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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

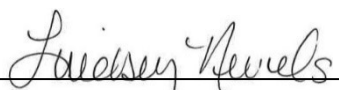
Prepared For:

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September 2020


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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:

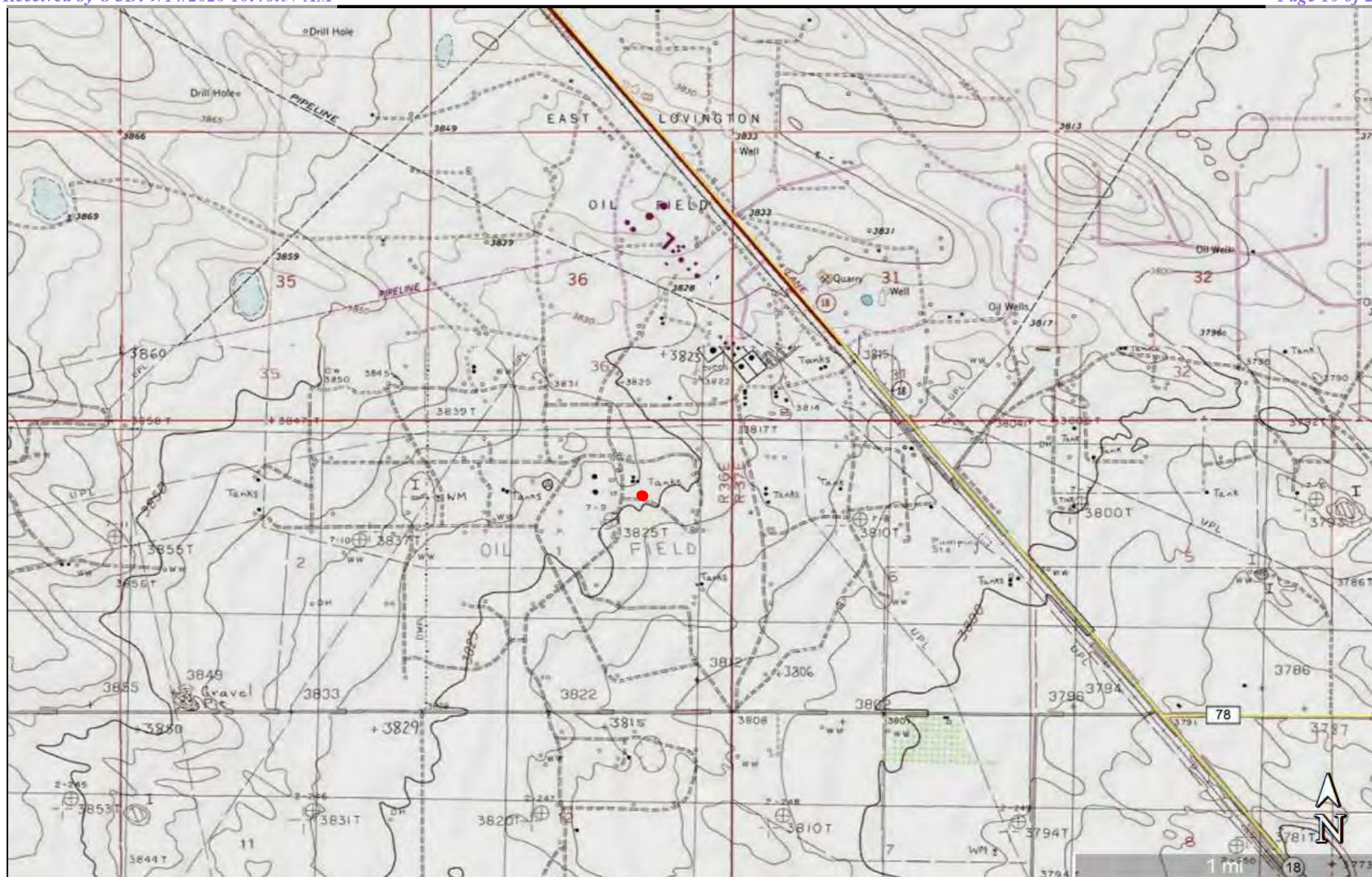
Grizzly Energy

4001 Penbrook, Suite 201
Odessa, TX 79762

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 1
1625 N. French Drive
Hobbs, NM 88240

Figures

**Figure 1**

Topographic Map

Grizzly Energy

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



**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

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



**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

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Date: 6/15/20



**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

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



**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: Imn
 Checked: dd
 Date: 7/30/20



**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



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:

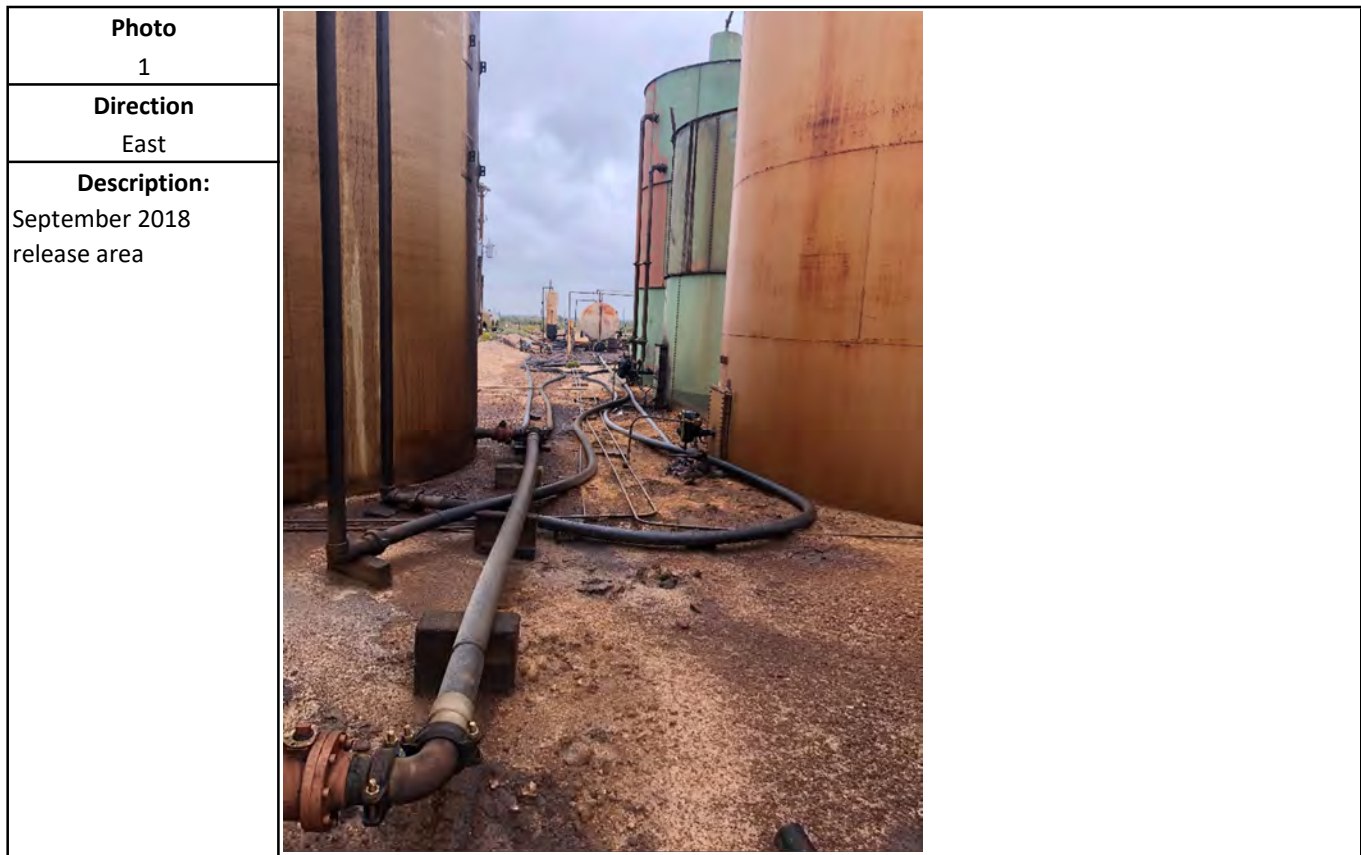
- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

Attachment I

Site Photographs

Photographs



Photographs



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 Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	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

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

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	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 Rev Date:				08/14/1963		Source:	Shallow
Pump Type:	TURBIN	Pipe Discharge Size:				5		Estimated Yield:	185 GPM
Casing Size:	9.63	Depth Well:				195 feet		Depth Water:	55 feet
Water Bearing Stratifications:					Top	Bottom	Description		
					55	170	Other/Unknown		
Casing Perforations:					Top	Bottom			
					55	190			

*UTM location was derived from PLSS - see Help

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POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	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 Rev 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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8/4/20 1:42 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	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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8/26/20 2:39 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	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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8/26/20 2:40 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	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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8/4/20 1:43 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	L 02508	2	2	2	01	17S	36E	659013	3638194* 
<hr/>									
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 Rev 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
<hr/>									
Water Bearing Stratifications:					Top	Bottom	Description		
					40	120	Sandstone/Gravel/Conglomerate		
<hr/>									
Casing Perforations:					Top	Bottom			
					60	120			

*UTM location was derived from PLSS - see Help

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8/4/20 2:50 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	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		

*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.


8/4/20 2:46 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)					(NAD83 UTM in meters)		
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	L 01584 POD1	2	1	01	17S	36E	658107	3638083*	
<hr/>									
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 Rev Date:					Source:		Shallow
Pump Type:		Pipe Discharge Size:					Estimated Yield:		
Casing Size:	7.00	Depth Well:			110 feet		Depth Water:		48 feet
<hr/>									
Water Bearing Stratifications:				Top	Bottom	Description			
				53	110	Sandstone/Gravel/Conglomerate			
<hr/>									
Casing Perforations:				Top	Bottom				
				87	109				
<hr/>									

*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.


8/4/20 1:26 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)					(NAD83 UTM in meters)		
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	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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9/9/20 2:14 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	L 10633			4	13	17S	36E	659026	3637389* 
<hr/>									
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 Rev 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	
<hr/>									
Water Bearing Stratifications:				Top	Bottom	Description			
				80	160	Shallow Alluvium/Basin Fill			
				172	201	Shallow Alluvium/Basin Fill			
				201	204	Shallow Alluvium/Basin Fill			
<hr/>									
Casing Perforations:				Top	Bottom				
				89	209				
<hr/>									

*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.


9/9/20 2:15 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	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

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.


8/4/20 1:40 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	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 Rev 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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9/9/20 2:16 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
L	10633 S			4	13	17S	36E	659026	3637189* 
<hr/>									
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 Rev 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	
<hr/>									
Water Bearing Stratifications:				Top	Bottom	Description			
				18	159	Shallow Alluvium/Basin Fill			
				182	226	Shallow Alluvium/Basin Fill			
<hr/>									
Casing Perforations:				Top	Bottom				
				135	228				
<hr/>									

*UTM location was derived from PLSS - see Help

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9/9/20 2:16 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	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 Rev 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

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


9/9/20 2:16 PM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	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.

9/9/20 2:17 PM

POINT OF DIVERSION SUMMARY



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Data Category: Geographic Area:

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Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 325141103185001

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 325141103185001 17S.36E.02.244233

Lea County, New Mexico

Latitude 32°51'55", Longitude 103°19'01" NAD27

Land-surface elevation 3,832.00 feet above NGVD29

The depth of the well is 150 feet below land surface.

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement
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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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 measurment
<input type="text" value="1992-05-01"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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.

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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 1201 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' 176

2' <30

Sp7 surf <30

1' 60

2' 82

Sp8 surf <30

1' 494

2' 148

Sp9 surf <30

1' - 160

2' 80

Sp10 surf <30

1' 80

2' 80

Sp11 surf <30

1' 320

2' 240

Sp12 surf 330

1' ~~330~~ <30

2' <30

Sp13 surf 752

1' 274

2' 392

Sp14 surf 148

1' 274

2' 132

3' <30

Sp15 surf 424

1' 274

2' 424

3' 532

4' 424 lab

Sp16 surf 1064

1' <30

2' 172

3' 274

4' 274 lab

Sp17 surf <30
 1' 196
 2' 102
 3 124

Sp18 surf <30
 1' 124
 2' 220
 3' 196

Sp19 surf <30
 1' 458
 2' 274
 3 707

Sp20 surf 424
 1' 532
 2' wet
 3 274
 4' 800

Sp21 surf <30
 1' <30

Sp22 surf <30
 1' <30

Sp23 surf <30
 1' <30

Sp24 surf <30
 1' 82
 2' 246 clay

Sp25 surf <30
 1' <30
 2' <30

Sp26 surf <30
 1' 60
 2' 196

Sp27 surf <30
 1' <30
 2' <30
 3' <30

Sp28 surf <30
 1' 102

SW1 surf <30
 1' 990 Int

SW2 102 Int
 1' 103

SW3 surf <30
 1' 194

SW4- surf <30

1' 196

SW5- surf <30

1' 862

SW6 surf <30

1' <36

Grizzly State LA

1/28/00 15

Composite

North West Corner
North wall
Bottom gray
South wall
West wall

$$\begin{aligned}12 \times 20 &= 240 \\40 \times 20 &= 800 \\4 \times 20 &= 80 \\28 \times 20 &= 560 \\12 \times 20 &= 240\end{aligned}$$

Attachment IV

Laboratory Analytical Reports



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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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
 Reported: 10/30/2018
 Project Name: STATE L 'A' BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 10/17/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/24/2018
 Reported: 10/30/2018
 Project Name: STATE L 'A' BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 10/17/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/24/2018
 Reported: 10/30/2018
 Project Name: STATE L 'A' BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 10/17/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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, 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
 Reported: 10/30/2018
 Project Name: STATE L 'A' BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 10/19/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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, 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
 Reported: 10/30/2018
 Project Name: STATE L 'A' BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 10/19/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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
 Reported: 10/30/2018
 Project Name: STATE L 'A' BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 10/19/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	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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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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

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

+ Cardinal cannot accept verbal changes Please for written changes to 15751 202-23236



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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/30/2018
 Reported: 11/05/2018
 Project Name: STATE L 'A' BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 10/25/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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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Analytical Results For:

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

Received: 10/30/2018
 Reported: 11/05/2018
 Project Name: STATE L 'A' BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 10/25/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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



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Analytical Results For:

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

Received: 10/30/2018
 Reported: 11/05/2018
 Project Name: STATE L 'A' BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 10/25/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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, 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
 Reported: 11/05/2018
 Project Name: STATE L 'A' BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 10/26/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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, Lab Director/Quality Manager



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
 Reported: 11/05/2018
 Project Name: STATE L 'A' BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 10/23/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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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Analytical Results For:

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

Received: 10/30/2018
 Reported: 11/05/2018
 Project Name: STATE L 'A' BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 10/23/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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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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
 Reported: 11/05/2018
 Project Name: STATE L 'A' BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 10/29/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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
 Reported: 11/05/2018
 Project Name: STATE L 'A' BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 10/29/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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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Analytical Results For:

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

Received: 10/30/2018
 Reported: 11/05/2018
 Project Name: STATE L 'A' BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 10/29/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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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Analytical Results For:

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

Received: 10/30/2018
 Reported: 11/05/2018
 Project Name: STATE L 'A' BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 10/29/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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
 Reported: 11/05/2018
 Project Name: STATE L 'A' BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 10/29/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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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Analytical Results For:

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

Received: 10/30/2018
 Reported: 11/05/2018
 Project Name: STATE L 'A' BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 10/29/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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, SM4500CI-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
 Reported: 11/05/2018
 Project Name: STATE L 'A' BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 10/29/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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



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
 Reported: 11/05/2018
 Project Name: STATE L 'A' BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 10/29/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

Celey D. Keene, Lab Director/Quality Manager

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

+ Cardinal cannot accept verbal changes. Please for written changes to 15751 202-2326

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

+ Cardinal cannot accept verbal change. Please for written change to (K7E) 202-2326



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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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



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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 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



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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



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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 7-2' (H803121-04)

BTX 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 BTX	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, 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 8-2' (H803121-05)

BTX 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 BTX	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, 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



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 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, 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, 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)

BTX 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 BTX	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, 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)

BTX 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 BTX	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



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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 28-1' (H803121-14)

BTX 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 BTX	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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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Vanguard		P.O. #:		BILL TO		ANALYSIS REQUEST								
Project Manager: Brent White		Company: White Buffalo												
Address: 4001 Penbrook St.		Attn: Steve McFarlin												
City: Odessa		Address: 8908 Yale Ave #210												
State: TX Zip: 79762		City: Julia												
Phone #: Fax #:		State: OK Zip: 74137												
Project #: Project Owner:		Phone #: 918-660-0999												
Project Name: State L "A" 8 Bty		Fax #:												
Project Location:		PRESERV.												
Sampler Name: Monique Cueto		SAMPLING												
FOR LAB USE ONLY														
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					DATE	TIME	Chlorides	BTEX	TPH	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE						OTHER :
4803121	SP2-1'	G								10/30/18	10:07			
1	SP3-1'	G								10/30/18	11:10			
2	SP4-2'	G								10/30/18	11:20			
3	SP5-2'	G								10/30/18	11:30			
4	SP6-2'	G								10/30/18	9:28			
5	SP7-2'	G								10/30/18	1:46			
6	SP8-2'	G								10/30/18	1:05			
7	SP9-2'	G								10/30/18	10:23			
8	SP10-2'	G								10/30/18	8:30			
9	SP11-2'	G								10/30/18	10:55			
10	SP12-2'	G								10/30/18	10:55			
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Retinquished By:		Date: 10-31-18		Received By:		Date: 10-31-18		Time: 15:55		Time: 15:55		REMARKS:		
Reinquished By:		Date:		Received By:		Date:		Time:		Time:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:		
Delivered By: (Circle One)		Sample Condition		CHECKED BY: (Initials)		Cool <input type="checkbox"/> Intact <input type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #:		
Sampler - UPS - Bus - Other:		4.3c Hgt		5.9c								Email: Natalie.Gladson@whitebuffalo.com Monique.Cueto@whitebuffalo.com		

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/15/2019
 Reported: 08/19/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/12/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/15/2019
 Reported: 08/19/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/12/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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



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Analytical Results For:

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

Received: 08/15/2019
 Reported: 08/19/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/12/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	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 BTX	<0.300	0.300	08/17/2019	ND					

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

Chloride, SM4500CI-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



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Analytical Results For:

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

Received: 08/15/2019
 Reported: 08/19/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/12/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTX 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 BTX	<0.300	0.300	08/17/2019	ND					

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

Chloride, SM4500CI-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
 Reported: 08/19/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/12/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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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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
 Reported: 08/19/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/12/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	<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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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
 Reported: 08/19/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/12/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	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 BTX	<0.300	0.300	08/17/2019	ND					

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

Chloride, SM4500CI-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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Celey D. Keene, Lab Director/Quality Manager



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
 Reported: 08/19/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/12/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	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 BTX	<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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Celey D. Keene, Lab Director/Quality Manager



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
 Reported: 08/19/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/12/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	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 BTX	<0.300	0.300	08/17/2019	ND					

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

Chloride, SM4500CI-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
 Reported: 08/19/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/12/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	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 BTX	<0.300	0.300	08/17/2019	ND					

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

Chloride, SM4500CI-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
 Reported: 08/19/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/08/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	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 BTX	<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
 Reported: 08/19/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/08/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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
 Reported: 08/19/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/08/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	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 BTX	<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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Analytical Results For:

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

Received: 08/15/2019
 Reported: 08/19/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/08/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	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 BTX	<0.300	0.300	08/17/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	08/16/2019	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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Analytical Results For:

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

Received: 08/15/2019
 Reported: 08/19/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/08/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	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 BTX	<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



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Analytical Results For:

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

Received: 08/15/2019
 Reported: 08/19/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/08/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	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 BTX	<0.300	0.300	08/17/2019	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/16/2019	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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Analytical Results For:

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

Received: 08/15/2019
 Reported: 08/19/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/08/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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, Lab Director/Quality Manager



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
 Reported: 08/19/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/08/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	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 BTX	<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

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



10/2

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

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Relinquished By:		Date:	Received By:	Phone Result:		<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Phone #:
Kathryn Montanez		8-15-19	Brandi Oldaker	Fax Result:		<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Fax #:
Time:		7:53		REMARKS:				
Relinquished By:		Date:	Received By:	Kmontanez@Hungry-Horse.com				
Brandi Oldaker		8-15-19	Jamara Oldaker	nbladden@Hungry-Horse.com				
Time:		0755						
Delivered By: (Circle One)			Sample Condition	CHECKED BY:				
26° / 2.4° correct			Cool Intact	(Initials)				
Sampler - UPS - Bus - Other:			<input type="checkbox"/> Yes <input type="checkbox"/> No	Buo T.				
			<input type="checkbox"/> Yes <input type="checkbox"/> No					



2cf2

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Vanguard Grizzly</u>				BILL TO				ANALYSIS REQUEST											
Project Manager: <u>Carmen Pitt</u>				P.O. #: <u>Vanguard</u>				<div style="display: flex; justify-content: space-between;"> <div> <u>Grizzly</u> <u>Carmen Pitt</u> <u>4001 Penbrook</u> <u>STE 201 Odessa</u> <u>TX</u> <u>79762</u> <u>438-248-8445</u> </div> <div> <u>Chinches</u> <u>B+X</u> <u>TPH</u> </div> </div>											
Address:				Company: <u>Grizzly</u>															
City: State: Zip:				Attn: <u>Carmen Pitt</u>															
Phone #: Fax #:				Address: <u>4001 Penbrook</u>															
Project #: Project Owner:				City: <u>STE 201 Odessa</u>															
Project Name:				State: <u>TX</u> Zip: <u>79762</u>															
Project Location: <u>State L'A</u>				Phone #: <u>438-248-8445</u>															
Sampler Name: <u>M. Rivera</u>				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					
<u>1902798</u>						X				X	X	X	<u>8-8-19</u>	<u>9:49</u>	X	X	X		
<u>11 Sp 11-2</u>						X				X	X	X		<u>10:00</u>	X	X	X		
<u>12 Sp 12-2</u>						X				X	X	X		<u>10:01</u>	X	X	X		
<u>13 Sp 13-2</u>						X				X	X	X		<u>10:02</u>	X	X	X		
<u>14 Sp 14-1</u>						X				X	X	X		<u>10:03</u>	X	X	X		
<u>15 Sp 15-1</u>						X				X	X	X		<u>10:04</u>	X	X	X		
<u>16 Sp 16-1</u>						X				X	X	X		<u>10:05</u>	X	X	X		
<u>17 Sp 17-1</u>						X				X	X	X		<u>11:00</u>	X	X	X		
<u>18 Sp 18-1</u>						X				X	X	X		<u>11:42</u>	X	X	X		

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Relinquished By: <u>Katym Montano</u>	Date: <u>8-15-19</u>	Received By: <u>Brandi Oldaker</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <u>Brandi Oldaker</u>	Date: <u>8-15-19</u>	Received By: <u>Brandi Oldaker</u>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) <u>2.0°/2.4 correct</u>	Time: <u>7:53</u>	Time: <u>8:55</u>	REMARKS: <u>Kmontanez@Hungry-Horse.com</u> <u>nbladden@Hungry-Horse.com</u>	
Sampler - UPS - Bus - Other: <u>#97</u>	Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <u>Bio T.</u>		



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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/22/2019
 Reported: 08/23/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: VANGUARD/ GRIZZLY

Sampling Date: 08/20/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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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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
 Reported: 08/23/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: VANGUARD/ GRIZZLY

Sampling Date: 08/20/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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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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
 Reported: 08/23/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: VANGUARD/ GRIZZLY

Sampling Date: 08/20/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2019	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 BTX	<0.300	0.300	08/22/2019	ND						

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

Chloride, SM4500CI-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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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
 Reported: 08/23/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: VANGUARD/ GRIZZLY

Sampling Date: 08/20/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2019	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 BTX	<0.300	0.300	08/22/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	08/23/2019	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
 Reported: 08/23/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: VANGUARD/ GRIZZLY

Sampling Date: 08/20/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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



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
 Reported: 08/23/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: VANGUARD/ GRIZZLY

Sampling Date: 08/20/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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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Celey D. Keene, Lab Director/Quality Manager



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
 Reported: 08/23/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: VANGUARD/ GRIZZLY

Sampling Date: 08/20/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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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Celey D. Keene, Lab Director/Quality Manager



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
 Reported: 08/23/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: VANGUARD/ GRIZZLY

Sampling Date: 08/20/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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
 Reported: 08/23/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: VANGUARD/ GRIZZLY

Sampling Date: 08/20/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: CLOSURE 1 - SP 5 (H902886-09)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2019	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 BTX	<0.300	0.300	08/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 73.3-129

Chloride, SM4500CI-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



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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
 Reported: 08/23/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: VANGUARD/ GRIZZLY

Sampling Date: 08/20/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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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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
 Reported: 08/23/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: VANGUARD/ GRIZZLY

Sampling Date: 08/21/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: CLOSURE 2 - SW 1 (H902886-11)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2019	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 BTX	<0.300	0.300	08/22/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/23/2019	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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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
 Reported: 08/23/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: VANGUARD/ GRIZZLY

Sampling Date: 08/21/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: CLOSURE 2 - SW 2 (H902886-12)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2019	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 BTX	<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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Celey D. Keene, Lab Director/Quality Manager



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
 Reported: 08/23/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: VANGUARD/ GRIZZLY

Sampling Date: 08/21/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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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Celey D. Keene, Lab Director/Quality Manager



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
 Reported: 08/23/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: VANGUARD/ GRIZZLY

Sampling Date: 08/21/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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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Celey D. Keene, Lab Director/Quality Manager



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
 Reported: 08/23/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: VANGUARD/ GRIZZLY

Sampling Date: 08/21/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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, SM4500CI-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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Celey D. Keene, Lab Director/Quality Manager



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
 Reported: 08/23/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: VANGUARD/ GRIZZLY

Sampling Date: 08/21/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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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Celey D. Keene, Lab Director/Quality Manager



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
 Reported: 08/23/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: VANGUARD/ GRIZZLY

Sampling Date: 08/21/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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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Analytical Results For:

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

Received: 08/22/2019
 Reported: 08/23/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: VANGUARD/ GRIZZLY

Sampling Date: 08/21/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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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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
 Reported: 08/23/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: VANGUARD/ GRIZZLY

Sampling Date: 08/21/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: CLOSURE 2 - SP 5 (H902886-19)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2019	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 BTX	<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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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
 Reported: 08/23/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: VANGUARD/ GRIZZLY

Sampling Date: 08/21/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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, SM4500CI-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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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
 Reported: 08/23/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: VANGUARD/ GRIZZLY

Sampling Date: 08/21/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: CLOSURE 3 - SW 1 (H902886-21)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2019	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 BTX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/23/2019	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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Celey D. Keene, Lab Director/Quality Manager



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
 Reported: 08/23/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: VANGUARD/ GRIZZLY

Sampling Date: 08/21/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: CLOSURE 3 - SW 2 (H902886-22)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2019	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 BTX	<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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Celey D. Keene, Lab Director/Quality Manager



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
 Reported: 08/23/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: VANGUARD/ GRIZZLY

Sampling Date: 08/21/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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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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
 Reported: 08/23/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: VANGUARD/ GRIZZLY

Sampling Date: 08/21/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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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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
 Reported: 08/23/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: VANGUARD/ GRIZZLY

Sampling Date: 08/21/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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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Analytical Results For:

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

Received: 08/22/2019
 Reported: 08/23/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: VANGUARD/ GRIZZLY

Sampling Date: 08/21/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: CLOSURE 3 - SP 2 (H902886-26)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2019	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 BTX	<0.300	0.300	08/22/2019	ND						

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

Chloride, SM4500CI-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



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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
 Reported: 08/23/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: VANGUARD/ GRIZZLY

Sampling Date: 08/21/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: CLOSURE 3 - SP 3 (H902886-27)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/22/2019	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 BTX	<0.300	0.300	08/22/2019	ND						

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

Chloride, SM4500CI-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, 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
 Reported: 08/23/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: VANGUARD/ GRIZZLY

Sampling Date: 08/21/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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



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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
 Reported: 08/23/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: VANGUARD/ GRIZZLY

Sampling Date: 08/21/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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, 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
 Reported: 08/23/2019
 Project Name: STATE L'A
 Project Number: NONE GIVEN
 Project Location: VANGUARD/ GRIZZLY

Sampling Date: 08/21/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: COMP 3 (H902886-30)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2019	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 BTX	<0.300	0.300	08/22/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500CI-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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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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*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



CARDINAL
Laboratories

10/23

kusn

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]

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Relinquished By: <i>Harlym Montenez</i>		Date: <i>8/22/19</i>	Received By: <i>Jodi Benson</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Time: <i>10:40</i>				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
Relinquished By:		Date:	Received By:	REMARKS: <i>Kmontanez@Hungry-Horse.com</i> <i>nGladden@Hungry-Horse.com</i>
		Time:		
Delivered By: (Circle One) <i>1.82 #97</i>		Sample Condition	CHECKED BY: <i>[Signature]</i>	
Sampler - UPS - Bus - Other: <i>Corrected 2.32</i>		Cool <input type="checkbox"/> Yes <input type="checkbox"/> No Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		



CARDINAL Laboratories

2 of 3

Rush

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

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

Company Name: <u>Vanguard Linzuu</u>				BILL TO				ANALYSIS REQUEST																							
Project Manager:				P.O. #:				<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> <u>Chlorides</u> <u>Black</u> <u>TPH</u> </div> <div></div> </div>																							
Address:				Company:																											
City: State: Zip:				Attn:																											
Phone #: Fax #:				Address:																											
Project #: Project Owner:				City:																											
Project Name:				State: Zip:																											
Project Location: <u>State LIA</u>				Phone #:																											
Sampler Name: <u>008</u>				Fax #:																											
FOR LAB USE ONLY																															
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS														MATRIX		PRESERV.		SAMPLING							
								GROUNDWATER																							
								WASTEWATER																							
								SOIL																							
								OIL																							
								SLUDGE																							
								OTHER:																							
								ACID/BASE:																							
								ICE / COOL																							
								OTHER:																							
												DATE		TIME																	
<u>H902886</u>		<u>Closure 2-Sw1</u>		<u>0</u>		<u>1</u>						<u>8-21-19</u>		<u>8:00</u>		<u>X</u>															
		<u>Closure 2-Sw2</u>		<u>0</u>		<u>1</u>								<u>8:12</u>		<u>X</u>															
		<u>Closure 2-Sw3</u>		<u>0</u>		<u>1</u>								<u>8:21</u>		<u>X</u>															
		<u>Closure 2-Sw4</u>		<u>0</u>		<u>1</u>								<u>8:29</u>		<u>X</u>															
		<u>Closure 2-Sp1</u>		<u>0</u>		<u>1</u>								<u>8:35</u>																	
		<u>Closure 2-Sp2</u>		<u>0</u>		<u>1</u>								<u>8:48</u>																	
		<u>Closure 2-Sp3</u>		<u>0</u>		<u>1</u>								<u>8:57</u>																	
		<u>Closure 2-Sp4</u>		<u>0</u>		<u>1</u>								<u>9:07</u>																	
		<u>Closure 2-Sp5</u>		<u>0</u>		<u>1</u>								<u>9:16</u>																	
		<u>Comp 8</u>		<u>0</u>		<u>1</u>								<u>9:27</u>		<u>✓</u>															

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Relinquished By:	Date:	Received By:	Phone Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
<u>Katym Montenegro</u>	<u>8/22/19</u>	<u>Jodi Jensen</u>	Fax Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:		
	Time:		<u>Kmontenegro@Hungry-Horse.com</u>		
			<u>NGladden@Hungry-Horse.com</u>		
Delivered By: (Circle One)	1.8c	#97	CHECKED BY:		
Sampler - UPS - Bus - Other:	Corrected 2.2c		(Initials)		
			<input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		



CARDINAL Laboratories

30F3

Kush

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

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

Company Name: <u>Vanguard / Grizzly</u>				BILL TO				ANALYSIS REQUEST													
Project Manager:				P.O. #:																	
Address:				Company:																	
City:		State:		Zip:		Attn:															
Phone #:		Fax #:		Address:																	
Project #:		Project Owner:		City:																	
Project Name:				State:																Zip:	
Project Location: <u>State C'A</u>				Phone #:																	
Sampler Name:				Fax #:																	
FOR LAB USE ONLY																					
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX				PRESERV.		SAMPLING							
								GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				ACID/BASE: ICE / COOL OTHER:		DATE TIME							
<u>H902886</u>				<u>G</u>		<u>1</u>						<u>X</u>		<u>8-2-19 9:45</u>							
<u>21</u>		<u>Closure 3-Sw1</u>		<u>G</u>		<u>1</u>						<u>X</u>		<u>9:58</u>							
<u>22</u>		<u>Closure 3-Sw2</u>		<u>G</u>		<u>1</u>						<u>X</u>		<u>10:10</u>							
<u>23</u>		<u>Closure 3-Sw3</u>		<u>G</u>		<u>1</u>						<u>X</u>		<u>10:22</u>							
<u>24</u>		<u>Closure 3-Sw4</u>		<u>G</u>		<u>1</u>						<u>X</u>		<u>10:43</u>							
<u>25</u>		<u>Closure 3-Sp1</u>		<u>G</u>		<u>1</u>						<u>X</u>		<u>10:49</u>							
<u>26</u>		<u>Closure 3-Sp2</u>		<u>G</u>		<u>1</u>						<u>X</u>		<u>11:00</u>							
<u>27</u>		<u>Closure 3-Sp3</u>		<u>G</u>		<u>1</u>						<u>X</u>		<u>11:09</u>							
<u>28</u>		<u>Closure 3-Sp4</u>		<u>G</u>		<u>1</u>						<u>X</u>		<u>11:18</u>							
<u>29</u>		<u>Closure 3-Sp5</u>		<u>G</u>		<u>1</u>						<u>X</u>		<u>11:32</u>							
<u>30</u>		<u>Comp 3</u>		<u>G</u>		<u>1</u>						<u>X</u>									

Unirules
BTA
TPH

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Relinquished By: <u>Kathryn Montenegro</u>		Date: <u>8/2/19</u>		Received By: <u>Jodi Benson</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Time: <u>10:40</u>		Time: <u>10:40</u>		Time: <u>10:40</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS:			
Time:		Time:		Time:		<u>Kmontenegro@Hungry-Horse.com</u>			
Delivered By: (Circle One) <u>1.82</u>		<u>#97</u>		Sample Condition		<u>NGadden@Hungry-Horse.com</u>			
Sampler - UPS - Bus - Other: <u>Corrected 2.22</u>				Cool Intact					
				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
				<input type="checkbox"/> Yes <input type="checkbox"/> No					
				CHECKED BY: <u>[Signature]</u>					
				(Initials)					



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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	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 BTX	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

Cardinal Laboratories

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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: 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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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: 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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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: 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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Celey D. Keene, Lab Director/Quality Manager



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 # 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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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: NH - 1 @ SURFACE (H904097-06)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	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 BTX	1.57	0.300	12/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	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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 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: 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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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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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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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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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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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: 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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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: WH - 1 B @ 2' (H904097-15)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/10/2019	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 BTX	<0.300	0.300	12/10/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	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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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: SH - 2 B @ SURFACE (H904097-16)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/10/2019	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 BTX	<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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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: SH - 2 B @ 2' (H904097-17)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	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 BTX	<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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Analytical Results For:

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 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 @ SURFACE (H904097-18)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/10/2019	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 BTX	<0.300	0.300	12/10/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	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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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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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

c2 jo 22 ebgd



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Grizzly Energy, LLC		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Lance Crenshaw		Company: Grizzly Operating					
Address: 3100 Plains Hwy		Attn: Carmen Pitt					
City: Lovington		Address:					
State: NM Zip: 88260		City:					
Phone #: 575-396-2378 Fax #: 575-396-1429		State: Zip:					
Project #: 11510 Project Owner: Grizzly Energy, LLC		Phone #:					
Project Name: State LA TR 1.2		Fax #:					
Project Location: Rural Lea Co, NM							
Sampler Name:							
FOR LAB USE ONLY							
Lab I.D.	Sample I.D.	(G)RAB OR (C)JOMP.	# CONTAINERS	MATRIX		PRESERV	SAMPLING
				GROUNDWATER	WASTEWATER	SOIL	OIL
				SLUDGE	OTHER :	ACID/BASE:	ICE / COOL
				OTHER :	DATE	TIME	
H904097	SP#1021	1	1		12/5/15	10:00	Chloride
	SP#2021	1	1		12/5/15	10:15	TPH
	SP#3021	1	1		12/5/15	10:20	BTEX 8021
	SP#4021	1	1		12/5/15	10:25	
	SP#5021	1	1		12/5/15	10:40	
	NA-103021	1	1		12/5/15	11:00	
	NA-1021	1	1		12/5/15	11:10	
	EA-103021	1	1		12/5/15	11:15	
	EA-1021	1	1		12/5/15	11:25	
	EA-2603021	1	1		12/5/15	11:45	

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Relinquished By: *[Signature]* Date: 12/4/15 Time: 15:25
Received By: *[Signature]* Date: 12/4/15 Time: 15:25

Delivered By: (Circle One) 3.1st Sample Condition: Cool ☒ Intact ☐ Yes ☐ No ☐ No ☒ No

Sampler - UPS - Bus - Other: *[Signature]* 3.5th ☒ Yes ☐ No ☐ No ☒ No

REMARKS: Email results to lance@etechnv.com

Page 23 of 23



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue horizontal line.

Date: 1/10/20

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.



Grizzly Energy
4001 Penbrook Suite 201
Odessa TX, 79762

Project Name: State LA
Project Number: 19054-0003
Project Manager: Lindsey Salgado

Reported:
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)

Reporting									
Analyte	Result	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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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)

Reporting									
Analyte	Result	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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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)

Reporting									
Analyte	Result	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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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)

Reporting									
Analyte	Result	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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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)

Reporting									
Analyte	Result	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
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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
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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
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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
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Batch 2002034 - Anion Extraction EPA 300.0/9056A**Blank (2002034-BLK1)**

Prepared & Analyzed: 01/09/20 0

Chloride	ND	20.0	mg/kg							
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LCS (2002034-BS1)

Prepared: 01/09/20 0 Analyzed: 01/09/20 1

Chloride	249	20.0	mg/kg	250		99.5	90-110			
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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			
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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
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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 may differ slightly.

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Grizzly Energy	Project Name:	State LA	Reported: 01/10/20 12:04
4001 Penbrook Suite 201	Project Number:	19054-0003	
Odessa TX, 79762	Project Manager:	Lindsey Salgado	

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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Client: Eni Zely
 Project: State LA
 Project Manager: Lindsey Salgado
 Address: PO Box 1058
 City, State, Zip: _____
 Phone: _____
 Email: LSalgado@hungary-hors.com

Report Attention
 Report due by: _____
 Attention: Natali Gladde
 Address: _____
 City, State, Zip: _____
 Phone: _____
 Email: Ngladde@hungary-hors.com

Lab Use Only
 Lab WO# P001026 Job Number 19054-0003
 TAT 1D 3D ☒ ☐
 EPA Program RCRA CWA SDW
 Analysis and Method State

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	NM	CO	UT	AZ	Remarks
8:39	1/10/20	S	1	Sp1-2'	1	✓	✓	✓	✓									Smell bad
9:48	1/10/20			Sp2-2'	2	✓	✓	✓	✓									
10:39	1/10/20			Sp3-2'	3	✓	✓	✓	✓									
11:07	1/10/20			Sp4-2'	4	✓	✓	✓	✓									
12:18	1/10/20			Sp5-2'	5	✓	✓	✓	✓									

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) <u>Natali Gladde</u>	Date <u>1/8/20</u>	Time	Received by: (Signature) <u>Raina Lopez</u>	Date <u>1-8-2020</u>	Time <u>1030</u>	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>1-8-2020</u>	Time <u>1500</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>1/9/20</u>	Time <u>9:30</u>	
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.



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:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue rectangular background.

Date: 1/10/20

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.



Grizzly Energy
4001 Penbrook Suite 201
Odessa TX, 79762

Project Name: State 1A
Project Number: 19054-0003
Project Manager: Natalie Gladden

Reported:
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)

Reporting									
Analyte	Result	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)

Reporting									
Analyte	Result	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)

Reporting									
Analyte	Result	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)

Reporting									
Analyte	Result	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)

Reporting									
Analyte	Result	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)

Reporting									
Analyte	Result	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)

Reporting									
Analyte	Result	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
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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
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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
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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 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
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Batch 2002034 - Anion Extraction EPA 300.0/9056A**Blank (2002034-BLK1)**

Prepared & Analyzed: 01/09/20 0

Chloride	ND	20.0	mg/kg							
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LCS (2002034-BS1)

Prepared: 01/09/20 0 Analyzed: 01/09/20 1

Chloride	249	20.0	mg/kg	250		99.5	90-110			
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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			
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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
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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 may differ slightly.

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Grizzly Energy 4001 Penbrook Suite 201 Odessa TX, 79762	Project Name: State 1A Project Number: 19054-0003 Project Manager: Natalie Gladden	Reported: 01/10/20 12:06
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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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Client: Gr:227 y
 Project: State 1A
 Project Manager: N. Gladden
 Address: _____
 City, State, Zip _____
 Phone: _____
 Email: _____

Report Attention
 Report due by: Hungry Horse
 Attention: N. Gladden
 Address: _____
 City, State, Zip _____
 Phone: _____
 Email: ngladden@hungryhorse.com

Lab Use Only
 Lab WO# P001027 Job Number 19054-0003
 TAT 1D ☒ 3D ☐
 EPA Program RCRA ☐ CWA ☐ SDW ☐

Analysis and Method State

DRO/ORO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Chloride 300.0 TCEQ 1005 BGDOC - NM BGDOC - TX
 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	SW 1	1									
10:00	1-7-20			SW 2	2									
10:45	1-7-20			SW 3	3									
11:34	1-7-20			SW 4	4									
12:46	1-7-20			SW 5	5									
1:35	1-7-20			SW 6	6									
2:23	1-7-20			SW 7	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) <u>N. Gladden</u>	Date <u>1/8/20</u>	Time	Received by: (Signature) <u>[Signature]</u>	Date <u>1-8-2020</u>	Time <u>1030</u>	Lab Use Only
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>1-8-2020</u>	Time <u>1500</u>	Received by: (Signature) <u>Raina Lopez</u>	Date <u>1/9/20</u>	Time <u>9:30</u>	Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____						T1 _____ T2 _____ T3 _____
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA						AVG Temp °C <u>4</u>

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.

Client: Gr:2214
 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# P001027 Job Number 19054-0003
 TAT 1D ☒ 3D ☐
 EPA Program RCRA ☐ CWA ☐ SD ☐

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	NM	CO	UT	Remarks
9:20	1-7-20	S	1	SW 1-2'	1												
10:06	1-7-20			SW 2-2'	2												
10:45	1-7-20			SW 3-2'	3												
11:34	1-7-20			SW 4-2'	4												
12:46	1-7-20			SW 5-2'	5												
1:35	1-7-20			SW 6-2'	6												
2:23	1-7-20			SW 7-2'	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) <u>Natalie Gladden</u>	Date <u>1/8/20</u>	Time _____	Received by: (Signature) <u>[Signature]</u>	Date <u>1-8-2020</u>	Time <u>1030</u>	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>1-8-2020</u>	Time <u>1500</u>	Received by: (Signature) <u>Raina Lopez</u>	Date <u>1/9/20</u>	Time <u>9:30</u>	

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.



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:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue rectangular background.

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.



Grizzly Energy	Project Name:	State LA	Reported: 02/03/20 14:13
4001 Penbrook Suite 201	Project Number:	19054-0003	
Odessa TX, 79762	Project Manager:	Natalie Gladden	

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)**

Reporting									
Analyte	Result	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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		<i>102 %</i>		<i>50-150</i>	<i>2005035</i>	<i>01/31/20</i>	<i>01/31/20</i>	<i>EPA 8021B</i>	

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	
<i>Surrogate: n-Nonane</i>		<i>106 %</i>		<i>50-200</i>	<i>2005033</i>	<i>01/31/20</i>	<i>01/31/20</i>	<i>EPA 8015D</i>	

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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		<i>86.8 %</i>		<i>50-150</i>	<i>2005035</i>	<i>01/31/20</i>	<i>01/31/20</i>	<i>EPA 8015D</i>	

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	Reported: 02/03/20 14:13
4001 Penbrook Suite 201	Project Number:	19054-0003	
Odessa TX, 79762	Project Manager:	Natalie Gladden	

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
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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
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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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Grizzly Energy	Project Name:	State LA	Reported: 02/03/20 14:13
4001 Penbrook Suite 201	Project Number:	19054-0003	
Odessa TX, 79762	Project Manager:	Natalie Gladden	

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
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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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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
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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							
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LCS (2005037-BS1)

Prepared: 01/31/20 0 Analyzed: 01/31/20 1

Chloride	253	20.0	mg/kg	250		101	90-110			
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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			
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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	
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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 may differ slightly.

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Grizzly Energy	Project Name:	State LA	Reported: 02/03/20 14:13
4001 Penbrook Suite 201	Project Number:	19054-0003	
Odessa TX, 79762	Project Manager:	Natalie Gladden	

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: <u>Gr 2214</u>		Report Attention		Lab Use Only		TAT		EPA Program				
Project: <u>Stake LA</u>		Report due by:		Lab WO#		1D		3D		RCRA	CWA	SDW
Project Manager: <u>Natalie Gladden</u>		Attention: <u>Natalie Gladden</u>		Job Number		19054-0003						
Address:		Address:		Analysis and Method						State		
City, State, Zip		City, State, Zip								NM		
Phone:		Phone: <u>575-390-6397</u>								CO		
Email:		Email: <u>ngladden@nursy-home.com</u>								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
2:00	1-29-20	soil	✓	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	Lab Use Only	
<u>Natalie Gladden</u>	<u>1/30/20</u>	<u>1:20</u>	<u>[Signature]</u>	<u>1-30-2020</u>	<u>1320</u>	Received on ice: <u>Y</u> N	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1	
<u>[Signature]</u>	<u>1-30-2020</u>	<u>1450</u>	<u>Raima Lopez</u>	<u>1/30/20</u>	<u>14:30</u>	T2	
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						AVG Temp °C	T3
						<u>4</u>	

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.



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:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue rectangular background.

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.



Grizzly Energy
4001 Penbrook Suite 201
Odessa TX, 79762

Project Name: State LA
Project Number: 19054-0003
Project Manager: Fabian Franco

Reported:
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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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)

Reporting									
Analyte	Result	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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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)**

Reporting									
Analyte	Result	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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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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Grizzly Energy	Project Name:	State LA	Reported: 02/25/20 14:50
4001 Penbrook Suite 201	Project Number:	19054-0003	
Odessa TX, 79762	Project Manager:	Fabian Franco	

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
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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			
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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			
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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			
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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	Reported: 02/25/20 14:50
4001 Penbrook Suite 201	Project Number:	19054-0003	
Odessa TX, 79762	Project Manager:	Fabian Franco	

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
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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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Grizzly Energy
4001 Penbrook Suite 201
Odessa TX, 79762

Project Name: State LA
Project Number: 19054-0003
Project Manager: Fabian Franco

Reported:
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
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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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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
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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							
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LCS (2009002-BS1)

Prepared: 02/24/20 0 Analyzed: 02/24/20 1

Chloride	253	20.0	mg/kg	250		101	90-110			
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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			
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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	
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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 may differ slightly.

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Grizzly Energy	Project Name:	State LA	Reported: 02/25/20 14:50
4001 Penbrook Suite 201	Project Number:	19054-0003	
Odessa TX, 79762	Project Manager:	Fabian Franco	

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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 5796 US Highway 64, Farmington, NM 87401 Ph (505) 632-1381 Fx (505) 632-1865 labadmin@envirotech-inc.com
 24 Hour Emergency Response Phone (800) 362-1879



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:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue horizontal line.

Date: 3/2/20

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.



Grizzly Energy
4001 Penbrook Suite 201
Odessa TX, 79762

Project Name: State LA
Project Number: 19054-0003
Project Manager: Natalie Gladden

Reported:
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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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)**

Reporting									
Analyte	Result	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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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)**

Reporting									
Analyte	Result	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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		<i>103 %</i>		<i>50-150</i>	<i>2009035</i>	<i>02/28/20</i>	<i>02/28/20</i>	<i>EPA 8021B</i>	

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	
<i>Surrogate: n-Nonane</i>		<i>95.1 %</i>		<i>50-200</i>	<i>2009034</i>	<i>02/28/20</i>	<i>02/28/20</i>	<i>EPA 8015D</i>	

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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		<i>93.1 %</i>		<i>50-150</i>	<i>2009035</i>	<i>02/28/20</i>	<i>02/28/20</i>	<i>EPA 8015D</i>	

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)**

Reporting									
Analyte	Result	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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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)

Reporting									
Analyte	Result	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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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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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

SW3**P002097-05 (Solid)**

Reporting									
Analyte	Result	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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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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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

SW4**P002097-06 (Solid)**

Reporting									
Analyte	Result	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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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)

Reporting									
Analyte	Result	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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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)**

Reporting									
Analyte	Result	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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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
4001 Penbrook Suite 201
Odessa TX, 79762

Project Name: State LA
Project Number: 19054-0003
Project Manager: Natalie Gladden

Reported:
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
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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
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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	Reported: 03/02/20 14:21
4001 Penbrook Suite 201	Project Number:	19054-0003	
Odessa TX, 79762	Project Manager:	Natalie Gladden	

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
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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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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
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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 may differ slightly.

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Grizzly Energy	Project Name:	State LA	Reported: 03/02/20 14:21
4001 Penbrook Suite 201	Project Number:	19054-0003	
Odessa TX, 79762	Project Manager:	Natalie Gladden	

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: <u>City of El Paso</u>				Bill To				Lab Use Only				TAT		EPA Program								
Project: <u>State 2A</u>				Attention: <u>Natalie Gladden</u>				Lab WO# <u>P302097</u>				Job Number <u>19054-003</u>		1D	3D	RCRA	CWA	SDWA				
Project Manager:				Address:				Analysis and Method										State				
Address:				City, State, Zip				DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC - NM	BGDOC - TX		NM	CO	UT	AZ
City, State, Zip				Phone:															TX	OK		
Email:				Email: <u>Ngladden@hungerford.com</u>																		
Report due by:																						
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number																	
9:23	2/26/20	S	1	Composite mix 1	1																	
9:59	2/26/20			Composite mix 2	2																	
10:21	2/26/20			SW1	3																	
10:38	2/26/20			SW2	4																	
10:49	2/26/20			SW3	5																	
10:57	2/26/20			SW4	6																	
11:11	2/26/20			SW5	7																	
11:20	2/26/20			SW6	8																	

Additional Instructions:

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling 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) <u>[Signature]</u>	Date <u>2/27/20</u>	Time <u>8:00</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>2/27/20</u>	Time <u>8:00</u>	Lab Use Only Received on ice: <u>Y</u> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>2/27/20</u>	Time <u>12:49</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>2-27-2020</u>	Time <u>1249</u>	
Relinquished by: (Signature) <u>[Signature]</u>	Date <u>2-28-20</u>	Time <u>1125</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>2/28/20</u>	Time <u>11:45</u>	

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.



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



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:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue horizontal line.

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.





Grizzly Energy
4001 Penbrook Suite 201
Odessa TX, 79762

Project Name: State LA
Project Number: 19054-0002
Project Manager: Daniel Dominguez

Reported:
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	Reported: 08/19/20 15:04
4001 Penbrook Suite 201	Project Number:	19054-0002	
Odessa TX, 79762	Project Manager:	Daniel Dominguez	

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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	
<i>Surrogate: n-Nonane</i>		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	Reported: 08/19/20 15:04
4001 Penbrook Suite 201	Project Number:	19054-0002	
Odessa TX, 79762	Project Manager:	Daniel Dominguez	

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	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	
<i>Surrogate: n-Nonane</i>	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	Reported: 08/19/20 15:04
4001 Penbrook Suite 201	Project Number:	19054-0002	
Odessa TX, 79762	Project Manager:	Daniel Dominguez	

FL3
P008035-03 (Solid)

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						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						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						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						Batch: 2033040
Chloride	233	20.0	1	08/14/20	08/14/20	

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Grizzly Energy	Project Name:	State LA	Reported: 08/19/20 15:04
4001 Penbrook Suite 201	Project Number:	19054-0002	
Odessa TX, 79762	Project Manager:	Daniel Dominguez	

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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	
<i>Surrogate: n-Nonane</i>		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	Reported: 08/19/20 15:04
4001 Penbrook Suite 201	Project Number:	19054-0002	
Odessa TX, 79762	Project Manager:	Daniel Dominguez	

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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	
<i>Surrogate: n-Nonane</i>		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	Reported: 08/19/20 15:04
4001 Penbrook Suite 201	Project Number:	19054-0002	
Odessa TX, 79762	Project Manager:	Daniel Dominguez	

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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	
<i>Surrogate: n-Nonane</i>		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	Reported: 08/19/20 15:04
4001 Penbrook Suite 201	Project Number:	19054-0002	
Odessa TX, 79762	Project Manager:	Daniel Dominguez	

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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	
<i>Surrogate: n-Nonane</i>		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	Reported: 08/19/20 15:04
4001 Penbrook Suite 201	Project Number:	19054-0002	
Odessa TX, 79762	Project Manager:	Daniel Dominguez	

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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	
<i>Surrogate: n-Nonane</i>		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	Reported: 08/19/20 15:04
4001 Penbrook Suite 201	Project Number:	19054-0002	
Odessa TX, 79762	Project Manager:	Daniel Dominguez	

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	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	
<i>Surrogate: n-Nonane</i>	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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Grizzly Energy	Project Name:	State LA	Reported: 08/19/20 15:04
4001 Penbrook Suite 201	Project Number:	19054-0002	
Odessa TX, 79762	Project Manager:	Daniel Dominguez	

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	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	
<i>Surrogate: n-Nonane</i>	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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Grizzly Energy	Project Name:	State LA	Reported: 08/19/20 15:04
4001 Penbrook Suite 201	Project Number:	19054-0002	
Odessa TX, 79762	Project Manager:	Daniel Dominguez	

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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	
<i>Surrogate: n-Nonane</i>		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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Grizzly Energy	Project Name:	State LA	Reported: 08/19/20 15:04
4001 Penbrook Suite 201	Project Number:	19054-0002	
Odessa TX, 79762	Project Manager:	Daniel Dominguez	

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	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	
<i>Surrogate: n-Nonane</i>	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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Grizzly Energy	Project Name:	State LA	Reported: 08/19/20 15:04
4001 Penbrook Suite 201	Project Number:	19054-0002	
Odessa TX, 79762	Project Manager:	Daniel Dominguez	

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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	
<i>Surrogate: n-Nonane</i>		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	Reported: 08/19/20 15:04
4001 Penbrook Suite 201	Project Number:	19054-0002	
Odessa TX, 79762	Project Manager:	Daniel Dominguez	

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	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	
<i>Surrogate: n-Nonane</i>	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	Reported: 08/19/20 15:04
4001 Penbrook Suite 201	Project Number:	19054-0002	
Odessa TX, 79762	Project Manager:	Daniel Dominguez	

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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	
<i>Surrogate: n-Nonane</i>		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	Reported: 08/19/20 15:04
4001 Penbrook Suite 201	Project Number:	19054-0002	
Odessa TX, 79762	Project Manager:	Daniel Dominguez	

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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	
<i>Surrogate: n-Nonane</i>		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	Reported: 08/19/20 15:04
4001 Penbrook Suite 201	Project Number:	19054-0002	
Odessa TX, 79762	Project Manager:	Daniel Dominguez	

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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	
<i>Surrogate: n-Nonane</i>		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	Reported: 08/19/20 15:04
4001 Penbrook Suite 201	Project Number:	19054-0002	
Odessa TX, 79762	Project Manager:	Daniel Dominguez	

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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	
<i>Surrogate: n-Nonane</i>		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	Reported: 08/19/20 15:04
4001 Penbrook Suite 201	Project Number:	19054-0002	
Odessa TX, 79762	Project Manager:	Daniel Dominguez	

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	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	
<i>Surrogate: n-Nonane</i>	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	Reported: 08/19/20 15:04
4001 Penbrook Suite 201	Project Number:	19054-0002	
Odessa TX, 79762	Project Manager:	Daniel Dominguez	

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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	
<i>Surrogate: n-Nonane</i>		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	Reported: 08/19/20 15:04
4001 Penbrook Suite 201	Project Number:	19054-0002	
Odessa TX, 79762	Project Manager:	Daniel Dominguez	

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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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	
<i>Surrogate: n-Nonane</i>		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
4001 Penbrook Suite 201
Odessa TX, 79762

Project Name: State LA
Project Number: 19054-0002
Project Manager: Daniel Dominguez

Reported:
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)
Oil Range Organics (C28-C40)

ND
ND

25.0
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)
Surrogate: n-Nonane

481
51.2

25.0
50.0

500
50.0

96.2
102

38-132
50-200

Matrix Spike (2033032-MS1)

Source: P008041-01

Prepared: 08/14/20 0 Analyzed: 08/14/20 1

Diesel Range Organics (C10-C28)
Surrogate: n-Nonane

498
46.7

25.0
50.0

500
50.0

ND
93.4

99.6
93.4

38-132
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)
Surrogate: n-Nonane

499
46.4

25.0
50.0

500
50.0

ND
92.8

99.8
92.8

38-132
50-200

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Grizzly Energy	Project Name:	State LA	Reported: 08/19/20 15:04
4001 Penbrook Suite 201	Project Number:	19054-0002	
Odessa TX, 79762	Project Manager:	Daniel Dominguez	

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							
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LCS (2033040-BS1)

Prepared & Analyzed: 08/14/20 1

Chloride	260	20.0	250		104	90-110			
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Matrix Spike (2033040-MS1)

Source: P008035-01

Prepared & Analyzed: 08/14/20 1

Chloride	502	20.0	250	225	111	80-120			
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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							
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LCS (2033045-BS1)

Prepared: 08/14/20 1 Analyzed: 08/17/20 1

Chloride	253	20.0	250		101	90-110			
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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			
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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	
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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 may differ slightly.

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Grizzly Energy	Project Name:	State LA	Reported: 08/19/20 15:04
4001 Penbrook Suite 201	Project Number:	19054-0002	
Odessa TX, 79762	Project Manager:	Daniel Dominguez	

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: <u>Grizzly</u>				Bill To				Lab Use Only				TAT		EPA Program							
Project: <u>State LA</u>				Attention: <u>- Paid -</u>				Lab WO# <u>P008035</u>				Job Number <u>19054-0002</u>		1D 3D		RCRA CWA SDWA					
Project Manager: <u>Daniel Dominguez</u>				Address:				Analysis and Method										State			
Address:				City, State, Zip														NM CO UT AZ			
City, State, Zip				Phone:														TX OK			
Phone:				Email:																	
Email: <u>pm@hugob-hms.com</u>				Report due by:																	
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																
	8/3/20			FL2	2																
	8/3/20			FL3	3																
	8/3/20			FL4	4																
	8/3/20			FL5	5																
	8/3/20			FL6	6																
	8/3/20			FL7	7																
	8/3/20			FL8	8																
	8/3/20			FL9	9																
	8/3/20			FL10	10																
Additional Instructions:																					
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>[Signature]</u>												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 5 °C on subsequent days.									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only									
<u>[Signature]</u>		8/12/20		1525		<u>[Signature]</u>		8/12/2020		1525		Received on ice: <u>Y</u> N									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3									
<u>[Signature]</u>		8/12/2020		1700		<u>[Signature]</u>		8/13/2020		10:00											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C <u>4.0</u>									
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.																					

Client: <u>Grizzly</u>				Bill To				Lab Use Only				TAT		EPA Program			
Project: <u>State</u>				Attention: _____				Lab WO# <u>P008635</u>				Job Number <u>19054-0002</u>		1D 3D		RCRA CWA SDWA	
Project Manager: <u>Daniel Dominguez</u>				Address: _____				Analysis and Method						State			
Address: _____				City, State, Zip _____										NM CO UT AZ			
City, State, Zip _____				Phone: _____				DRO/ORO by 8015				GRO/DRO by 8015		BTX by 8021		VOC by 8260	
Phone: _____				Email: _____				Metals 6010				Chloride 300.0		BGDOC - NM		BGDOC - TX	
Email: <u>pm@hullgn-hors.com</u>																	
Report due by: _____																	
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	Remarks											
	8/3/20	S	1	FL 11	11												
	8/3/20			FL 12	12												
	8/3/20			FL 13	13												
	8/3/20			FL 14	14												
	8/3/20			FL 15	15												
	8/3/20			FL 16	16												
	8/3/20			FL 17	17												
	8/3/20			FL 18	18												
	8/3/20			FL 19	19												
	8/3/20			FL 20	20												
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 8/12/20		Time 1525		Received by: (Signature) _____		Date 8/12/20		Time 1525		Lab Use Only Received on ice: <u>Y</u> N					
Relinquished by: (Signature) _____		Date 8-12-2020		Time 1700		Received by: (Signature) _____		Date 8/13/20		Time 10:00		T1 _____ T2 _____ T3 _____					
Relinquished by: (Signature) _____		Date _____		Time _____		Received by: (Signature) _____		Date _____		Time _____		AVG Temp °C <u>4.0</u>					
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.																	

[illegible]

Attachment V
NMOCD Form C-141 Remediation and Closure Pages

Incident ID	NCE2002946094
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

Incident ID	NCE2002946094
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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@grizzlyenergylc.com Telephone: 432-248-8145

OCD Only

Received by: _____ Date: _____

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Remediation Plan

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

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

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

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Carmen E Pitt Title: Senior EHS Specialist
Signature: Carmen E Pitt Date: 9/14/2020
email: cpitt@grizzlyenergylc.com Telephone: 432-248-8145

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

Incident ID	NCE2002946094
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@grizzlyenergylc.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: _____