

Volatile Organic Compounds by 8260 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002030 - Purge and Trap EPA 5030A										
Blank (2002030-BLK1)				Prepared: 01/08/20 1 Analyzed: 01/09/20 2						
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 1,2-Dichloroethane-d4	*0.479*		"	*0.500*		*95.8*	*70-130*			
Surrogate: Toluene-d8	*0.498*		"	*0.500*		*99.6*	*70-130*			
Surrogate: Bromofluorobenzene	*0.476*		"	*0.500*		*95.1*	*70-130*			
LCS (2002030-BS1)				Prepared: 01/08/20 1 Analyzed: 01/10/20 0						
Benzene	2.41	0.0250	mg/kg	2.50		96.5	70-130			
Toluene	2.45	0.0250	"	2.50		97.8	70-130			
Ethylbenzene	2.54	0.0250	"	2.50		101	70-130			
p,m-Xylene	4.94	0.0500	"	5.00		98.7	70-130			
o-Xylene	2.44	0.0250	"	2.50		97.7	70-130			
Total Xylenes	7.38	0.0250	"	7.50		98.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.508*		"	*0.500*		*102*	*70-130*			
Surrogate: Toluene-d8	*0.506*		"	*0.500*		*101*	*70-130*			
Surrogate: Bromofluorobenzene	*0.492*		"	*0.500*		*98.4*	*70-130*			
Matrix Spike (2002030-MS1)		**Source: P001027-01**		Prepared: 01/08/20 1 Analyzed: 01/10/20 0						
Benzene	2.48	0.0250	mg/kg	2.50	ND	99.4	48-131			
Toluene	2.46	0.0250	"	2.50	ND	98.4	48-130			
Ethylbenzene	2.54	0.0250	"	2.50	ND	102	45-135			
p,m-Xylene	4.98	0.0500	"	5.00	ND	99.6	43-135			
o-Xylene	2.47	0.0250	"	2.50	ND	98.8	43-135			
Total Xylenes	7.45	0.0250	"	7.50	ND	99.4	43-135			
Surrogate: 1,2-Dichloroethane-d4	*0.486*		"	*0.500*		*97.2*	*70-130*			
Surrogate: Toluene-d8	*0.502*		"	*0.500*		*100*	*70-130*			
Surrogate: Bromofluorobenzene	*0.492*		"	*0.500*		*98.3*	*70-130*			
Matrix Spike Dup (2002030-MSD1)		**Source: P001027-01**		Prepared: 01/08/20 1 Analyzed: 01/10/20 0						
Benzene	2.50	0.0250	mg/kg	2.50	ND	99.8	48-131	0.442	23	
Toluene	2.49	0.0250	"	2.50	ND	99.4	48-130	0.991	24	
Ethylbenzene	2.60	0.0250	"	2.50	ND	104	45-135	2.20	27	
p,m-Xylene	5.07	0.0500	"	5.00	ND	101	43-135	1.76	27	
o-Xylene	2.51	0.0250	"	2.50	ND	100	43-135	1.61	27	
Total Xylenes	7.58	0.0250	"	7.50	ND	101	43-135	1.71	27	
Surrogate: 1,2-Dichloroethane-d4	*0.516*		"	*0.500*		*103*	*70-130*			
Surrogate: Toluene-d8	*0.506*		"	*0.500*		*101*	*70-130*			
Surrogate: Bromofluorobenzene	*0.491*		"	*0.500*		*98.1*	*70-130*			

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Lindsey Salgado	01/10/20 12:04

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002032 - DRO Extraction EPA 3570										
Blank (2002032-BLK1)				Prepared: 01/09/20 0 Analyzed: 01/09/20 2						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	*46.4*		*"*	*50.0*		*92.8*	*50-200*			
LCS (2002032-BS1)				Prepared: 01/09/20 0 Analyzed: 01/09/20 2						
Diesel Range Organics (C10-C28)	511	25.0	mg/kg	500		102	38-132			
Surrogate: n-Nonane	*54.3*		*"*	*50.0*		*109*	*50-200*			
Matrix Spike (2002032-MS1)	**Source: P001027-01**			Prepared: 01/09/20 0 Analyzed: 01/09/20 2						
Diesel Range Organics (C10-C28)	612	25.0	mg/kg	500	52.8	112	38-132			
Surrogate: n-Nonane	*60.1*		*"*	*50.0*		*120*	*50-200*			
Matrix Spike Dup (2002032-MSD1)	**Source: P001027-01**			Prepared: 01/09/20 0 Analyzed: 01/09/20 2						
Diesel Range Organics (C10-C28)	631	25.0	mg/kg	500	52.8	116	38-132	3.10	20	
Surrogate: n-Nonane	*60.5*		*"*	*50.0*		*121*	*50-200*			

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Lindsey Salgado	01/10/20 12:04

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002030 - Purge and Trap EPA 5030A										
Blank (2002030-BLK1)				Prepared: 01/08/20 1 Analyzed: 01/09/20 2						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	*0.479*		"	*0.500*		*95.8*	*70-130*			
Surrogate: Toluene-d8	*0.498*		"	*0.500*		*99.6*	*70-130*			
Surrogate: Bromofluorobenzene	*0.476*		"	*0.500*		*95.1*	*70-130*			
LCS (2002030-BS2)				Prepared: 01/08/20 1 Analyzed: 01/10/20 0						
Gasoline Range Organics (C6-C10)	49.7	20.0	mg/kg	50.0		99.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.496*		"	*0.500*		*99.2*	*70-130*			
Surrogate: Toluene-d8	*0.503*		"	*0.500*		*101*	*70-130*			
Surrogate: Bromofluorobenzene	*0.485*		"	*0.500*		*97.0*	*70-130*			
Matrix Spike (2002030-MS2)	**Source: P001027-01**			Prepared: 01/08/20 1 Analyzed: 01/10/20 0						
Gasoline Range Organics (C6-C10)	55.8	20.0	mg/kg	50.0	ND	112	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.495*		"	*0.500*		*98.9*	*70-130*			
Surrogate: Toluene-d8	*0.512*		"	*0.500*		*102*	*70-130*			
Surrogate: Bromofluorobenzene	*0.499*		"	*0.500*		*99.8*	*70-130*			
Matrix Spike Dup (2002030-MSD2)	**Source: P001027-01**			Prepared: 01/08/20 1 Analyzed: 01/10/20 0						
Gasoline Range Organics (C6-C10)	56.1	20.0	mg/kg	50.0	ND	112	70-130	0.466	20	
Surrogate: 1,2-Dichloroethane-d4	*0.480*		"	*0.500*		*95.9*	*70-130*			
Surrogate: Toluene-d8	*0.503*		"	*0.500*		*101*	*70-130*			
Surrogate: Bromofluorobenzene	*0.472*		"	*0.500*		*94.4*	*70-130*			

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Lindsey Salgado	01/10/20 12:04

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002034 - Anion Extraction EPA 300.0/9056A										
Blank (2002034-BLK1)				Prepared & Analyzed: 01/09/20 0						
Chloride	ND	20.0	mg/kg							
LCS (2002034-BS1)				Prepared: 01/09/20 0 Analyzed: 01/09/20 1						
Chloride	249	20.0	mg/kg	250		99.5	90-110			
Matrix Spike (2002034-MS1)		**Source: P001026-01**		Prepared: 01/09/20 0 Analyzed: 01/09/20 1						
Chloride	1340	20.0	mg/kg	250	1110	92.4	80-120			
Matrix Spike Dup (2002034-MSD1)		**Source: P001026-01**		Prepared: 01/09/20 0 Analyzed: 01/09/20 1						
Chloride	1240	20.0	mg/kg	250	1110	53.2	80-120	7.58	20	M2

QC Summary Report
Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Lindsey Salgado	01/10/20 12:04

Notes and Definitions

S3	Surrogate spike recovery was outside acceptance limits. LCS spike recovery was acceptable.
M2	Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
**	Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Project Information

Chain of Custody

Page 1 of 1

(1D)

Received by OCD: 9/4/2020 10:56:18 AM

Client:	Grizzly
Project:	State LA
Project Manager:	Lindsey Salgado
Address:	PO BOX 1058
City, State, Zip	
Phone:	
Email:	LSalgado@hunary-horse.com

Report Attention

Report due by:	
Attention:	Natali Gladden
Address:	
City, State, Zip	
Phone:	
Email:	Ngladden@hunary-horse.com

Lab Use Only		TAT		EPA Program		
Lab WO#	Job Number	1D	3D	RCRA	CWA	SDW
P001026	19054-0003	✓				

State			
NM	CO	UT	AZ

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0		TCEQ 1005	BGDOC - NM	BGDOC - TX				Remarks
8:39	1/6/20	S	1	Sp1 - 2'	1	X	X	X		X								Smell bad
9:48	1/6/20			Sp2 - 2'	2	X	X	X		X								
10:39	1/6/20			Sp3 - 2'	3	X	X	X		X								
11:07	1/6/20			Sp4 - 2'	4	X	X	X		X								
12:18	1/6/20			Sp5 - 2'	5	X	X	X		X								

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Natali Gladden	1/8/20			1.8.2020	1030
	1.8.2020	1500	Raina Lopez	1/9/20	9:30

Lab Use Only

Received on ice: (Y) / N

T1 T2 T3

AVG Temp °C 4

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech Analytical Laboratory

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24 Hour Emergency Response Phone (800) 362-1879

Ph (505) 632-1881 Fx (505) 632-1865

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Analytical Laboratory

Analytical Report

Report Summary

Client: Grizzly Energy

Samples Received: 1/9/2020
Job Number: 19054-0003
Work Order: P001027
Project Name/Location: State 1A

Report Reviewed By: _____ Date: 1/10/20

Walter Hinchman, Laboratory Director

NELAP ACCREDITED TNI LABORATORY

Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.

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Grizzly Energy	Project Name:	State 1A	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Natalie Gladden	01/10/20 12:06

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW 1-2'	P001027-01A	Soil	01/07/20	01/09/20	Glass Jar, 4 oz.
SW 2-2'	P001027-02A	Soil	01/07/20	01/09/20	Glass Jar, 4 oz.
SW 3-2'	P001027-03A	Soil	01/07/20	01/09/20	Glass Jar, 4 oz.
SW 4-2'	P001027-04A	Soil	01/07/20	01/09/20	Glass Jar, 4 oz.
SW 5-2'	P001027-05A	Soil	01/07/20	01/09/20	Glass Jar, 4 oz.
SW 6-2'	P001027-06A	Soil	01/07/20	01/09/20	Glass Jar, 4 oz.
SW 7-2'	P001027-07A	Soil	01/07/20	01/09/20	Glass Jar, 4 oz.

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Grizzly Energy	Project Name:	State 1A	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Natalie Gladden	01/10/20 12:06

SW 1-2'
P001027-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		*98.2 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8260B*	
Surrogate: Toluene-d8		*99.7 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8260B*	
Surrogate: Bromofluorobenzene		*95.5 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8260B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	**52.8**	25.0	mg/kg	1	2002032	01/09/20	01/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	**71.6**	50.0	mg/kg	1	2002032	01/09/20	01/09/20	EPA 8015D	
Surrogate: n-Nonane		*129 %*		*50-200*	*2002032*	*01/09/20*	*01/09/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		*98.2 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8015D*	
Surrogate: Toluene-d8		*99.7 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8015D*	
Surrogate: Bromofluorobenzene		*95.5 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**43.0**	20.0	mg/kg	1	2002034	01/09/20	01/09/20	EPA 300.0/9056A	

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Grizzly Energy	Project Name:	State 1A	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Natalie Gladden	01/10/20 12:06

SW 2-2'
P001027-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		*95.6 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8260B*	
Surrogate: Toluene-d8		*99.9 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8260B*	
Surrogate: Bromofluorobenzene		*95.6 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8260B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	**48.7**	25.0	mg/kg	1	2002032	01/09/20	01/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	**61.8**	50.0	mg/kg	1	2002032	01/09/20	01/09/20	EPA 8015D	
Surrogate: n-Nonane		*113 %*		*50-200*	*2002032*	*01/09/20*	*01/09/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		*95.6 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8015D*	
Surrogate: Toluene-d8		*99.9 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8015D*	
Surrogate: Bromofluorobenzene		*95.6 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**42.0**	20.0	mg/kg	1	2002034	01/09/20	01/09/20	EPA 300.0/9056A	

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Grizzly Energy	Project Name:	State 1A	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Natalie Gladden	01/10/20 12:06

SW 3-2'
P001027-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		*97.3 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8260B*	
Surrogate: Toluene-d8		*99.6 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8260B*	
Surrogate: Bromofluorobenzene		*95.9 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8260B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	**256**	50.0	mg/kg	2	2002032	01/09/20	01/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	**295**	100	mg/kg	2	2002032	01/09/20	01/09/20	EPA 8015D	
Surrogate: n-Nonane		*113 %*		*50-200*	*2002032*	*01/09/20*	*01/09/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		*97.3 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8015D*	
Surrogate: Toluene-d8		*99.6 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8015D*	
Surrogate: Bromofluorobenzene		*95.9 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2002034	01/09/20	01/09/20	EPA 300.0/9056A	

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Grizzly Energy	Project Name:	State 1A	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Natalie Gladden	01/10/20 12:06

SW 4-2'
P001027-04 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		*96.5 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8260B*	
Surrogate: Toluene-d8		*100 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8260B*	
Surrogate: Bromofluorobenzene		*93.5 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8260B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	**203**	50.0	mg/kg	2	2002032	01/09/20	01/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	**264**	100	mg/kg	2	2002032	01/09/20	01/09/20	EPA 8015D	
Surrogate: n-Nonane		*104 %*		*50-200*	*2002032*	*01/09/20*	*01/09/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		*96.5 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8015D*	
Surrogate: Toluene-d8		*100 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8015D*	
Surrogate: Bromofluorobenzene		*93.5 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2002034	01/09/20	01/09/20	EPA 300.0/9056A	

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Grizzly Energy	Project Name:	State 1A	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Natalie Gladden	01/10/20 12:06

SW 5-2'
P001027-05 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		*94.4 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8260B*	
Surrogate: Toluene-d8		*100 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8260B*	
Surrogate: Bromofluorobenzene		*93.6 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8260B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	**328**	25.0	mg/kg	1	2002032	01/09/20	01/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	**290**	50.0	mg/kg	1	2002032	01/09/20	01/09/20	EPA 8015D	
Surrogate: n-Nonane		*110 %*		*50-200*	*2002032*	*01/09/20*	*01/09/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		*94.4 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8015D*	
Surrogate: Toluene-d8		*100 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8015D*	
Surrogate: Bromofluorobenzene		*93.6 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2002034	01/09/20	01/09/20	EPA 300.0/9056A	

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Grizzly Energy	Project Name:	State 1A	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Natalie Gladden	01/10/20 12:06

SW 6-2'
P001027-06 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*70-130*		*2002030*	*01/08/20*	*01/09/20*	*EPA 8260B*	
Surrogate: Toluene-d8		*99.9 %*	*70-130*		*2002030*	*01/08/20*	*01/09/20*	*EPA 8260B*	
Surrogate: Bromofluorobenzene		*94.1 %*	*70-130*		*2002030*	*01/08/20*	*01/09/20*	*EPA 8260B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	**145**	25.0	mg/kg	1	2002032	01/09/20	01/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	**139**	50.0	mg/kg	1	2002032	01/09/20	01/09/20	EPA 8015D	
Surrogate: n-Nonane		*94.6 %*	*50-200*		*2002032*	*01/09/20*	*01/09/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		*104 %*	*70-130*		*2002030*	*01/08/20*	*01/09/20*	*EPA 8015D*	
Surrogate: Toluene-d8		*99.9 %*	*70-130*		*2002030*	*01/08/20*	*01/09/20*	*EPA 8015D*	
Surrogate: Bromofluorobenzene		*94.1 %*	*70-130*		*2002030*	*01/08/20*	*01/09/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**491**	20.0	mg/kg	1	2002034	01/09/20	01/09/20	EPA 300.0/9056A	

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Grizzly Energy	Project Name:	State 1A	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Natalie Gladden	01/10/20 12:06

SW 7-2'
P001027-07 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Toluene	**0.0325**	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Ethylbenzene	**0.0445**	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
p,m-Xylene	**0.0580**	0.0500	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
o-Xylene	**0.0440**	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Total Xylenes	**0.102**	0.0250	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		*97.9 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8260B*	
Surrogate: Toluene-d8		*102 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8260B*	
Surrogate: Bromofluorobenzene		*95.5 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8260B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	**327**	25.0	mg/kg	1	2002032	01/09/20	01/09/20	EPA 8015D	
Oil Range Organics (C28-C40)	**127**	50.0	mg/kg	1	2002032	01/09/20	01/09/20	EPA 8015D	
Surrogate: n-Nonane		*114 %*		*50-200*	*2002032*	*01/09/20*	*01/09/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2002030	01/08/20	01/09/20	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		*97.9 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8015D*	
Surrogate: Toluene-d8		*102 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8015D*	
Surrogate: Bromofluorobenzene		*95.5 %*		*70-130*	*2002030*	*01/08/20*	*01/09/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**20.4**	20.0	mg/kg	1	2002034	01/09/20	01/09/20	EPA 300.0/9056A	

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Grizzly Energy	Project Name:	State 1A	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Natalie Gladden	01/10/20 12:06

Volatile Organic Compounds by 8260 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002030 - Purge and Trap EPA 5030A										
Blank (2002030-BLK1)				Prepared: 01/08/20 1 Analyzed: 01/09/20 2						
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 1,2-Dichloroethane-d4	*0.479*		"	*0.500*		*95.8*	*70-130*			
Surrogate: Toluene-d8	*0.498*		"	*0.500*		*99.6*	*70-130*			
Surrogate: Bromofluorobenzene	*0.476*		"	*0.500*		*95.1*	*70-130*			
LCS (2002030-BS1)				Prepared: 01/08/20 1 Analyzed: 01/10/20 0						
Benzene	2.41	0.0250	mg/kg	2.50		96.5	70-130			
Toluene	2.45	0.0250	"	2.50		97.8	70-130			
Ethylbenzene	2.54	0.0250	"	2.50		101	70-130			
p,m-Xylene	4.94	0.0500	"	5.00		98.7	70-130			
o-Xylene	2.44	0.0250	"	2.50		97.7	70-130			
Total Xylenes	7.38	0.0250	"	7.50		98.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.508*		"	*0.500*		*102*	*70-130*			
Surrogate: Toluene-d8	*0.506*		"	*0.500*		*101*	*70-130*			
Surrogate: Bromofluorobenzene	*0.492*		"	*0.500*		*98.4*	*70-130*			
Matrix Spike (2002030-MS1)		**Source: P001027-01**		Prepared: 01/08/20 1 Analyzed: 01/10/20 0						
Benzene	2.48	0.0250	mg/kg	2.50	ND	99.4	48-131			
Toluene	2.46	0.0250	"	2.50	ND	98.4	48-130			
Ethylbenzene	2.54	0.0250	"	2.50	ND	102	45-135			
p,m-Xylene	4.98	0.0500	"	5.00	ND	99.6	43-135			
o-Xylene	2.47	0.0250	"	2.50	ND	98.8	43-135			
Total Xylenes	7.45	0.0250	"	7.50	ND	99.4	43-135			
Surrogate: 1,2-Dichloroethane-d4	*0.486*		"	*0.500*		*97.2*	*70-130*			
Surrogate: Toluene-d8	*0.502*		"	*0.500*		*100*	*70-130*			
Surrogate: Bromofluorobenzene	*0.492*		"	*0.500*		*98.3*	*70-130*			
Matrix Spike Dup (2002030-MSD1)		**Source: P001027-01**		Prepared: 01/08/20 1 Analyzed: 01/10/20 0						
Benzene	2.50	0.0250	mg/kg	2.50	ND	99.8	48-131	0.442	23	
Toluene	2.49	0.0250	"	2.50	ND	99.4	48-130	0.991	24	
Ethylbenzene	2.60	0.0250	"	2.50	ND	104	45-135	2.20	27	
p,m-Xylene	5.07	0.0500	"	5.00	ND	101	43-135	1.76	27	
o-Xylene	2.51	0.0250	"	2.50	ND	100	43-135	1.61	27	
Total Xylenes	7.58	0.0250	"	7.50	ND	101	43-135	1.71	27	
Surrogate: 1,2-Dichloroethane-d4	*0.516*		"	*0.500*		*103*	*70-130*			
Surrogate: Toluene-d8	*0.506*		"	*0.500*		*101*	*70-130*			
Surrogate: Bromofluorobenzene	*0.491*		"	*0.500*		*98.1*	*70-130*			

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Grizzly Energy	Project Name:	State 1A	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Natalie Gladden	01/10/20 12:06

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002032 - DRO Extraction EPA 3570										
Blank (2002032-BLK1)				Prepared: 01/09/20 0 Analyzed: 01/09/20 2						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	*46.4*		*"*	*50.0*		*92.8*	*50-200*			
LCS (2002032-BS1)				Prepared: 01/09/20 0 Analyzed: 01/09/20 2						
Diesel Range Organics (C10-C28)	511	25.0	mg/kg	500		102	38-132			
Surrogate: n-Nonane	*54.3*		*"*	*50.0*		*109*	*50-200*			
Matrix Spike (2002032-MS1)	**Source: P001027-01**			Prepared: 01/09/20 0 Analyzed: 01/09/20 2						
Diesel Range Organics (C10-C28)	612	25.0	mg/kg	500	52.8	112	38-132			
Surrogate: n-Nonane	*60.1*		*"*	*50.0*		*120*	*50-200*			
Matrix Spike Dup (2002032-MSD1)	**Source: P001027-01**			Prepared: 01/09/20 0 Analyzed: 01/09/20 2						
Diesel Range Organics (C10-C28)	631	25.0	mg/kg	500	52.8	116	38-132	3.10	20	
Surrogate: n-Nonane	*60.5*		*"*	*50.0*		*121*	*50-200*			

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Grizzly Energy	Project Name:	State 1A	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Natalie Gladden	01/10/20 12:06

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002030 - Purge and Trap EPA 5030A										
Blank (2002030-BLK1)				Prepared: 01/08/20 1 Analyzed: 01/09/20 2						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	*0.479*		"	*0.500*		*95.8*	*70-130*			
Surrogate: Toluene-d8	*0.498*		"	*0.500*		*99.6*	*70-130*			
Surrogate: Bromofluorobenzene	*0.476*		"	*0.500*		*95.1*	*70-130*			
LCS (2002030-BS2)				Prepared: 01/08/20 1 Analyzed: 01/10/20 0						
Gasoline Range Organics (C6-C10)	49.7	20.0	mg/kg	50.0		99.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.496*		"	*0.500*		*99.2*	*70-130*			
Surrogate: Toluene-d8	*0.503*		"	*0.500*		*101*	*70-130*			
Surrogate: Bromofluorobenzene	*0.485*		"	*0.500*		*97.0*	*70-130*			
Matrix Spike (2002030-MS2)		**Source: P001027-01**		Prepared: 01/08/20 1 Analyzed: 01/10/20 0						
Gasoline Range Organics (C6-C10)	55.8	20.0	mg/kg	50.0	ND	112	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.495*		"	*0.500*		*98.9*	*70-130*			
Surrogate: Toluene-d8	*0.512*		"	*0.500*		*102*	*70-130*			
Surrogate: Bromofluorobenzene	*0.499*		"	*0.500*		*99.8*	*70-130*			
Matrix Spike Dup (2002030-MSD2)		**Source: P001027-01**		Prepared: 01/08/20 1 Analyzed: 01/10/20 0						
Gasoline Range Organics (C6-C10)	56.1	20.0	mg/kg	50.0	ND	112	70-130	0.466	20	
Surrogate: 1,2-Dichloroethane-d4	*0.480*		"	*0.500*		*95.9*	*70-130*			
Surrogate: Toluene-d8	*0.503*		"	*0.500*		*101*	*70-130*			
Surrogate: Bromofluorobenzene	*0.472*		"	*0.500*		*94.4*	*70-130*			

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Analytical Laboratory

Grizzly Energy	Project Name:	State 1A	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Natalie Gladden	01/10/20 12:06

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2002034 - Anion Extraction EPA 300.0/9056A										
Blank (2002034-BLK1)				Prepared & Analyzed: 01/09/20 0						
Chloride	ND	20.0	mg/kg							
LCS (2002034-BS1)				Prepared: 01/09/20 0 Analyzed: 01/09/20 1						
Chloride	249	20.0	mg/kg	250		99.5	90-110			
Matrix Spike (2002034-MS1)		**Source: P001026-01**		Prepared: 01/09/20 0 Analyzed: 01/09/20 1						
Chloride	1340	20.0	mg/kg	250	1110	92.4	80-120			
Matrix Spike Dup (2002034-MSD1)		**Source: P001026-01**		Prepared: 01/09/20 0 Analyzed: 01/09/20 1						
Chloride	1240	20.0	mg/kg	250	1110	53.2	80-120	7.58	20	M2

QC Summary Report
Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

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Grizzly Energy	Project Name:	State 1A	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Natalie Gladden	01/10/20 12:06

Notes and Definitions

M2	Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
**	Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Project Information

Chain of Custody 1 2 DAY

Page 1 of 1

Received by OCD: 9/4/2020 10:56:18 AM

Client:	Graley
Project:	State 1A
Project Manager:	N. Gladden
Address:	
City, State, Zip	
Phone:	
Email:	

Report Attention

Report due by:	Hungry Horse
Attention:	Natalie Gladden
Address:	
City, State, Zip	
Phone:	
Email:	ngladden@hungryhorse.com

Lab Use Only

Lab WO#	Job Number
P001027	19054-0003

TAT

1D	3D
✓	

EPA Program

RCRA	CWA	SDW

State

NM	CO	UT	AZ

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0		TCEQ 1005	BGDOC - NM	BGDOC - TX				Remarks
9:20	1-7-20	S	1	SW1	1													
10:06	1-7-20			SW2	2													
10:45	1-7-20			SW3	3													
11:34	1-7-20			SW4	4													
12:46	1-7-20			SW5	5													
1:35	1-7-20			SW6	6													
2:23	1-7-20			SW7	7													

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: _____

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Natalie Gladden	1/8/20			1.8.2020	1030
	1.8.2020	1500	Raina Lopez	1/9/20	9:30

Lab Use Only

Received on ice: (Y) / N

T1 _____ T2 _____ T3 _____

AVG Temp °C 4

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other _____

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, **v** - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech Analytical Laboratory

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24 Hour Emergency Response Phone (800) 362-1879

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labadmin@envirotech-inc.com

Project Information

Chain of Custody 1 2/DAY

Page 1 of

Client: Grizzly	
Project: State 1A	
Project Manager: N. Gladden	
Address:	
City, State, Zip	
Phone:	
Email:	

Report Attention

Report due by: Hungry Horse	
Attention: Natalie Gladden	
Address:	
City, State, Zip	
Phone:	
Email: ngladden@hungryhorse.com	

Lab Use Only		TAT		EPA Program		
Lab WO#	Job Number	1D	3D	RCRA	CWA	SDW
P001027	19054-0003	✓				

State: NM | CO | UT | A

Analysis and Method

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0		TCEQ 1005	BGDOC - NM	BGDOC - TX				Remarks
9:20	1-7-20	S	1	SW1-2'	1													
10:06	1-7-20			SW2-2'	2													
10:45	1-7-20			SW3-2'	3													
11:34	1-7-20			SW4-2'	4													
12:46	1-7-20			SW5-2'	5													
1:35	1-7-20			SW6-2'	6													
2:23	1-7-20			SW7-2'	7													

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Natalie Gladden	1/8/20		[signature]	1.8.2020	1030
[signature]	1.8.2020	1500	Raina Lopez	1/9/20	9:30

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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labadmin@envirotech-inc.com

Received by OCD: 9/14/2020 10:56:18 AM

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Analytical Laboratory

Analytical Report

Report Summary

Client: Grizzly Energy

Samples Received: 1/31/2020
Job Number: 19054-0003
Work Order: P001094
Project Name/Location: State LA

Report Reviewed By: Date: 2/3/20

Walter Hinchman, Laboratory Director

Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Natalie Gladden	02/03/20 14:13

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Bottom Composite	P001094-01A	Soil	01/29/20	01/31/20	Glass Jar, 4 oz.

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Natalie Gladden	02/03/20 14:13

Bottom Composite
P001094-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Ethylbenzene	**0.0370**	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
p,m-Xylene	**0.0929**	0.0500	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
o-Xylene	**0.0389**	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Total Xylenes	**0.132**	0.0250	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*102 %*		*50-150*	*2005035*	*01/31/20*	*01/31/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	**388**	25.0	mg/kg	1	2005033	01/31/20	01/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	**133**	50.0	mg/kg	1	2005033	01/31/20	01/31/20	EPA 8015D	
Surrogate: n-Nonane		*106 %*		*50-200*	*2005033*	*01/31/20*	*01/31/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005035	01/31/20	01/31/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.8 %*		*50-150*	*2005035*	*01/31/20*	*01/31/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**75.2**	20.0	mg/kg	1	2005037	01/31/20	01/31/20	EPA 300.0/9056A	

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Natalie Gladden	02/03/20 14:13

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2005035 - Purge and Trap EPA 5030A										
Blank (2005035-BLK1)				Prepared: 01/31/20 0 Analyzed: 01/31/20 1						
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	*8.63*		*"*	*8.00*		*108*	*50-150*			
LCS (2005035-BS1)				Prepared: 01/31/20 0 Analyzed: 01/31/20 1						
Benzene	5.12	0.0250	mg/kg	5.00		102	70-130			
Toluene	5.13	0.0250	"	5.00		103	70-130			
Ethylbenzene	5.11	0.0250	"	5.00		102	70-130			
p,m-Xylene	10.2	0.0500	"	10.0		102	70-130			
o-Xylene	5.14	0.0250	"	5.00		103	70-130			
Total Xylenes	15.3	0.0250	"	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*8.59*		*"*	*8.00*		*107*	*50-150*			
Matrix Spike (2005035-MS1)		**Source: P001096-01**		Prepared: 01/31/20 0 Analyzed: 01/31/20 1						
Benzene	5.03	0.0250	mg/kg	5.00	ND	101	54.3-133			
Toluene	5.05	0.0250	"	5.00	ND	101	61.4-130			
Ethylbenzene	5.04	0.0250	"	5.00	ND	101	61.4-133			
p,m-Xylene	10.1	0.0500	"	10.0	0.0512	100	63.3-131			
o-Xylene	5.07	0.0250	"	5.00	ND	101	63.3-131			
Total Xylenes	15.1	0.0250	"	15.0	0.0512	101	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	*8.68*		*"*	*8.00*		*108*	*50-150*			
Matrix Spike Dup (2005035-MSD1)		**Source: P001096-01**		Prepared: 01/31/20 0 Analyzed: 01/31/20 1						
Benzene	5.08	0.0250	mg/kg	5.00	ND	102	54.3-133	0.936	20	
Toluene	5.07	0.0250	"	5.00	ND	101	61.4-130	0.255	20	
Ethylbenzene	5.05	0.0250	"	5.00	ND	101	61.4-133	0.284	20	
p,m-Xylene	10.1	0.0500	"	10.0	0.0512	100	63.3-131	0.194	20	
o-Xylene	5.07	0.0250	"	5.00	ND	101	63.3-131	0.0701	20	
Total Xylenes	15.2	0.0250	"	15.0	0.0512	101	63.3-131	0.153	20	
Surrogate: 4-Bromochlorobenzene-PID	*8.52*		*"*	*8.00*		*106*	*50-150*			

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Natalie Gladden	02/03/20 14:13

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2005033 - DRO Extraction EPA 3570										
Blank (2005033-BLK1)				Prepared: 01/31/20 0 Analyzed: 02/03/20 0						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	*48.0*		*"*	*50.0*		*96.1*	*50-200*			
LCS (2005033-BS1)				Prepared: 01/31/20 0 Analyzed: 01/31/20 1						
Diesel Range Organics (C10-C28)	415	25.0	mg/kg	500		82.9	38-132			
Surrogate: n-Nonane	*49.3*		*"*	*50.0*		*98.6*	*50-200*			
Matrix Spike (2005033-MS1)	**Source: P001096-01**			Prepared: 01/31/20 0 Analyzed: 01/31/20 1						
Diesel Range Organics (C10-C28)	704	25.0	mg/kg	500	122	116	38-132			
Surrogate: n-Nonane	*53.9*		*"*	*50.0*		*108*	*50-200*			
Matrix Spike Dup (2005033-MSD1)	**Source: P001096-01**			Prepared: 01/31/20 0 Analyzed: 01/31/20 1						
Diesel Range Organics (C10-C28)	597	25.0	mg/kg	500	122	94.9	38-132	16.4	20	
Surrogate: n-Nonane	*47.9*		*"*	*50.0*		*95.8*	*50-200*			

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Analytical Laboratory

Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Natalie Gladden	02/03/20 14:13

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2005035 - Purge and Trap EPA 5030A										
Blank (2005035-BLK1)				Prepared: 01/31/20 0 Analyzed: 01/31/20 1						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.59*		*"*	*8.00*		*94.9*	*50-150*			
LCS (2005035-BS2)				Prepared: 01/31/20 0 Analyzed: 01/31/20 1						
Gasoline Range Organics (C6-C10)	46.8	20.0	mg/kg	50.0		93.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.69*		*"*	*8.00*		*96.2*	*50-150*			
Matrix Spike (2005035-MS2)		**Source: P001096-01**		Prepared: 01/31/20 0 Analyzed: 01/31/20 1						
Gasoline Range Organics (C6-C10)	47.7	20.0	mg/kg	50.0	ND	95.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.55*		*"*	*8.00*		*94.4*	*50-150*			
Matrix Spike Dup (2005035-MSD2)		**Source: P001096-01**		Prepared: 01/31/20 0 Analyzed: 01/31/20 1						
Gasoline Range Organics (C6-C10)	48.1	20.0	mg/kg	50.0	ND	96.2	70-130	0.984	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.46*		*"*	*8.00*		*93.3*	*50-150*			

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Analytical Laboratory

Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Natalie Gladden	02/03/20 14:13

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2005037 - Anion Extraction EPA 300.0/9056A										
Blank (2005037-BLK1)				Prepared: 01/31/20 0 Analyzed: 01/31/20 1						
Chloride	ND	20.0	mg/kg							
LCS (2005037-BS1)				Prepared: 01/31/20 0 Analyzed: 01/31/20 1						
Chloride	253	20.0	mg/kg	250		101	90-110			
Matrix Spike (2005037-MS1)		**Source: P001094-01**		Prepared: 01/31/20 0 Analyzed: 01/31/20 1						
Chloride	348	20.0	mg/kg	250	75.2	109	80-120			
Matrix Spike Dup (2005037-MSD1)		**Source: P001094-01**		Prepared: 01/31/20 0 Analyzed: 01/31/20 1						
Chloride	358	20.0	mg/kg	250	75.2	113	80-120	2.82	20	

QC Summary Report
Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

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Analytical Laboratory

Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Natalie Gladden	02/03/20 14:13

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
**	Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Project Information

Chain of Custody

Page 1 of

Client: Grizzly	
Project: State LA	
Project Manager: Natalie Gladden	
Address:	
City, State, Zip	
Phone:	
Email:	

Report Attention

Report due by:	
Attention:	Natalie Gladden
Address:	
City, State, Zip	
Phone:	575-390-6397
Email:	ngladden@hungry-horse.com

Lab Use Only		TAT		EPA Program		
Lab WO#	Job Number	1D	3D	RCRA	CWA	SDW
P001094	19054-0003	X				

State			
NM	CO	UT	AZ

Analysis and Method

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0		TCEQ 1005	BGDOC - NM	BGDOC - TX				Remarks
2:00	1-29-20	Soil	1	Bottom Composite	1								X					

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Natalie Gladden	1/30/20	1:20	[signature]	1-30-2020	1320
[signature]	1-30-2020	1450	Raina Lopez	1/31/20 ~~1/30/20~~	RL 9:30

Lab Use Only

Received on ice: (Y) / N

T1 T2 T3

AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech Analytical Laboratory
5796 US Highway 64, Farmington, NM 87401
24 Hour Emergency Response Phone (800) 362-1879
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labadmin@envirotech-inc.com

envirotech
Analytical Laboratory

Analytical Report

Report Summary

Client: Grizzly Energy

Samples Received: 2/22/2020
Job Number: 19054-0003
Work Order: P002065
Project Name/Location: State LA

Report Reviewed By: Date: 2/25/20

Walter Hinchman, Laboratory Director

Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.

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Analytical Laboratory

Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Fabian Franco	02/25/20 14:50

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Top	P002065-01A	Soil	02/20/20	02/22/20	Glass Jar, 4 oz.
E1	P002065-02A	Soil	02/20/20	02/22/20	Glass Jar, 4 oz.

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Analytical Laboratory

Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Fabian Franco	02/25/20 14:50

Top
P002065-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009001	02/24/20	02/24/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009001	02/24/20	02/24/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009001	02/24/20	02/24/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009001	02/24/20	02/24/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009001	02/24/20	02/24/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009001	02/24/20	02/24/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*104 %*		*50-150*	*2009001*	*02/24/20*	*02/24/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	**263**	50.0	mg/kg	2	2009003	02/24/20	02/24/20	EPA 8015D	
Oil Range Organics (C28-C40)	**440**	100	mg/kg	2	2009003	02/24/20	02/24/20	EPA 8015D	
Surrogate: n-Nonane		*118 %*		*50-200*	*2009003*	*02/24/20*	*02/24/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009001	02/24/20	02/24/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.9 %*		*50-150*	*2009001*	*02/24/20*	*02/24/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**83.7**	20.0	mg/kg	1	2009002	02/24/20	02/24/20	EPA 300.0/9056A	

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Fabian Franco	02/25/20 14:50

E1
P002065-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009001	02/24/20	02/24/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009001	02/24/20	02/24/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009001	02/24/20	02/24/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009001	02/24/20	02/24/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009001	02/24/20	02/24/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009001	02/24/20	02/24/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*105 %*		*50-150*	*2009001*	*02/24/20*	*02/24/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009003	02/24/20	02/24/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009003	02/24/20	02/24/20	EPA 8015D	
Surrogate: n-Nonane		*86.3 %*		*50-200*	*2009003*	*02/24/20*	*02/24/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009001	02/24/20	02/24/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*96.8 %*		*50-150*	*2009001*	*02/24/20*	*02/24/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**217**	20.0	mg/kg	1	2009002	02/24/20	02/24/20	EPA 300.0/9056A	

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Analytical Laboratory

Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Fabian Franco	02/25/20 14:50

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2009001 - Purge and Trap EPA 5030A										
Blank (2009001-BLK1)				Prepared: 02/24/20 0 Analyzed: 02/24/20 1						
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	*8.37*		*"*	*8.00*		*105*	*50-150*			
LCS (2009001-BS1)				Prepared: 02/24/20 0 Analyzed: 02/24/20 1						
Benzene	4.85	0.0250	mg/kg	5.00		96.9	70-130			
Toluene	4.85	0.0250	"	5.00		96.9	70-130			
Ethylbenzene	4.84	0.0250	"	5.00		96.7	70-130			
p,m-Xylene	9.65	0.0500	"	10.0		96.5	70-130			
o-Xylene	4.84	0.0250	"	5.00		96.8	70-130			
Total Xylenes	14.5	0.0250	"	15.0		96.6	0-200			
Surrogate: 4-Bromochlorobenzene-PID	*8.44*		*"*	*8.00*		*105*	*50-150*			
Matrix Spike (2009001-MS1)		**Source: P002058-01**		Prepared: 02/24/20 0 Analyzed: 02/24/20 1						
Benzene	5.07	0.0250	mg/kg	5.00	ND	101	54.3-133			
Toluene	5.07	0.0250	"	5.00	ND	101	61.4-130			
Ethylbenzene	5.06	0.0250	"	5.00	ND	101	61.4-133			
p,m-Xylene	10.1	0.0500	"	10.0	ND	101	63.3-131			
o-Xylene	5.07	0.0250	"	5.00	ND	101	63.3-131			
Total Xylenes	15.2	0.0250	"	15.0	ND	101	0-200			
Surrogate: 4-Bromochlorobenzene-PID	*8.46*		*"*	*8.00*		*106*	*50-150*			
Matrix Spike Dup (2009001-MSD1)		**Source: P002058-01**		Prepared: 02/24/20 0 Analyzed: 02/24/20 1						
Benzene	4.73	0.0250	mg/kg	5.00	ND	94.6	54.3-133	6.89	20	
Toluene	4.70	0.0250	"	5.00	ND	94.0	61.4-130	7.56	20	
Ethylbenzene	4.69	0.0250	"	5.00	ND	93.7	61.4-133	7.63	20	
p,m-Xylene	9.35	0.0500	"	10.0	ND	93.5	63.3-131	7.60	20	
o-Xylene	4.70	0.0250	"	5.00	ND	94.0	63.3-131	7.52	20	
Total Xylenes	14.1	0.0250	"	15.0	ND	93.7	0-200	7.57	200	
Surrogate: 4-Bromochlorobenzene-PID	*8.47*		*"*	*8.00*		*106*	*50-150*			

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Fabian Franco	02/25/20 14:50

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2009003 - DRO Extraction EPA 3570										
Blank (2009003-BLK1)				Prepared: 02/24/20 0 Analyzed: 02/24/20 1						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	*53.0*		*"*	*50.0*		*106*	*50-200*			
LCS (2009003-BS1)				Prepared: 02/24/20 0 Analyzed: 02/24/20 1						
Diesel Range Organics (C10-C28)	442	25.0	mg/kg	500		88.4	38-132			
Surrogate: n-Nonane	*47.7*		*"*	*50.0*		*95.4*	*50-200*			
Matrix Spike (2009003-MS1)	**Source: P002065-01**			Prepared: 02/24/20 0 Analyzed: 02/24/20 1						
Diesel Range Organics (C10-C28)	792	50.0	mg/kg	500	263	106	38-132			
Surrogate: n-Nonane	*59.2*		*"*	*50.0*		*118*	*50-200*			
Matrix Spike Dup (2009003-MSD1)	**Source: P002065-01**			Prepared: 02/24/20 0 Analyzed: 02/24/20 1						
Diesel Range Organics (C10-C28)	795	50.0	mg/kg	500	263	106	38-132	0.409	20	
Surrogate: n-Nonane	*57.2*		*"*	*50.0*		*114*	*50-200*			

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Analytical Laboratory

Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Fabian Franco	02/25/20 14:50

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2009001 - Purge and Trap EPA 5030A										
Blank (2009001-BLK1)				Prepared: 02/24/20 0 Analyzed: 02/24/20 1						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.59*		"	*8.00*		*94.9*	*50-150*			
LCS (2009001-BS2)				Prepared: 02/24/20 0 Analyzed: 02/24/20 1						
Gasoline Range Organics (C6-C10)	42.5	20.0	mg/kg	50.0		85.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.52*		"	*8.00*		*94.0*	*50-150*			
Matrix Spike (2009001-MS2)		**Source: P002058-01**		Prepared: 02/24/20 0 Analyzed: 02/24/20 1						
Gasoline Range Organics (C6-C10)	46.7	20.0	mg/kg	50.0	ND	93.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.61*		"	*8.00*		*95.1*	*50-150*			
Matrix Spike Dup (2009001-MSD2)		**Source: P002058-01**		Prepared: 02/24/20 0 Analyzed: 02/24/20 1						
Gasoline Range Organics (C6-C10)	43.5	20.0	mg/kg	50.0	ND	87.0	70-130	7.02	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.56*		"	*8.00*		*94.5*	*50-150*			

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Analytical Laboratory

Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Fabian Franco	02/25/20 14:50

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2009002 - Anion Extraction EPA 300.0/9056A										
Blank (2009002-BLK1)				Prepared: 02/24/20 0 Analyzed: 02/24/20 1						
Chloride	ND	20.0	mg/kg							
LCS (2009002-BS1)				Prepared: 02/24/20 0 Analyzed: 02/24/20 1						
Chloride	253	20.0	mg/kg	250		101	90-110			
Matrix Spike (2009002-MS1)		**Source: P002058-01**		Prepared: 02/24/20 0 Analyzed: 02/24/20 1						
Chloride	334	20.0	mg/kg	250	81.9	101	80-120			
Matrix Spike Dup (2009002-MSD1)		**Source: P002058-01**		Prepared: 02/24/20 0 Analyzed: 02/24/20 1						
Chloride	334	20.0	mg/kg	250	81.9	101	80-120	0.0568	20	

QC Summary Report
Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Fabian Franco	02/25/20 14:50

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
**	Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Received by OCD: 9/4/2020 10:56:18 AM

Project Information | Chain of Custody | Page 1 of 1

P002065

Client:	Grizzly
Project:	State LA
Project Manager:	Fabian Franco
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To

Attention:	Natalie Gladden
Address:	
City, State, Zip	Hobbs NM
Phone:	
Email:	Ngladden@hungo-hc.com

Lab Use Only

Lab WO#	Job Number
P002065 RL	19054-0003

TAT: 1D X | 3D

EPA Program: RCRA | CWA | SDWA

State: NM | CO | UT | AZ | TX | OK

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC - NM	BGDOC - TX			Remarks
2:23	2/20/20	S	1	Top	1									X				
1:37	2/20/20	I	1	E1	2									X				

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	2/21/20	15:15		2.21.2020	1515
	2.21.2020	1650	Raina Lopez	2/22/20	9:45

Lab Use Only

Received on ice: (Y) / N

T1 _____ T2 _____ T3 _____

AVG Temp °C 4

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other _____

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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labadmin@envirotech-inc.com

envirotech
Analytical Laboratory

Analytical Report

Report Summary

Client: Grizzly Energy

Samples Received: 2/28/2020
Job Number: 19054-0003
Work Order: P002097
Project Name/Location: State LA

Report Reviewed By: Date: 3/2/20

Walter Hinchman, Laboratory Director

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Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Natalie Gladden	03/02/20 14:21

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Composite Mix 1	P002097-01A	Soil	02/26/20	02/28/20	Glass Jar, 4 oz.
Composite Mix 2	P002097-02A	Soil	02/26/20	02/28/20	Glass Jar, 4 oz.
SW1	P002097-03A	Soil	02/26/20	02/28/20	Glass Jar, 4 oz.
SW2	P002097-04A	Soil	02/26/20	02/28/20	Glass Jar, 4 oz.
SW3	P002097-05A	Soil	02/26/20	02/28/20	Glass Jar, 4 oz.
SW4	P002097-06A	Soil	02/26/20	02/28/20	Glass Jar, 4 oz.
SW5	P002097-07A	Soil	02/26/20	02/28/20	Glass Jar, 4 oz.
SW6	P002097-08A	Soil	02/26/20	02/28/20	Glass Jar, 4 oz.

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Analytical Laboratory

Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Natalie Gladden	03/02/20 14:21

Composite Mix 1
P002097-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*		*50-150*	*2009035*	*02/28/20*	*02/28/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009034	02/28/20	02/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009034	02/28/20	02/28/20	EPA 8015D	
Surrogate: n-Nonane		*112 %*		*50-200*	*2009034*	*02/28/20*	*02/28/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.2 %*		*50-150*	*2009035*	*02/28/20*	*02/28/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**194**	20.0	mg/kg	1	2009037	02/28/20	02/28/20	EPA 300.0/9056A	

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Natalie Gladden	03/02/20 14:21

Composite Mix 2
P002097-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*103 %*		*50-150*	*2009035*	*02/28/20*	*02/28/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	**102**	25.0	mg/kg	1	2009034	02/28/20	02/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	**95.7**	50.0	mg/kg	1	2009034	02/28/20	02/28/20	EPA 8015D	
Surrogate: n-Nonane		*95.1 %*		*50-200*	*2009034*	*02/28/20*	*02/28/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.1 %*		*50-150*	*2009035*	*02/28/20*	*02/28/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**36.3**	20.0	mg/kg	1	2009037	02/28/20	02/28/20	EPA 300.0/9056A	

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Natalie Gladden	03/02/20 14:21

SW1
P002097-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*104 %*		*50-150*	*2009035*	*02/28/20*	*02/28/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009034	02/28/20	02/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009034	02/28/20	02/28/20	EPA 8015D	
Surrogate: n-Nonane		*89.3 %*		*50-200*	*2009034*	*02/28/20*	*02/28/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.9 %*		*50-150*	*2009035*	*02/28/20*	*02/28/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**112**	20.0	mg/kg	1	2009037	02/28/20	02/28/20	EPA 300.0/9056A	

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Natalie Gladden	03/02/20 14:21

SW2
P002097-04 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*104 %*		*50-150*	*2009035*	*02/28/20*	*02/28/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009034	02/28/20	02/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009034	02/28/20	02/28/20	EPA 8015D	
Surrogate: n-Nonane		*90.7 %*		*50-200*	*2009034*	*02/28/20*	*02/28/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.6 %*		*50-150*	*2009035*	*02/28/20*	*02/28/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**112**	20.0	mg/kg	1	2009037	02/28/20	02/28/20	EPA 300.0/9056A	

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Odessa TX, 79762	Project Manager:	Natalie Gladden	03/02/20 14:21

SW3
P002097-05 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*105 %*		*50-150*	*2009035*	*02/28/20*	*02/28/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009034	02/28/20	02/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009034	02/28/20	02/28/20	EPA 8015D	
Surrogate: n-Nonane		*79.5 %*		*50-200*	*2009034*	*02/28/20*	*02/28/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.6 %*		*50-150*	*2009035*	*02/28/20*	*02/28/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**78.4**	20.0	mg/kg	1	2009037	02/28/20	02/28/20	EPA 300.0/9056A	

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Odessa TX, 79762	Project Manager:	Natalie Gladden	03/02/20 14:21

SW4
P002097-06 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*104 %*		*50-150*	*2009035*	*02/28/20*	*02/28/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009034	02/28/20	02/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009034	02/28/20	02/28/20	EPA 8015D	
Surrogate: n-Nonane		*79.7 %*		*50-200*	*2009034*	*02/28/20*	*02/28/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.6 %*		*50-150*	*2009035*	*02/28/20*	*02/28/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**141**	20.0	mg/kg	1	2009037	02/28/20	02/28/20	EPA 300.0/9056A	

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Natalie Gladden	03/02/20 14:21

SW5
P002097-07 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*93.6 %*		*50-150*	*2009035*	*02/28/20*	*02/28/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009034	02/28/20	02/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009034	02/28/20	02/28/20	EPA 8015D	
Surrogate: n-Nonane		*82.9 %*		*50-200*	*2009034*	*02/28/20*	*02/28/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.1 %*		*50-150*	*2009035*	*02/28/20*	*02/28/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**386**	40.0	mg/kg	2	2009037	02/28/20	02/28/20	EPA 300.0/9056A	

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Natalie Gladden	03/02/20 14:21

SW6
P002097-08 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*99.8 %*		*50-150*	*2009035*	*02/28/20*	*02/28/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009034	02/28/20	02/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009034	02/28/20	02/28/20	EPA 8015D	
Surrogate: n-Nonane		*104 %*		*50-200*	*2009034*	*02/28/20*	*02/28/20*	*EPA 8015D*	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*87.6 %*		*50-150*	*2009035*	*02/28/20*	*02/28/20*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	**50.3**	20.0	mg/kg	1	2009037	02/28/20	02/28/20	EPA 300.0/9056A	

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Natalie Gladden	03/02/20 14:21

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2009035 - Purge and Trap EPA 5030A										
Blank (2009035-BLK1)				Prepared & Analyzed: 02/28/20 1						
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	*8.40*		*"*	*8.00*		*105*	*50-150*			
LCS (2009035-BS1)				Prepared & Analyzed: 02/28/20 1						
Benzene	4.96	0.0250	mg/kg	5.00		99.1	70-130			
Toluene	4.97	0.0250	"	5.00		99.4	70-130			
Ethylbenzene	4.97	0.0250	"	5.00		99.3	70-130			
p,m-Xylene	9.92	0.0500	"	10.0		99.2	70-130			
o-Xylene	4.98	0.0250	"	5.00		99.6	70-130			
Total Xylenes	14.9	0.0250	"	15.0		99.3	0-200			
Surrogate: 4-Bromochlorobenzene-PID	*8.51*		*"*	*8.00*		*106*	*50-150*			
Matrix Spike (2009035-MS1)		**Source: P002081-01**		Prepared & Analyzed: 02/28/20 1						
Benzene	4.89	0.0250	mg/kg	5.00	ND	97.7	54.3-133			
Toluene	4.89	0.0250	"	5.00	ND	97.9	61.4-130			
Ethylbenzene	4.89	0.0250	"	5.00	ND	97.7	61.4-133			
p,m-Xylene	9.76	0.0500	"	10.0	ND	97.6	63.3-131			
o-Xylene	4.89	0.0250	"	5.00	ND	97.9	63.3-131			
Total Xylenes	14.7	0.0250	"	15.0	ND	97.7	0-200			
Surrogate: 4-Bromochlorobenzene-PID	*8.57*		*"*	*8.00*		*107*	*50-150*			
Matrix Spike Dup (2009035-MSD1)		**Source: P002081-01**		Prepared & Analyzed: 02/28/20 1						
Benzene	5.01	0.0250	mg/kg	5.00	ND	100	54.3-133	2.42	20	
Toluene	4.98	0.0250	"	5.00	ND	99.6	61.4-130	1.78	20	
Ethylbenzene	4.97	0.0250	"	5.00	ND	99.4	61.4-133	1.71	20	
p,m-Xylene	9.92	0.0500	"	10.0	ND	99.2	63.3-131	1.64	20	
o-Xylene	4.97	0.0250	"	5.00	ND	99.4	63.3-131	1.57	20	
Total Xylenes	14.9	0.0250	"	15.0	ND	99.3	0-200	1.62	200	
Surrogate: 4-Bromochlorobenzene-PID	*8.43*		*"*	*8.00*		*105*	*50-150*			

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Natalie Gladden	03/02/20 14:21

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2009034 - DRO Extraction EPA 3570										
Blank (2009034-BLK1)				Prepared & Analyzed: 02/28/20 1						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	*49.5*		*"*	*50.0*		*99.0*	*50-200*			
LCS (2009034-BS1)				Prepared & Analyzed: 02/28/20 1						
Diesel Range Organics (C10-C28)	436	25.0	mg/kg	500		87.1	38-132			
Surrogate: n-Nonane	*47.9*		*"*	*50.0*		*95.9*	*50-200*			
Matrix Spike (2009034-MS1)	**Source: P002097-01**			Prepared: 02/28/20 1 Analyzed: 03/02/20 1						
Diesel Range Organics (C10-C28)	528	25.0	mg/kg	500	ND	106	38-132			
Surrogate: n-Nonane	*58.0*		*"*	*50.0*		*116*	*50-200*			
Matrix Spike Dup (2009034-MSD1)	**Source: P002097-01**			Prepared: 02/28/20 1 Analyzed: 03/02/20 1						
Diesel Range Organics (C10-C28)	514	25.0	mg/kg	500	ND	103	38-132	2.65	20	
Surrogate: n-Nonane	*58.5*		*"*	*50.0*		*117*	*50-200*			

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Natalie Gladden	03/02/20 14:21

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2009035 - Purge and Trap EPA 5030A										
Blank (2009035-BLK1)				Prepared & Analyzed: 02/28/20 1						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.53*		"	*8.00*		*94.1*	*50-150*			
LCS (2009035-BS2)				Prepared & Analyzed: 02/28/20 1						
Gasoline Range Organics (C6-C10)	47.6	20.0	mg/kg	50.0		95.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.58*		"	*8.00*		*94.8*	*50-150*			
Matrix Spike (2009035-MS2)		**Source: P002081-01**		Prepared & Analyzed: 02/28/20 1						
Gasoline Range Organics (C6-C10)	46.0	20.0	mg/kg	50.0	ND	91.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.61*		"	*8.00*		*95.1*	*50-150*			
Matrix Spike Dup (2009035-MSD2)		**Source: P002081-01**		Prepared & Analyzed: 02/28/20 1						
Gasoline Range Organics (C6-C10)	47.0	20.0	mg/kg	50.0	ND	94.1	70-130	2.34	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.51*		"	*8.00*		*93.9*	*50-150*			

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Analytical Laboratory

Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Natalie Gladden	03/02/20 14:21

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2009037 - Anion Extraction EPA 300.0/9056A										
Blank (2009037-BLK1)				Prepared & Analyzed: 02/28/20 1						
Chloride	ND	20.0	mg/kg							
LCS (2009037-BS1)				Prepared & Analyzed: 02/28/20 1						
Chloride	247	20.0	mg/kg	250		98.9	90-110			
Matrix Spike (2009037-MS1)		**Source: P002097-01**		Prepared & Analyzed: 02/28/20 1						
Chloride	448	20.0	mg/kg	250	194	101	80-120			
Matrix Spike Dup (2009037-MSD1)		**Source: P002097-01**		Prepared & Analyzed: 02/28/20 1						
Chloride	441	20.0	mg/kg	250	194	98.9	80-120	1.48	20	

QC Summary Report
Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0003	**Reported:**
Odessa TX, 79762	Project Manager:	Natalie Gladden	03/02/20 14:21

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
**	Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Received by OCD: 9/4/2020 10:56:18 AM

1st

Project Information | Chain of Custody | Page 1 of 1

Client: Grizzly	
Project: State 2A	
Project Manager:	
Address:	
City, State, Zip	
Phone:	
Email:	
Report due by:	

Bill To

Attention: Natali Gladden	
Address:	
City, State, Zip	
Phone:	
Email: Ngladden@hungo-hors	

Lab Use Only

Lab WO#	Job Number
P002097	19054-0003

TAT: 1D X | 3D

EPA Program: RCRA | CWA | SDWA

State: NM | CO | UT | AZ | TX | OK

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC - NM	BGDOC - TX			Remarks
9:23	2/26/20	S	1	Composite mix 1	1									X				
9:59	2/26/20			Composite mix 2	2									X				
10:21	2/26/20			SW1	3									X				
10:38	2/26/20			SW2	4									X				
10:49	2/26/20			SW3	5									X				
10:57	2/26/20			SW4	6									X				
11:11	2/26/20			SW5	7									X				
11:26	2/26/20			SW6	8									X				

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	2/27/20	8:00	Kathy Rivera	2/27/20	8:00
Kathy Rivera	2/27/20	12:49		2.27.2020	1249
	2.28.20	1125	Walter Hunter	2/28/20	11:45

Lab Use Only

Received on ice: (Y) / N

T1 _____ T2 _____ T3 _____

AVG Temp °C 4

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other _____

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech Analytical Laboratory
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labadmin@envirotech-inc.com

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Analytical Laboratory

Analytical Report

Report Summary

Client: Grizzly Energy

Samples Received: 8/13/2020

Job Number: 19054-0002

Work Order: P008035

Project Name/Location: State LA

Report Reviewed By: _____ Date: 8/19/20

Walter Hinchman, Laboratory Director

Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0002	**Reported:**
Odessa TX, 79762	Project Manager:	Daniel Dominguez	08/19/20 15:04

Sample Summary

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FL1	P008035-01A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL2	P008035-02A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL3	P008035-03A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL4	P008035-04A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL5	P008035-05A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL6	P008035-06A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL7	P008035-07A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL8	P008035-08A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL9	P008035-09A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL10	P008035-10A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL11	P008035-11A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL12	P008035-12A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL13	P008035-13A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL14	P008035-14A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL15	P008035-15A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL16	P008035-16A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL17	P008035-17A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL18	P008035-18A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL19	P008035-19A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL20	P008035-20A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL21	P008035-21A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0002	**Reported:**
Odessa TX, 79762	Project Manager:	Daniel Dominguez	08/19/20 15:04

FL1
P008035-01 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2033035
Benzene	ND	0.0250	1	08/14/20	08/14/20		
Toluene	ND	0.0250	1	08/14/20	08/14/20		
Ethylbenzene	ND	0.0250	1	08/14/20	08/14/20		
p,m-Xylene	ND	0.0500	1	08/14/20	08/14/20		
o-Xylene	ND	0.0250	1	08/14/20	08/14/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/14/20		
Surrogate: 4-Bromochlorobenzene-PID		*90.7 %*	*50-150*	*08/14/20*	*08/14/20*		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/14/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.7 %*	*50-150*	*08/14/20*	*08/14/20*		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033036
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/15/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/15/20		
Surrogate: n-Nonane		*110 %*	*50-200*	*08/14/20*	*08/15/20*		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	**225**	20.0	1	08/14/20	08/14/20		

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0002	**Reported:**
Odessa TX, 79762	Project Manager:	Daniel Dominguez	08/19/20 15:04

FL2
P008035-02 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2033035
Benzene	ND	0.0250	1	08/14/20	08/14/20		
Toluene	ND	0.0250	1	08/14/20	08/14/20		
Ethylbenzene	ND	0.0250	1	08/14/20	08/14/20		
p,m-Xylene	ND	0.0500	1	08/14/20	08/14/20		
o-Xylene	ND	0.0250	1	08/14/20	08/14/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/14/20		
Surrogate: 4-Bromochlorobenzene-PID		*97.9 %*	*50-150*	*08/14/20*	*08/14/20*		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/14/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.9 %*	*50-150*	*08/14/20*	*08/14/20*		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033036
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/15/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/15/20		
Surrogate: n-Nonane		*106 %*	*50-200*	*08/14/20*	*08/15/20*		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	**258**	20.0	1	08/14/20	08/14/20		

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0002	**Reported:**
Odessa TX, 79762	Project Manager:	Daniel Dominguez	08/19/20 15:04

FL3
P008035-03 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2033035
Benzene	ND	0.0250	1	08/14/20	08/14/20		
Toluene	ND	0.0250	1	08/14/20	08/14/20		
Ethylbenzene	ND	0.0250	1	08/14/20	08/14/20		
p,m-Xylene	ND	0.0500	1	08/14/20	08/14/20		
o-Xylene	ND	0.0250	1	08/14/20	08/14/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/14/20		
Surrogate: 4-Bromochlorobenzene-PID		*97.4 %*	*50-150*	*08/14/20*	*08/14/20*		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/14/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.2 %*	*50-150*	*08/14/20*	*08/14/20*		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033036
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/15/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/15/20		
Surrogate: n-Nonane		*110 %*	*50-200*	*08/14/20*	*08/15/20*		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	**233**	20.0	1	08/14/20	08/14/20		

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0002	**Reported:**
Odessa TX, 79762	Project Manager:	Daniel Dominguez	08/19/20 15:04

FL4
P008035-04 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2033035
Benzene	ND	0.0250	1	08/14/20	08/14/20		
Toluene	ND	0.0250	1	08/14/20	08/14/20		
Ethylbenzene	ND	0.0250	1	08/14/20	08/14/20		
p,m-Xylene	ND	0.0500	1	08/14/20	08/14/20		
o-Xylene	ND	0.0250	1	08/14/20	08/14/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/14/20		
Surrogate: 4-Bromochlorobenzene-PID		*97.2 %*	*50-150*	*08/14/20*	*08/14/20*		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/14/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.0 %*	*50-150*	*08/14/20*	*08/14/20*		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033036
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/15/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/15/20		
Surrogate: n-Nonane		*108 %*	*50-200*	*08/14/20*	*08/15/20*		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	**266**	20.0	1	08/14/20	08/14/20		

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0002	**Reported:**
Odessa TX, 79762	Project Manager:	Daniel Dominguez	08/19/20 15:04

FL5
P008035-05 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2033035
Benzene	ND	0.0250	1	08/14/20	08/14/20		
Toluene	ND	0.0250	1	08/14/20	08/14/20		
Ethylbenzene	ND	0.0250	1	08/14/20	08/14/20		
p,m-Xylene	ND	0.0500	1	08/14/20	08/14/20		
o-Xylene	ND	0.0250	1	08/14/20	08/14/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/14/20		
Surrogate: 4-Bromochlorobenzene-PID		*98.0 %*	*50-150*	*08/14/20*	*08/14/20*		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/14/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.3 %*	*50-150*	*08/14/20*	*08/14/20*		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033036
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/15/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/15/20		
Surrogate: n-Nonane		*112 %*	*50-200*	*08/14/20*	*08/15/20*		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	**224**	20.0	1	08/14/20	08/14/20		

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0002	**Reported:**
Odessa TX, 79762	Project Manager:	Daniel Dominguez	08/19/20 15:04

FL6
P008035-06 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2033035
Benzene	ND	0.0250	1	08/14/20	08/14/20		
Toluene	ND	0.0250	1	08/14/20	08/14/20		
Ethylbenzene	ND	0.0250	1	08/14/20	08/14/20		
p,m-Xylene	ND	0.0500	1	08/14/20	08/14/20		
o-Xylene	ND	0.0250	1	08/14/20	08/14/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/14/20		
Surrogate: 4-Bromochlorobenzene-PID		*98.0 %*	*50-150*	*08/14/20*	*08/14/20*		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/14/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.0 %*	*50-150*	*08/14/20*	*08/14/20*		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033036
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/15/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/15/20		
Surrogate: n-Nonane		*110 %*	*50-200*	*08/14/20*	*08/15/20*		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	**225**	20.0	1	08/14/20	08/14/20		

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0002	**Reported:**
Odessa TX, 79762	Project Manager:	Daniel Dominguez	08/19/20 15:04

FL7
P008035-07 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2033035
Benzene	ND	0.0250	1	08/14/20	08/14/20		
Toluene	ND	0.0250	1	08/14/20	08/14/20		
Ethylbenzene	ND	0.0250	1	08/14/20	08/14/20		
p,m-Xylene	ND	0.0500	1	08/14/20	08/14/20		
o-Xylene	ND	0.0250	1	08/14/20	08/14/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/14/20		
Surrogate: 4-Bromochlorobenzene-PID		*97.2 %*	*50-150*	*08/14/20*	*08/14/20*		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/14/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.9 %*	*50-150*	*08/14/20*	*08/14/20*		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033036
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/15/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/15/20		
Surrogate: n-Nonane		*113 %*	*50-200*	*08/14/20*	*08/15/20*		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	**228**	20.0	1	08/14/20	08/14/20		

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0002	**Reported:**
Odessa TX, 79762	Project Manager:	Daniel Dominguez	08/19/20 15:04

FL8
P008035-08 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2033035
Benzene	ND	0.0250	1	08/14/20	08/15/20		
Toluene	ND	0.0250	1	08/14/20	08/15/20		
Ethylbenzene	ND	0.0250	1	08/14/20	08/15/20		
p,m-Xylene	ND	0.0500	1	08/14/20	08/15/20		
o-Xylene	ND	0.0250	1	08/14/20	08/15/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/15/20		
Surrogate: 4-Bromochlorobenzene-PID		*98.5 %*	*50-150*	*08/14/20*	*08/15/20*		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/15/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.6 %*	*50-150*	*08/14/20*	*08/15/20*		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033036
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/15/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/15/20		
Surrogate: n-Nonane		*108 %*	*50-200*	*08/14/20*	*08/15/20*		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	**230**	20.0	1	08/14/20	08/14/20		

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0002	**Reported:**
Odessa TX, 79762	Project Manager:	Daniel Dominguez	08/19/20 15:04

FL9
P008035-09 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2033035
Benzene	ND	0.0250	1	08/14/20	08/15/20		
Toluene	ND	0.0250	1	08/14/20	08/15/20		
Ethylbenzene	ND	0.0250	1	08/14/20	08/15/20		
p,m-Xylene	ND	0.0500	1	08/14/20	08/15/20		
o-Xylene	ND	0.0250	1	08/14/20	08/15/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/15/20		
Surrogate: 4-Bromochlorobenzene-PID		*97.8 %*	*50-150*	*08/14/20*	*08/15/20*		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/15/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.0 %*	*50-150*	*08/14/20*	*08/15/20*		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033036
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/15/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/15/20		
Surrogate: n-Nonane		*107 %*	*50-200*	*08/14/20*	*08/15/20*		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	**268**	20.0	1	08/14/20	08/14/20		

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4001 Penbrook Suite 201	Project Number:	19054-0002	**Reported:**
Odessa TX, 79762	Project Manager:	Daniel Dominguez	08/19/20 15:04

FL10
P008035-10 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2033035
Benzene	ND	0.0250	1	08/14/20	08/15/20		
Toluene	ND	0.0250	1	08/14/20	08/15/20		
Ethylbenzene	ND	0.0250	1	08/14/20	08/15/20		
p,m-Xylene	ND	0.0500	1	08/14/20	08/15/20		
o-Xylene	ND	0.0250	1	08/14/20	08/15/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/15/20		
Surrogate: 4-Bromochlorobenzene-PID		*98.8 %*	*50-150*	*08/14/20*	*08/15/20*		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/15/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.5 %*	*50-150*	*08/14/20*	*08/15/20*		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033036
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/15/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/15/20		
Surrogate: n-Nonane		*110 %*	*50-200*	*08/14/20*	*08/15/20*		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	**258**	20.0	1	08/14/20	08/14/20		

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4001 Penbrook Suite 201	Project Number:	19054-0002	**Reported:**
Odessa TX, 79762	Project Manager:	Daniel Dominguez	08/19/20 15:04

FL11
P008035-11 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2033035
Benzene	ND	0.0250	1	08/14/20	08/15/20		
Toluene	ND	0.0250	1	08/14/20	08/15/20		
Ethylbenzene	ND	0.0250	1	08/14/20	08/15/20		
p,m-Xylene	ND	0.0500	1	08/14/20	08/15/20		
o-Xylene	ND	0.0250	1	08/14/20	08/15/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/15/20		
Surrogate: 4-Bromochlorobenzene-PID		*99.0 %*	*50-150*	*08/14/20*	*08/15/20*		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/15/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.1 %*	*50-150*	*08/14/20*	*08/15/20*		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033036
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/15/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/15/20		
Surrogate: n-Nonane		*112 %*	*50-200*	*08/14/20*	*08/15/20*		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	**222**	20.0	1	08/14/20	08/14/20		

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Odessa TX, 79762	Project Manager:	Daniel Dominguez	08/19/20 15:04

FL12
P008035-12 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2033035
Benzene	ND	0.0250	1	08/14/20	08/15/20		
Toluene	ND	0.0250	1	08/14/20	08/15/20		
Ethylbenzene	ND	0.0250	1	08/14/20	08/15/20		
p,m-Xylene	ND	0.0500	1	08/14/20	08/15/20		
o-Xylene	ND	0.0250	1	08/14/20	08/15/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/15/20		
Surrogate: 4-Bromochlorobenzene-PID		*97.7 %*	*50-150*	*08/14/20*	*08/15/20*		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/15/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.3 %*	*50-150*	*08/14/20*	*08/15/20*		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033032
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/14/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/14/20		
Surrogate: n-Nonane		*92.6 %*	*50-200*	*08/14/20*	*08/14/20*		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	**251**	20.0	1	08/14/20	08/14/20		

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Odessa TX, 79762	Project Manager:	Daniel Dominguez	08/19/20 15:04

FL13
P008035-13 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2033035
Benzene	ND	0.0250	1	08/14/20	08/15/20		
Toluene	ND	0.0250	1	08/14/20	08/15/20		
Ethylbenzene	ND	0.0250	1	08/14/20	08/15/20		
p,m-Xylene	ND	0.0500	1	08/14/20	08/15/20		
o-Xylene	ND	0.0250	1	08/14/20	08/15/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/15/20		
Surrogate: 4-Bromochlorobenzene-PID		*99.0 %*	*50-150*	*08/14/20*	*08/15/20*		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/15/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.9 %*	*50-150*	*08/14/20*	*08/15/20*		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033032
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/14/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/14/20		
Surrogate: n-Nonane		*97.4 %*	*50-200*	*08/14/20*	*08/14/20*		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	**273**	20.0	1	08/14/20	08/14/20		

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0002	**Reported:**
Odessa TX, 79762	Project Manager:	Daniel Dominguez	08/19/20 15:04

FL14
P008035-14 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2033035
Benzene	ND	0.0250	1	08/14/20	08/15/20		
Toluene	ND	0.0250	1	08/14/20	08/15/20		
Ethylbenzene	ND	0.0250	1	08/14/20	08/15/20		
p,m-Xylene	ND	0.0500	1	08/14/20	08/15/20		
o-Xylene	ND	0.0250	1	08/14/20	08/15/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/15/20		
Surrogate: 4-Bromochlorobenzene-PID		*99.5 %*	*50-150*	*08/14/20*	*08/15/20*		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/15/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.6 %*	*50-150*	*08/14/20*	*08/15/20*		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033032
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/14/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/14/20		
Surrogate: n-Nonane		*100 %*	*50-200*	*08/14/20*	*08/14/20*		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	**240**	20.0	1	08/14/20	08/14/20		

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0002	**Reported:**
Odessa TX, 79762	Project Manager:	Daniel Dominguez	08/19/20 15:04

FL15
P008035-15 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2033035
Benzene	ND	0.0250	1	08/14/20	08/15/20		
Toluene	ND	0.0250	1	08/14/20	08/15/20		
Ethylbenzene	ND	0.0250	1	08/14/20	08/15/20		
p,m-Xylene	ND	0.0500	1	08/14/20	08/15/20		
o-Xylene	ND	0.0250	1	08/14/20	08/15/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/15/20		
Surrogate: 4-Bromochlorobenzene-PID		*100 %*	*50-150*	*08/14/20*	*08/15/20*		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/15/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.8 %*	*50-150*	*08/14/20*	*08/15/20*		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033032
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/14/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/14/20		
Surrogate: n-Nonane		*101 %*	*50-200*	*08/14/20*	*08/14/20*		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	**263**	20.0	1	08/14/20	08/14/20		

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0002	**Reported:**
Odessa TX, 79762	Project Manager:	Daniel Dominguez	08/19/20 15:04

FL16
P008035-16 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2033035
Benzene	ND	0.0250	1	08/14/20	08/15/20		
Toluene	ND	0.0250	1	08/14/20	08/15/20		
Ethylbenzene	ND	0.0250	1	08/14/20	08/15/20		
p,m-Xylene	ND	0.0500	1	08/14/20	08/15/20		
o-Xylene	ND	0.0250	1	08/14/20	08/15/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/15/20		
Surrogate: 4-Bromochlorobenzene-PID		*101 %*	*50-150*	*08/14/20*	*08/15/20*		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/15/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.2 %*	*50-150*	*08/14/20*	*08/15/20*		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033032
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/14/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/14/20		
Surrogate: n-Nonane		*98.9 %*	*50-200*	*08/14/20*	*08/14/20*		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	**220**	20.0	1	08/14/20	08/15/20		

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0002	**Reported:**
Odessa TX, 79762	Project Manager:	Daniel Dominguez	08/19/20 15:04

FL17
P008035-17 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2033035
Benzene	ND	0.0250	1	08/14/20	08/15/20		
Toluene	ND	0.0250	1	08/14/20	08/15/20		
Ethylbenzene	ND	0.0250	1	08/14/20	08/15/20		
p,m-Xylene	ND	0.0500	1	08/14/20	08/15/20		
o-Xylene	ND	0.0250	1	08/14/20	08/15/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/15/20		
Surrogate: 4-Bromochlorobenzene-PID		*99.7 %*	*50-150*	*08/14/20*	*08/15/20*		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/15/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.7 %*	*50-150*	*08/14/20*	*08/15/20*		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033032
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/14/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/14/20		
Surrogate: n-Nonane		*100 %*	*50-200*	*08/14/20*	*08/14/20*		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	**277**	20.0	1	08/14/20	08/15/20		

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0002	**Reported:**
Odessa TX, 79762	Project Manager:	Daniel Dominguez	08/19/20 15:04

FL18
P008035-18 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2033035
Benzene	ND	0.0250	1	08/14/20	08/15/20		
Toluene	ND	0.0250	1	08/14/20	08/15/20		
Ethylbenzene	ND	0.0250	1	08/14/20	08/15/20		
p,m-Xylene	ND	0.0500	1	08/14/20	08/15/20		
o-Xylene	ND	0.0250	1	08/14/20	08/15/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/15/20		
Surrogate: 4-Bromochlorobenzene-PID		*99.2 %*	*50-150*	*08/14/20*	*08/15/20*		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/15/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.9 %*	*50-150*	*08/14/20*	*08/15/20*		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033032
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/14/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/14/20		
Surrogate: n-Nonane		*102 %*	*50-200*	*08/14/20*	*08/14/20*		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	**275**	20.0	1	08/14/20	08/15/20		

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0002	**Reported:**
Odessa TX, 79762	Project Manager:	Daniel Dominguez	08/19/20 15:04

FL19
P008035-19 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2033035
Benzene	ND	0.0250	1	08/14/20	08/15/20		
Toluene	ND	0.0250	1	08/14/20	08/15/20		
Ethylbenzene	ND	0.0250	1	08/14/20	08/15/20		
p,m-Xylene	ND	0.0500	1	08/14/20	08/15/20		
o-Xylene	ND	0.0250	1	08/14/20	08/15/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/15/20		
Surrogate: 4-Bromochlorobenzene-PID		*98.9 %*	*50-150*	*08/14/20*	*08/15/20*		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/15/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.6 %*	*50-150*	*08/14/20*	*08/15/20*		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033032
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/14/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/14/20		
Surrogate: n-Nonane		*102 %*	*50-200*	*08/14/20*	*08/14/20*		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	**269**	20.0	1	08/14/20	08/15/20		

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0002	**Reported:**
Odessa TX, 79762	Project Manager:	Daniel Dominguez	08/19/20 15:04

FL20
P008035-20 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2033035
Benzene	ND	0.0250	1	08/14/20	08/15/20		
Toluene	ND	0.0250	1	08/14/20	08/15/20		
Ethylbenzene	ND	0.0250	1	08/14/20	08/15/20		
p,m-Xylene	ND	0.0500	1	08/14/20	08/15/20		
o-Xylene	ND	0.0250	1	08/14/20	08/15/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/15/20		
Surrogate: 4-Bromochlorobenzene-PID		*100 %*	*50-150*	*08/14/20*	*08/15/20*		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/15/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.1 %*	*50-150*	*08/14/20*	*08/15/20*		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033032
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/14/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/14/20		
Surrogate: n-Nonane		*104 %*	*50-200*	*08/14/20*	*08/14/20*		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	**209**	20.0	1	08/14/20	08/15/20		

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0002	**Reported:**
Odessa TX, 79762	Project Manager:	Daniel Dominguez	08/19/20 15:04

FL21
P008035-21 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2033042
Benzene	ND	0.0250	1	08/14/20	08/15/20		
Toluene	ND	0.0250	1	08/14/20	08/15/20		
Ethylbenzene	ND	0.0250	1	08/14/20	08/15/20		
p,m-Xylene	ND	0.0500	1	08/14/20	08/15/20		
o-Xylene	ND	0.0250	1	08/14/20	08/15/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/15/20		
Surrogate: 4-Bromochlorobenzene-PID		*99.5 %*	*50-150*	*08/14/20*	*08/15/20*		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033042
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/15/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.9 %*	*50-150*	*08/14/20*	*08/15/20*		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033032
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/14/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/14/20		
Surrogate: n-Nonane		*106 %*	*50-200*	*08/14/20*	*08/14/20*		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033045
Chloride	**233**	20.0	1	08/14/20	08/17/20		

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0002	**Reported:**
Odessa TX, 79762	Project Manager:	Daniel Dominguez	08/19/20 15:04

Volatile Organics by EPA 8021B - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2033035-BLK1)									Prepared: 08/14/20 0 Analyzed: 08/14/20 1
Benzene	ND	0.0250							
Toluene	ND	0.0250							
Ethylbenzene	ND	0.0250							
p,m-Xylene	ND	0.0500							
o-Xylene	ND	0.0250							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.74*		*8.00*		*96.7*	*50-150*			
LCS (2033035-BS1)									Prepared: 08/14/20 0 Analyzed: 08/14/20 1
Benzene	4.80	0.0250	5.00		95.9	70-130			
Toluene	5.00	0.0250	5.00		99.9	70-130			
Ethylbenzene	4.97	0.0250	5.00		99.4	70-130			
p,m-Xylene	9.87	0.0500	10.0		98.7	70-130			
o-Xylene	4.89	0.0250	5.00		97.8	70-130			
Total Xylenes	14.8	0.0250	15.0		98.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.81*		*8.00*		*97.6*	*50-150*			
Matrix Spike (2033035-MS1)				**Source: P008035-01**					Prepared: 08/14/20 0 Analyzed: 08/14/20 1
Benzene	4.91	0.0250	5.00	ND	98.2	54-133			
Toluene	5.13	0.0250	5.00	ND	103	61-130			
Ethylbenzene	5.07	0.0250	5.00	ND	101	61-133			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
o-Xylene	4.96	0.0250	5.00	ND	99.2	63-131			
Total Xylenes	15.0	0.0250	15.0	ND	100	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.78*		*8.00*		*97.3*	*50-150*			
Matrix Spike Dup (2033035-MSD1)				**Source: P008035-01**					Prepared: 08/14/20 0 Analyzed: 08/14/20 1
Benzene	4.83	0.0250	5.00	ND	96.7	54-133	1.50	20	
Toluene	5.04	0.0250	5.00	ND	101	61-130	1.74	20	
Ethylbenzene	5.02	0.0250	5.00	ND	100	61-133	1.14	20	
p,m-Xylene	9.95	0.0500	10.0	ND	99.5	63-131	1.06	20	
o-Xylene	4.95	0.0250	5.00	ND	99.1	63-131	0.156	20	
Total Xylenes	14.9	0.0250	15.0	ND	99.3	63-131	0.757	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.79*		*8.00*		*97.4*	*50-150*			

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0002	**Reported:**
Odessa TX, 79762	Project Manager:	Daniel Dominguez	08/19/20 15:04

Volatile Organics by EPA 8021B - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2033042-BLK1)									Prepared: 08/14/20 1 Analyzed: 08/17/20 1
Benzene	ND	0.0250							
Toluene	ND	0.0250							
Ethylbenzene	ND	0.0250							
p,m-Xylene	ND	0.0500							
o-Xylene	ND	0.0250							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	*7.88*		*8.00*		*98.5*	*50-150*			
LCS (2033042-BS1)									Prepared: 08/14/20 1 Analyzed: 08/17/20 1
Benzene	4.75	0.0250	5.00		94.9	70-130			
Toluene	5.04	0.0250	5.00		101	70-130			
Ethylbenzene	5.02	0.0250	5.00		100	70-130			
p,m-Xylene	9.97	0.0500	10.0		99.7	70-130			
o-Xylene	4.94	0.0250	5.00		98.8	70-130			
Total Xylenes	14.9	0.0250	15.0		99.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.86*		*8.00*		*98.3*	*50-150*			
Matrix Spike (2033042-MS1)				**Source: P008045-01**					Prepared: 08/14/20 1 Analyzed: 08/17/20 1
Benzene	4.87	0.0250	5.00	ND	97.4	54-133			
Toluene	5.12	0.0250	5.00	ND	102	61-130			
Ethylbenzene	5.15	0.0250	5.00	ND	103	61-133			
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131			
o-Xylene	5.05	0.0250	5.00	ND	101	63-131			
Total Xylenes	15.3	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.45*		*8.00*		*93.2*	*50-150*			
Matrix Spike Dup (2033042-MSD1)				**Source: P008045-01**					Prepared: 08/14/20 1 Analyzed: 08/17/20 1
Benzene	4.88	0.0250	5.00	ND	97.7	54-133	0.233	20	
Toluene	5.18	0.0250	5.00	ND	104	61-130	1.03	20	
Ethylbenzene	5.14	0.0250	5.00	ND	103	61-133	0.182	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	0.282	20	
o-Xylene	5.03	0.0250	5.00	ND	101	63-131	0.341	20	
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131	0.302	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.35*		*8.00*		*91.8*	*50-150*			

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0002	**Reported:**
Odessa TX, 79762	Project Manager:	Daniel Dominguez	08/19/20 15:04

Nonhalogenated Organics by EPA 8015D - GRO - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2033035-BLK1)									Prepared: 08/14/20 0 Analyzed: 08/14/20 1
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.37*		*8.00*		*92.2*	*50-150*			
LCS (2033035-BS2)									Prepared: 08/14/20 0 Analyzed: 08/14/20 1
Gasoline Range Organics (C6-C10)	53.1	20.0	50.0		106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.40*		*8.00*		*92.5*	*50-150*			
Matrix Spike (2033035-MS2)				**Source: P008035-01**					Prepared: 08/14/20 0 Analyzed: 08/14/20 1
Gasoline Range Organics (C6-C10)	51.6	20.0	50.0	ND	103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.37*		*8.00*		*92.1*	*50-150*			
Matrix Spike Dup (2033035-MSD2)				**Source: P008035-01**					Prepared: 08/14/20 0 Analyzed: 08/14/20 1
Gasoline Range Organics (C6-C10)	52.2	20.0	50.0	ND	104	70-130	1.10	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.35*		*8.00*		*91.9*	*50-150*			

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0002	**Reported:**
Odessa TX, 79762	Project Manager:	Daniel Dominguez	08/19/20 15:04

Nonhalogenated Organics by EPA 8015D - GRO - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2033042-BLK1)									Prepared: 08/14/20 1 Analyzed: 08/17/20 1
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.30*		*8.00*		*91.3*	*50-150*			
LCS (2033042-BS2)									Prepared: 08/14/20 1 Analyzed: 08/17/20 1
Gasoline Range Organics (C6-C10)	53.0	20.0	50.0		106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.35*		*8.00*		*91.8*	*50-150*			
Matrix Spike (2033042-MS2)									**Source: P008045-01** Prepared: 08/14/20 1 Analyzed: 08/17/20 1
Gasoline Range Organics (C6-C10)	54.1	20.0	50.0	ND	108	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.22*		*8.00*		*90.2*	*50-150*			
Matrix Spike Dup (2033042-MSD2)									**Source: P008045-01** Prepared: 08/14/20 1 Analyzed: 08/17/20 2
Gasoline Range Organics (C6-C10)	54.3	20.0	50.0	ND	109	70-130	0.319	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.20*		*8.00*		*90.1*	*50-150*			

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0002	**Reported:**
Odessa TX, 79762	Project Manager:	Daniel Dominguez	08/19/20 15:04

Nonhalogenated Organics by EPA 8015D - DRO/ORO - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2033032-BLK1)									Prepared: 08/14/20 0 Analyzed: 08/14/20 1
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C40)	ND	50.0							
Surrogate: n-Nonane	*52.4*		*50.0*		*105*	*50-200*			
LCS (2033032-BS1)									Prepared: 08/14/20 0 Analyzed: 08/14/20 1
Diesel Range Organics (C10-C28)	481	25.0	500		96.2	38-132			
Surrogate: n-Nonane	*51.2*		*50.0*		*102*	*50-200*			
Matrix Spike (2033032-MS1)				**Source: P008041-01**					Prepared: 08/14/20 0 Analyzed: 08/14/20 1
Diesel Range Organics (C10-C28)	498	25.0	500	ND	99.6	38-132			
Surrogate: n-Nonane	*46.7*		*50.0*		*93.4*	*50-200*			
Matrix Spike Dup (2033032-MSD1)				**Source: P008041-01**					Prepared: 08/14/20 0 Analyzed: 08/14/20 1
Diesel Range Organics (C10-C28)	499	25.0	500	ND	99.8	38-132	0.184	20	
Surrogate: n-Nonane	*46.4*		*50.0*		*92.8*	*50-200*			

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0002	**Reported:**
Odessa TX, 79762	Project Manager:	Daniel Dominguez	08/19/20 15:04

Nonhalogenated Organics by EPA 8015D - DRO/ORO - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2033036-BLK1)									Prepared: 08/14/20 0 Analyzed: 08/14/20 2
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C40)	ND	50.0							
Surrogate: n-Nonane	*53.5*		*50.0*		*107*	*50-200*			
LCS (2033036-BS1)									Prepared: 08/14/20 0 Analyzed: 08/15/20 0
Diesel Range Organics (C10-C28)	470	25.0	500		94.0	38-132			
Surrogate: n-Nonane	*54.4*		*50.0*		*109*	*50-200*			
Matrix Spike (2033036-MS1)				**Source: P008033-01**					Prepared: 08/14/20 0 Analyzed: 08/15/20 0
Diesel Range Organics (C10-C28)	471	25.0	500	ND	94.3	38-132			
Surrogate: n-Nonane	*51.3*		*50.0*		*103*	*50-200*			
Matrix Spike Dup (2033036-MSD1)				**Source: P008033-01**					Prepared: 08/14/20 0 Analyzed: 08/15/20 0
Diesel Range Organics (C10-C28)	477	25.0	500	ND	95.4	38-132	1.13	20	
Surrogate: n-Nonane	*53.4*		*50.0*		*107*	*50-200*			

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0002	**Reported:**
Odessa TX, 79762	Project Manager:	Daniel Dominguez	08/19/20 15:04

Anions by EPA 300.0/9056A - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2033040-BLK1)									Prepared & Analyzed: 08/14/20 1
Chloride	ND	20.0							
LCS (2033040-BS1)									Prepared & Analyzed: 08/14/20 1
Chloride	260	20.0	250		104	90-110			
Matrix Spike (2033040-MS1)					**Source: P008035-01**				Prepared & Analyzed: 08/14/20 1
Chloride	502	20.0	250	225	111	80-120			
Matrix Spike Dup (2033040-MSD1)					**Source: P008035-01**				Prepared & Analyzed: 08/14/20 1
Chloride	432	20.0	250	225	82.8	80-120	15.1	20	

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0002	**Reported:**
Odessa TX, 79762	Project Manager:	Daniel Dominguez	08/19/20 15:04

Anions by EPA 300.0/9056A - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2033045-BLK1)									Prepared: 08/14/20 1 Analyzed: 08/17/20 1
Chloride	ND	20.0							
LCS (2033045-BS1)									Prepared: 08/14/20 1 Analyzed: 08/17/20 1
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2033045-MS1)					**Source: P008045-01**				Prepared: 08/14/20 1 Analyzed: 08/17/20 1
Chloride	294	20.0	250	39.0	102	80-120			
Matrix Spike Dup (2033045-MSD1)					**Source: P008045-01**				Prepared: 08/14/20 1 Analyzed: 08/17/20 1
Chloride	294	20.0	250	39.0	102	80-120	0.116	20	

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

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Grizzly Energy	Project Name:	State LA	
4001 Penbrook Suite 201	Project Number:	19054-0002	**Reported:**
Odessa TX, 79762	Project Manager:	Daniel Dominguez	08/19/20 15:04

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
**	Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Client:	Grizzly
Project:	State LA
Project Manager:	Daniel Dominguez
Address:	
City, State, Zip	
Phone:	
Email:	pm6@hungry-horse.com
Report due by:	

Bill To

Attention:	- Paid -
Address:	
City, State, Zip	
Phone:	
Email:	

Lab Use Only		TAT		EPA Program		
Lab WO#	Job Number	1D	3D	RCRA	CWA	SDWA
P008035	19054-0002					

State: NM, CO, UT, AZ, TX, OK

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC - NM	BGDOC - TX			Remarks
	8/3/20	S	1	FL1	1									X				
	8/3/20			FL2	2									X				
	8/3/20			FL3	3									X				
	8/3/20			FL4	4									X				
	8/3/20			FL5	5									X				
	8/3/20			FL 6	6									X				
	8/3/20			FL 7	7									X				
	8/3/20			FL 8	8									X				
	8/3/20			FL 9	9									X				
	8/3/20			FL 10	10									X				

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	8/12/20	1525		8.12.2020	1525
	8.12.2020	1700		8/13/20	10:00

Lab Use Only

Received on ice: (Y) N

T1 _____ T2 _____ T3 _____

AVG Temp °C 4.0

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other _____

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech Analytical Laboratory
5796 US Highway 64, Farmington, NM 87401
24 Hour Emergency Response Phone (800) 362-1879
Ph (505) 632-1881 Fx (505) 632-1865
envirotech-inc.com
labadmin@envirotech-inc.com

Received by OCD: 9/14/2020 10:56:18 AM

Client: Grizzly	**Bill To**
Project: State 1A	Attention:
Project Manager: Daniel Domingues	Address:
Address:	City, State, Zip
City, State, Zip	Phone:
Phone:	Email:
Email: pm@hilcorp.com	
Report due by:	

Lab Use Only		TAT		EPA Program		
Lab WO#	Job Number	1D	3D	RCRA	CWA	SDWA
P008035	19054-0002					

State			
NM	CO	UT	AZ
TX	OK		

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC - NM	BGDOC - TX			Remarks
	8/3/20	S	1	FL 11	11									X				
	8/3/20			FL 12	12									X				
	8/3/20			FL 13	13									X				
	8/3/20			FL 14	14									X				
	8/3/20			FL 15	15									X				
	8/3/20			FL 16	16									X				
	8/3/20			FL 17	17									X				
	8/3/20			FL 18	18									X				
	8/3/20			FL 19	19									X				
	8/3/20			FL 20	20									X				

Additional Instructions:

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	8/12/20	1525		8.12.2020	1525
	8.12.2020	1700		8/13/20	10:00

Lab Use Only

Received on ice: (Y) N

T1 _____ T2 _____ T3 _____

AVG Temp °C 4.0

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other _____

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Received by OCD: 9/14/2020 10:56:18 AM

Client: Grizzly	Bill To
Project: State LA	Attention: paid
Project Manager: Daniel Dominguez	Address:
Address:	City, State, Zip
City, State, Zip	Phone:
Phone:	Email:
Email: pm@hungry-horse.com	
Report due by:	

Lab Use Only: Lab WO# PCC8035 | Job Number 19034-0002

TAT: 1D | 3D

EPA Program: RCRA | CWA | SDWA

State: NM | CO | UT | AZ | TX | OK

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC - NM	BGDOC - TX			Remarks
	8/3/20	S	1	FL 21	21									Y				

Additional Instructions:

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Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	8/12/20	1525		8.12.2020	1525
	8.12.2020	1700		8/13/20	10:00

Lab Use Only — Received on ice: (Y) / N

T1 _____ T2 _____ T3 _____

AVG Temp °C 4.0

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other _____

Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

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Received by OCD: 9/14/2020 10:56:18 AM
Page 35 of 35
Page 282 of 287

Attachment V
NMOCD Form C-141 Remediation and Closure Pages

State of New Mexico
Oil Conservation Division

Incident ID	nCH1828533458
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	nCH1828533458
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: 9/14/2020

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

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nCH1828533458
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: 9/14/2020

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: _____

State of New Mexico
Oil Conservation Division

Incident ID	nCH1828533458
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: 9/14/2020

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

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____