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Final Closure Report

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

Prepared For:

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

Prepared By:

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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
	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
51' – 100'	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

Page 11 of 287 Received by OCD: 9/14/2020 10:56:18 AM L-0137/1 Skelly Lo Skelly Lo L-12562-POD4 L-01584-POD1 L-04988 L-05456 L-14207-POD5

L=14207 POD7 L=12881-POD3 L=04988+S L-12881-POD2 L-14207 POD6 L-04988-POD3 L-14263-POD5 L=12562-POD11 L-14207 POD2 L-14207-POD4 -14207-POD1 1:4513 L=14207 POD8 Figure 2 Legend:

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

Lea County

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

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

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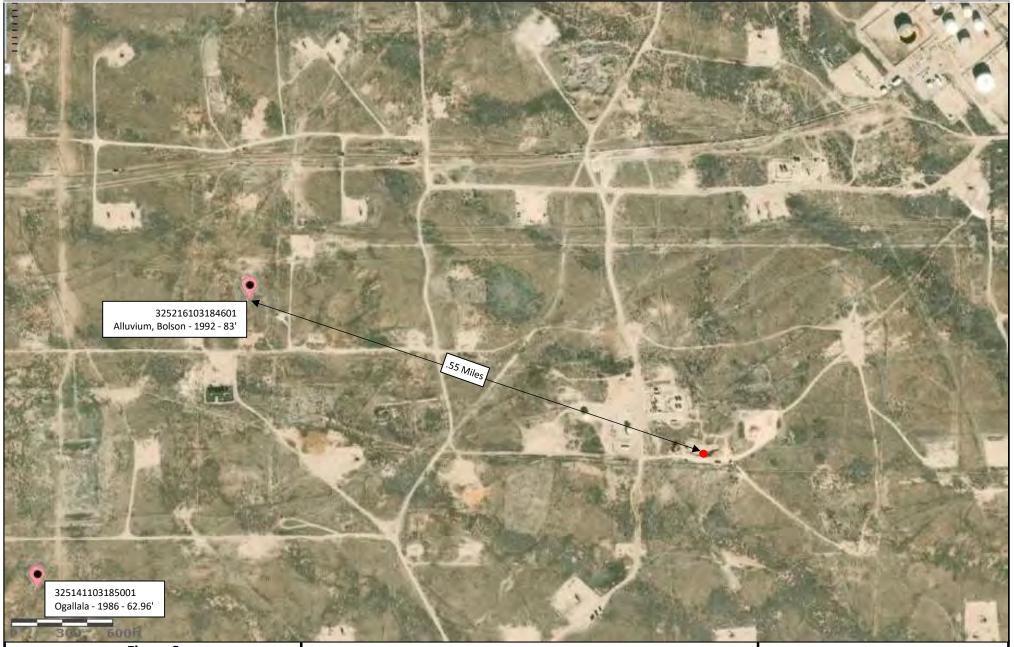


Figure 3

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







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: Imn

Checked: dd

Date: 8/3/20

Tables

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 Crite	ria		10	50	-	-	1,000	-	2,500	10,000

Summary of Soil Sample Laboratory Analytical Results Grizzly Energy State L "A" Tr 1.2

NMOCD Ref. #: nCH1828533458; NCE2002946094

		Depth		Benzene	8533458; N BTEX	GRO	DRO	GRO + DRO	ORO	ТРН	Chloride
Sample ID	Date	(ft)	Soil Status	(mg/kg)	(mg/kg)	C ₆ -C ₁₀ (mg/kg)	C ₁₀ -C ₂₈ (mg/kg)	C ₆ -C ₂₈	C ₂₈ -C ₃₆ (mg/kg)	C ₆ -C ₃₆ (mg/kg)	(mg/kg)
CD1	0/12/10	2	F	٠٥ ٥٥٥	40.200			(mg/kg)			406
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
	losure Crite	ria		10	50	-	-	1,000	-	2,500	10,000

NOTES:

Summary of Soil Sample Laboratory Analytical Results Grizzly Energy State L "A" Tr 1.2

NMOCD Ref. #: nCH1828533458; NCE2002946094

NMOCD Ref. #: nCH1828533458; NCE2002946094											I
Sample ID	Date	Depth	Soil Status	Benzene	ВТЕХ	GRO C ₆ -C ₁₀	DRO C ₁₀ -C ₂₈	DRO	ORO C ₂₈ -C ₃₆	TPH C ₆ -C ₃₆	Chloride
Sumpro 15		(ft)		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	C ₆ -C ₂₈ (mg/kg)	(mg/kg)	(mg/kg)	(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#1@2 SP#2@2'	12/5/19	2	Excavated	0.058	3.67	17.7	831	848.7	714	1,562.7	272
SP#2@2 SP#3@2'	12/5/19	2	Excavated	17.2	350			31,910		37,640	848
		2	Excavated	0.155	18.6	4,810 190	27,100 1,190		5,730 192	1,572	
SP#4@2'	12/5/19	2					-	1,380			112
SP#5@2'	12/5/19		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 Surf	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 Curf	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
Тор	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
	losure Crite			10	50	-	-	1,000	-	2,500	10,000

NOTES:

Summary of Soil Sample Laboratory Analytical Results Grizzly Energy State L "A" Tr 1.2

NMOCD Ref. #: nCH1828533458; NCE2002946094

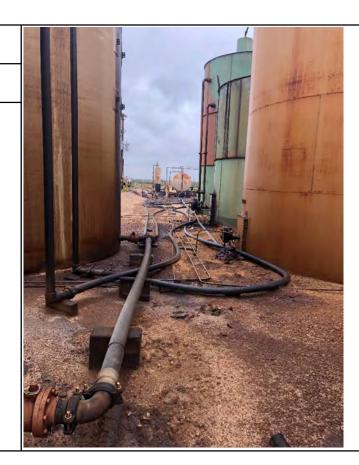
Sample ID	Date	Depth (ft)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL1	8/3/20	4.5	In-Situ	ND	ND	ND	ND	ND	ND	ND	225
FL2	8/3/20	4.5	In-Situ	ND	ND	ND	ND	ND	ND	ND	258
FL3	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 C	losure Crite	ria		10	50	-	-	1,000	-	2,500	10,000

Attachment I Site Photographs

Photo 1

Direction East

Description: September 2018 release area



Photo

2

Direction East

Description:

September 2018 release area



Photo

3

Direction West

Description:

September 2018 release area



Photo

4

Direction

West

Description:

September 2018 release area



Photo 5

Direction West

Description: Excavation of 2018 release area

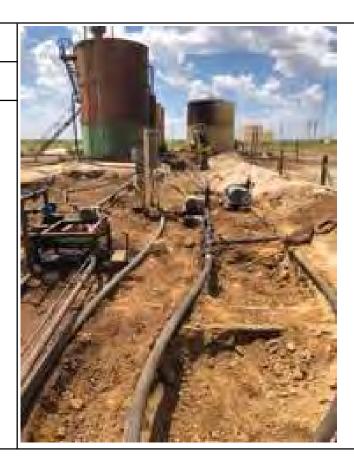


Photo 6

Direction

Southeast

Description: Excavation of 2018 release area



Photo 7

Direction West

Description:

Backfilled



Photo 8

Direction East

Description:

Backfilled



Photo 9

Direction North

Description:

2019 Release area and lease sign



Photo

10

Direction

South

Description:

2019 Release area



Photo

11

Direction Northeast

Description:

2019 Release area and sampling



Photo

12

Direction

Northeast

Description:

2019 Release area



Photo 13

Direction West

Description: Excavation activities

after facility
deconstruction



Photo

14

Direction North

Description:

Excavation activities after facility deconstruction



Photo 15

Direction East

Description: Excavation activities after facility deconstruction



Photo 16

Direction West

Description: Excavation activities after facility

deconstruction



Photo 17 Direction Northwest

Description:Backfilling



Photo 18

Direction Northeast

Description:Backfilling



Photo 19

DirectionEast

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-	County		Q 16		Sac	Twe	Pna	x	Y	Distance			Water Column
L 04988	Code b	L	LE	04				17S	36E	658510	3638089*	236	195	55	140
L 14207 POD1		L	LE	3	3	2	01	178	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	178	36E	658222	3637712 🌑	452	230	101	129
L 02508		L	LE	2	2	2	01	178	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 17S 36E 2 01

658510 3638089*

Driller License:

Driller Company:

ABBOTT BROTHERS COMPANY

Driller Name:

MURRELL ABBOTT

Drill Start Date: 01/02/1963

L 04988

Drill Finish Date: 01/03/1963 08/14/1963

Plug Date: Source:

Shallow

Log File Date: **Pump Type:**

01/10/1963 TURBIN

PCW Rcv Date: Pipe Discharge Size:

5

185 GPM **Estimated Yield:**

Casing Size:

9.63

Depth Well:

195 feet

Depth Water:

55 feet

Water Bearing Stratifications:

Top **Bottom Description** Other/Unknown

55 170

Casing Perforations:

Bottom Top

190 55

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8/4/20 12:06 PM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



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

3 3 2 01 17S 36E

658500 3637679

019

Driller License: 1456

Driller Company:

WHITE DRILLING COMPANY

Driller Name: WHITE, JOHN W

Drill Start Date: 10/07/2016 **Log File Date:** 12/12/2016

4.00

L 14207 POD1

Drill Finish Date: 10/12/2016 Plug Date: PCW Rcy Date: Source:

240 feet

Source: Shallow

Pump Type: Casing Size: Pipe Discharge Size:

Depth Well:

Estimated Yield:

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:	Тор	Bottom	
	90	230	

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 1:42 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

L 12562 POD11

2 01 17S 36E 658989 3637831

Driller License:

1210

Driller Company:

CASCADE DRILLING, LP

Driller Name:

BRYAN NYDOSKE

Drill Start Date: 05/20/2010

2.00

06/08/2010

Drill Finish Date: PCW Rcv Date:

05/20/2010

Plug Date:

Shallow

Log File Date:

Source:

Pump Type: Casing Size: Pipe Discharge Size: Depth Well:

Estimated Yield: 112 feet Depth Water:

97 feet

Water Bearing Stratifications:

Bottom Description Top

0 Other/Unknown

7 Sandstone/Gravel/Conglomerate

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.

8/26/20 2:39 PM

POINT OF DIVERSION SUMMARY



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

L 12562 POD4

2 36 16S 36E 658584

3638296

Driller License:

1210

Driller Company:

CASCADE DRILLING, LP

Driller Name:

2.00

BRYAN NYDOSKE

05/24/2010

Plug Date:

Drill Start Date: Log File Date:

05/24/2010 06/08/2010 **Drill Finish Date: PCW Rcv Date:**

Source:

Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well:

121 feet

Depth Water:

106 feet

Water Bearing Stratifications:

Bottom Description Top 0

Other/Unknown

5 Sandstone/Gravel/Conglomerate

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.

8/26/20 2:40 PM



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

Q64 Q16 Q4 Sec Tws Rng

X

L 14207 POD2

4 1 01 17S 36E

658222 3637712

Driller License:

: 1456

Driller Company:

WHITE DRILLING COMPANY

Driller Name: W

WHITE, JOHN W

4.00

10/05/2016

Drill Finish Date:

10/12/2016

Plug Date:

Drill Start Date: Log File Date:

12/12/2016

PCW Rcv Date: Pipe Discharge Size: Source: Estimated Yield: Shallow

Pump Type: Casing Size:

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:	Тор	Bottom	
	90	220	

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 1:43 PM



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

TIDOS O TIVI III III CICIO)

L 02508

2 2 01 17S 36E

659013 3638194*

Driller License:

Driller Company:

TATUM CLAUDE E.

Driller Name: TATUM, CLAUDE E.

11/17/1954

Drill Finish Date:

11/20/1954

Plug Date:

Source:

Shallow

Log File Date: Pump Type:

*UTM location was derived from PLSS - see Help

Drill Start Date:

11/26/1954 TURBIN PCW Rcv Date:

08/15/1955

Estimated Yield: 115 GPM

Casing Size:

7.00

Pipe Discharge Size: Depth Well:

120 feet

Depth Water:

40 feet

Water Bearing Stratifications:

Top Bottom Description

40 120 S

120 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom 60 120

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8/4/20 2:50 PM



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

L 01371

3 4 36 16S 36E

658603 3638389*

Driller License:

Driller Company:

ABBOTT BROTHERS COMPANY

Driller Name:

ABBOTT, CLYDE

02/22/1952

Drill Finish Date: 02/23/1952 Plug Date:

08/31/1953

Drill Start Date: Log File Date:

02/25/1952

PCW Rcv Date:

Source:

Shallow

11/19/1953

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well:

115 feet

Depth Water:

45 feet

Water Bearing Stratifications:

Bottom Description

45

Top

115 Sandstone/Gravel/Conglomerate

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

^{*}UTM location was derived from PLSS - see Help



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

L 01584 POD1

17S 36E 01

658107 3638083*

Driller License:

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

7.00

PCW Rcv Date:

Shallow Source:

Estimated Yield:

Pump Type: Casing Size: Pipe Discharge Size:

Depth Well:

110 feet

Depth Water:

48 feet

Water Bearing Stratifications:

Top **Bottom Description**

Sandstone/Gravel/Conglomerate

Casing Perforations:

Bottom Top

109 87

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.

53

8/4/20 1:26 PM

^{*}UTM location was derived from PLSS - see Help



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

L 01438

36 16S 36E 658504 3638490*

Driller License:

Driller Company:

ABBOTT BROTHERS COMPANY

Driller Name:

Drill Start Date: 05/05/1952 **Drill Finish Date: PCW Rcv Date:**

Depth Well:

05/06/1952

Plug Date:

04/30/1954

Log File Date:

05/20/1952

06/09/1958

Source:

Shallow

Pump Type: Casing Size: Pipe Discharge Size:

Estimated Yield:

45 feet

110 feet

Depth Water:

Water Bearing Stratifications:

Bottom Description Top

110 Sandstone/Gravel/Conglomerate 44

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 2:14 PM

^{*}UTM location was derived from PLSS - see Help



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

v v

L 10633

4 13 17S 36E

659026 3637389*

*

Driller License:

586

12.75

Driller Company:

MARSH, KENNETH RAY

Driller Name: KEN MARSH

Drill Start Date: 04/17/2001

Drill Finish Date:
PCW Rcy Date:

Depth Well:

04/19/2001 11/07/2003 Plug Date: Source:

Shallow

Log File Date: Pump Type: Casing Size: 07/16/2001 SUBMER

Pipe Discharge Size:

6 209 feet Estimated Yield:
Depth Water:

800 GPM 80 feet

Water Bearing Stratifications:

TopBottomDescription80160Shallow Alluvium/Basin Fill172201Shallow Alluvium/Basin Fill201204Shallow Alluvium/Basin Fill

Casing Perforations:

Top Bottom

89 209

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9/9/20 2:15 PM

^{*}UTM location was derived from PLSS - see Help



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** L 04988 S

Q64 Q16 Q4 Sec Tws Rng 17S 36E 2 1 01

658006 3637982*

Driller License:

Driller Company:

ABBOTT BROTHERS COMPANY

Driller Name:

Drill Start Date: 01/30/1963 **Drill Finish Date:**

02/02/1963 08/14/1963

Plug Date:

Shallow

Log File Date:

03/04/1963 TURBIN

PCW Rcv Date: Pipe Discharge Size:

5

Source: **Estimated Yield:**

188 GPM

Pump Type: Casing Size:

9.63

Depth Well:

182 feet

Depth Water:

55 feet

Water Bearing Stratifications:

Top **Bottom Description** 55

178 Other/Unknown

Casing Perforations:

Bottom Top

178 55

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8/4/20 1:40 PM

^{*}UTM location was derived from PLSS - see Help



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

Driller License: Driller Company: ABBOTT BROTHERS COMPANY

Driller Name:

Drill Start Date: 03/02/1954 **Drill Finish Date:** 03/03/1954 Plug Date:

Log File Date: 03/30/1954 **PCW Rcv Date:** 08/15/1955 Shallow Source:

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 Sandstone/Gravel/Conglomerate 95 Sandstone/Gravel/Conglomerate

Casing Perforations: Top **Bottom** 50 137

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9/9/20 2:16 PM

^{*}UTM location was derived from PLSS - see Help



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

17S 36E 13

659026 3637189*

Driller License:

586

L 10633 S

Driller Company:

MARSH, KENNETH RAY

Driller Name: KEN MARSH

Drill Start Date: Log File Date:

04/20/2001 **Drill Finish Date:** 07/16/2001 **PCW Rcv Date:**

04/25/2001 11/07/2003 Plug Date: Source:

Shallow

Pump Type: Casing Size: **SUBMER**

12.75

Pipe Discharge Size: Depth Well:

6 228 feet

Bottom Description

Estimated Yield: Depth Water:

800 GPM 120 feet

Water Bearing Stratifications:

18

159 Shallow Alluvium/Basin Fill

182

Top

Shallow Alluvium/Basin Fill

Casing Perforations:

Top **Bottom**

135 228

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9/9/20 2:16 PM

^{*}UTM location was derived from PLSS - see Help



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

2 3 1 01 17S 36E

657808 3637773*

1113

Driller License: 322 **Driller Company:** BACKUS, GRADY

Driller Name: GRADY BACKUS

L 05486

Drill Start Date: 05/28/1973 **Drill Finish Date:** 06/04/1973 **Plug Date:**

Log File Date: 07/18/1973 **PCW Rcv Date:** 03/27/1975 Shallow Source: **Pump Type:** TURBIN Pipe Discharge Size: 400 GPM 6 **Estimated Yield: Casing Size:** 12.75 Depth Well: 225 feet Depth Water: 62 feet

Water Bearing Stratifications: **Bottom Description** Top 62 Sandstone/Gravel/Conglomerate 86 Sandstone/Gravel/Conglomerate 114 128 Sandstone/Gravel/Conglomerate Sandstone/Gravel/Conglomerate 138 158 **Casing Perforations:** Top **Bottom**

Casing Perforations: Top Bottom
170 220

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

^{*}UTM location was derived from PLSS - see Help



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

L 14263 POD3

17S 36E 4 01

3638715

Driller License:

1731

Driller Company:

HARRISON & COOPER, INC (WD-1731)

658914

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

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9/9/20 2:17 PM



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National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater Geographic Area:

United States ✓ GO

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Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 325141103185001

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 325141103185001 17S.36E.02.244233

Lea County, New Mexico Latitude 32°51'55", Longitude 103°19'01" NAD27 Land-surface elevation 3,832.00 feet above NGVD29 The depth of the well is 150 feet below land surface.

This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats

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

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

Explanation

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

Questions about sites/data? Feedback on this web site

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

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





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National Water Information System: Web Interface

USGS Water Resources

Data Category:		deographic Area:			
Groundwater	~	United States	~	GO	ı

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Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 325216103184601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 325216103184601 17S.36E.01.1120

Lea County, New Mexico Latitude 32°52'13", Longitude 103°18'46" NAD27

Land-surface elevation 3,836 feet above NGVD29

The depth of the well is 232 feet below land surface.

The depth of the hole is 232 feet below land surface.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

Date	Time	? Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1992-05-0	1	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	Α	Approved for publication Processing and review completed.

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips **Explanation of terms** Subscribe for system changes **News**

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

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2020-08-04 16:51:21 EDT 0.3 0.28 nadww01



Attachment III Field Data

State L.A. Pil	1d data 10/17/18
Spl - Surf 120 612	5011 545 630
1' 82	1 320
5/2 surf 6/2	2' 240
1 392	Sp12 SW 330
503 Shrf 924	1 380 < 30
1 392	2 230
5p4 8hrf 230	Sp13 sur 752
1 274	1 274
5p5 swf 230	2 392
1' - 430	5014 SW 148
5plo-surf 130	1' 274
1 176	2', 132
2 430	3 230
Sp7. Swc 430	Sp15 sur 424
1' 60	1' 274
2' 82	2' 424
Sp8 Sur L30	5 532
1' 494	4 424 lab
2 148	Spile sur 1064
5pg Sur <30	
1'-160	2 /72
2 80	3 274
Sp10 Sm- <30	4' 274 lal
1' 80	· · · · · · · · · · · · · · · · · · ·
7 80	

Sp 17 Surf 230	Sp23 SW <30
1' 194	1 <30
2', 102	sp24 sur <30
3 124	1 82
	2 246 las
Sp18 Sur 230	Sp 25 Sur 230
1' 124	\\ \tag{20}
2, 220	2 430
3 196	Sp26 sur 230
Sp19 sur 230	2' 196
1 458	Sp 27 Sux 230
2', 274	1 230
3 707	2 430
	2, 230 3 230
Sp 20 sor 424	@ Sp 28 Sur _ 30
1 532	1 102
2', Wet	
3 274	SW Sur <30
21 800	SW Sur ~30 1 990 July
Sy 21 Sur 230	SW2 102 lm
1 230	1 103
Sp22 SW 230	10 -5
1 430	SW3 SWF 430
	1 194
	·

Received by OCD	. 7/14/2020 10:00:10 /ki/2	1 uge 50 0j 207
	SW4- Surf 230	
	1' 196	
	SW5- Sur 230 1 862	
	7	
	SW6 Sur 430	
	1 236	
- 7		

Attachment IV Laboratory Analytical Reports



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/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



10/17/2018

Cool & Intact

Tamara Oldaker

Soil

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

Analytical Results For:

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

Received: Reported:

10/24/2018

10/30/2018

Project Name: Project Number: STATE L 'A' BATTERY

NONE GIVEN

Project Location:

NOT GIVEN

_ _ _

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

BTEX 8021B	mg/	kg	Analyze	d 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 9	% 69.8-14	2						
Chloride, SM4500CI-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 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	91.19	% 37.6-14	7						

Cardinal Laboratories

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Celey D. Keine



Analytical Results For:

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

Received: Reported: 10/24/2018

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 Cool & Intact

Sampling Condition: Sample Received By:

Tamara Oldaker

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

BTEX 8021B	mg,	/kg	Analyze	d 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	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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Celeg D. Freene



Analytical Results For:

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

Received:

10/24/2018

Sampling Date:

10/17/2018

Reported:

10/30/2018

Sampling Type:

Soil

Project Name:

STATE L 'A' BATTERY

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

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

BTEX 8021B	mg	/kg	Analyze	d 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	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

Cardinal Laboratories

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Celey D. Keine



Analytical Results For:

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

Received: Reported:

RTFY 8021R

10/24/2018

10/30/2018

Project Name:

STATE L 'A' BATTERY

Project Number:

NONE GIVEN

ma/ka

Project Location:

NOT GIVEN

Sampling Date: 10/19/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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

B1EX 8021B	mg	/ kg	Anaiyze	а ву: м5					
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	% 69.8-14	2						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/25/2018	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

Analyzed By: MC

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Celey D. Keine



Analytical Results For:

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

Received: Reported: 10/24/2018

10/30/2018

Project Name:

STATE L 'A' BATTERY

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date: 10/19/2018

Sampling Type:

Sampling Condition: Sample Received By: Cool & Intact

Soil

Tamara Oldaker

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

BTEX 8021B	mg,	/kg	Analyze	d 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	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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Celeg D. Keene



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: Project Number: STATE L 'A' BATTERY

Project Location:

NONE GIVEN **NOT GIVEN**

90.1 %

37.6-147

Sampling Date:

10/19/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact 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	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	91.69	% 41-142							

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

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Celey D. Keine



Notes and Definitions

The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or S-06 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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Celeg D. Freene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Vanqualo,			ANALYSIS REQUEST
Project Manager: Browf White	P.O. #:		
Address:	Company: White	White Bullato	
City: State:	zip: Attn: Steve TYPE For	-me Farlin	
Phone #: Fax #:	Address: 8908 Vale	08 Male Ave 210	
Project #: Project Owner:	r: City: July	9	
Project Name:	State: OK Z	Zip: 74/37	
Project Location: State 1 A Batter		Phone #: 918-660-0999	
Sampler Name:	Fax #:		
FOR LAB USE ONLY	MATRIX PRESERV.	SAMPLING	
Lab I.D. Sample I.D.	G)RAB OR (C)OMP CONTAINERS GROUNDWATER WASTEWATER SOIL DIL SLUDGE DTHER: ACID/BASE: CE / COOL DTHER:	Chloride BTex TPH	
1501-1	\ \ \	1 X X 10 DH:11 18:[1:0]	
25041	\ \ \	0.17.18 1:37 100 4	
3.555-1	+	15-15 15-15 St. 1 81-4-01	
456al-1	- 	10.19.18 12:30 10 0	
55022-1		10:19:18 12:40 16 16 16	
6 < 0 & 3 · 1		_	
	,		
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the another handless had been a contracted to the amount paid by the client for the another handless had been a contracted to the amount paid by the client for the another handless had been a contracted to the amount paid by the client for the another handless had been a contracted to the amount paid by the client for the another handless had been a contracted to the amount paid by the client for the amount paid by t	any claim arising whether based in contract or tort, shall be limited to	the amount paid by the client for the hin 30 days after completion of the applicable	

Relinquished By: Relinquished By: Sampler - UPS - Bus - Other: Delivered By: (Circle One) Date: Time: SV: the 6.4 Received By: Received By: Sample Condition
Cool Intact
Yes Yes
No No CHECKED BY: (Initials) Lynail: Gyes No Add"Fax#:

| Phone Result: Gyes No Add"Fax#:
| Fax Result: Yes No Add"Fax#:
| Lynail: Gladden @ white buffalo.com
| Matalie Gladden @ white buffalo.com
| Monigue Cueto @ white buffalo.com



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/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received:

10/30/2018

Sampling Date:

10/25/2018

Reported:

11/05/2018

Sampling Type:

Soil

Project Name:

STATE L 'A' BATTERY

Sampling Condition: Sample Received By: Cool & Intact
Tamara Oldaker

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

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

BTEX 8021B	mg/	kg	Analyze	d 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 9	69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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 9	% 41-142	!						
Surrogate: 1-Chlorooctadecane	156	% 37.6-14	7						

A ... - L ... - - - I D. .. MC

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Celey D. Keene



Analytical Results For:

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

Received: Reported: 10/30/2018

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: Sample Received By: Cool & Intact

Tamara Oldaker

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

BTEX 8021B	mg,	/kg	Analyze	d 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	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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Celey D. Keine



Analytical Results For:

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

Received: Reported:

BTEX 8021B

10/30/2018

11/05/2018

Project Name: Project Number: STATE L 'A' BATTERY

Project Location:

NONE GIVEN **NOT GIVEN**

mg/kg

Sampling Date:

10/25/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

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

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	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	ı						
Surrogate: 1-Chlorooctadecane	93.7	% 37.6-14	7						

Analyzed By: MS

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Celey D. Keene



Analytical Results For:

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

Received:

BTEX 8021B

10/30/2018

Sampling Date:

10/26/2018

Reported:

11/05/2018

Sampling Type:

Soil

Project Name:

STATE L 'A' BATTERY

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location:

NONE GIVEN

mg/kg

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

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	% 69.8-14	2						
Chloride, SM4500Cl-B	mg/	'ka	Analyza	d D AC					
Ciliolide, 31-1-300Cl-B	ilig/	ky .	Allalyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
·			<u> </u>		BS 416	% Recovery	True Value QC 400	RPD 3.92	Qualifier
Analyte	Result	Reporting Limit	Analyzed 11/01/2018	Method Blank		•	•		Qualifier
Analyte Chloride	Result	Reporting Limit	Analyzed 11/01/2018	Method Blank		•	•		Qualifier Qualifier
Analyte Chloride TPH 8015M	Result 240 mg/	Reporting Limit 16.0	Analyzed 11/01/2018 Analyze	Method Blank ND d By: MS	416	104	400	3.92	
Analyte Chloride TPH 8015M Analyte	Result 240 mg/	Reporting Limit 16.0 (kg Reporting Limit	Analyzed 11/01/2018 Analyzed Analyzed	Method Blank ND d By: MS Method Blank	416 BS	104 % Recovery	400 True Value QC	3.92 RPD	

Analyzed By: MS

Surrogate: 1-Chlorooctane

103 %

41-142

Surrogate: 1-Chlorooctadecane

95.8 %

37.6-147

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Celeg D. Freene



Analytical Results For:

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

Received: Reported: 10/30/2018

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	% 69.8-14	2						
Chloride, SM4500CI-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	% 37.6-14	7						

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Celeg D. Keene



Analytical Results For:

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

Received: Reported: 10/30/2018

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: Sample Received By: Cool & Intact

Tamara Oldaker

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

BTEX 8021B	mg	/kg	Analyze	d 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	% 69.8-14	2						
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	11/01/2018	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	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	% 37.6-14	7						

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Celeg D. Keene



Analytical Results For:

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

Received: Reported: 10/30/2018

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	Analyze	d 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	% 69.8-14	2						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	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	% 37.6-14	7						

3/.0-1

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received: Reported:

BTEX 8021B

10/30/2018

11/05/2018

Project Name:

STATE L 'A' BATTERY

Project Number:

NONE GIVEN

mg/kg

Project Location:

NOT GIVEN

Sampling Date: 10/29/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

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

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	% 69.8-14	2						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	- "								
	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1470	Reporting Limit	Analyzed 11/01/2018	Method Blank ND	BS 416	% Recovery	True Value QC 400	RPD 3.92	Qualifier
Chloride TPH 8015M		16.0	11/01/2018			•	·		Qualifier
	1470	16.0	11/01/2018	ND		•	·		Qualifier Qualifier

ND

ND

205

102

200

3.34

Analyzed By: MS

Surrogate: 1-Chlorooctane 99.9 % 88.9 % 41-142

10/31/2018

10/31/2018

Surrogate: 1-Chlorooctadecane

DRO >C10-C28*

EXT DRO > C28 - C36

37.6-147

10.0

10.0

29.0

19.2

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Celeg D. Keene



Analytical Results For:

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

Received:

10/30/2018

Sampling Date:

10/29/2018

Reported:

11/05/2018

Sampling Type:

Soil

Project Name:

STATE L 'A' BATTERY

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location:

NONE GIVEN

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

BTEX 8021B	mg/	kg	Analyze	d 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 %	69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyto	Pocult	Poporting Limit	Analyzod	Mothod Blank	ВC	% Posovony	Truo Valuo OC	DDD	Qualifior

Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2018	ND	194	96.8	200	8.92	
DRO >C10-C28*	4160	10.0	11/01/2018	ND	205	102	200	3.34	
EXT DRO >C28-C36	714	10.0	11/01/2018	ND					

Surrogate: 1-Chlorooctane

104 %

41-142

Surrogate: 1-Chlorooctadecane

176 %

37.6-147

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received: Reported: 10/30/2018

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: Sample Received By: Cool & Intact

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	% 69.8-14	2						
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	Analyze	ed 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	% 37.6-14	7						

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Celey D. Keine



Analytical Results For:

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

Received: Reported: 10/30/2018

11/05/2018

Project Name:

STATE L 'A' BATTERY

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

Sampling Type:

10/29/2018 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	% 69.8-14	2						
Chloride, SM4500CI-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	Analyze	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	% 37.6-14	7						

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Analytical Results For:

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

Received:

BTEX 8021B

10/30/2018 11/05/2018

Reported: Project Name:

STATE L 'A' BATTERY

Project Number:

NONE GIVEN

mg/kg

99.2 %

89.5 %

41-142

37.6-147

Project Location:

NOT GIVEN

Sampling Date: 10/29/2018

Sampling Type:

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Soil

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

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	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Chloride, SM4500Cl-B Analyte	Result	/kg Reporting Limit	Analyzed Analyzed	d By: AC Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
· ·			<u> </u>	<u> </u>	BS 416	% Recovery	True Value QC	RPD 3.92	Qualifier
Analyte	Result	Reporting Limit	Analyzed 11/01/2018	Method Blank		•	•		Qualifier
Analyte Chloride	Result	Reporting Limit	Analyzed 11/01/2018	Method Blank		•	•		Qualifier Qualifier
Analyte Chloride TPH 8015M	Result 1330 mg/	Reporting Limit 16.0	Analyzed 11/01/2018 Analyze	Method Blank ND d By: MS	416	104	400	3.92	
Analyte Chloride TPH 8015M Analyte	Result 1330 mg/	Reporting Limit 16.0 /kg Reporting Limit	Analyzed 11/01/2018 Analyze Analyzed	Method Blank ND d By: MS Method Blank	416 BS	104 % Recovery	400 True Value QC	3.92 RPD	

Analyzed By: ms

Cardinal Laboratories

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

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Celey D. Keene



Analytical Results For:

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

Received: Reported: 10/30/2018

11/05/2018

Project Name:

STATE L 'A' BATTERY

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date: 10/29/2018

Sampling Type:

Sampling Condition: Sample Received By: Cool & Intact

Soil

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	% 69.8-14	2						
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	Analyze	ed 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	% 37.6-14	7						

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Analytical Results For:

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

Received:

10/30/2018 11/05/2018

Reported: Project Name:

STATE L 'A' BATTERY

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date: 10/29/2018

Sampling Type: Soil

Sampling Condition: Sample Received By: Cool & Intact 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-Bromof	luorobenzene	(PID	99.4
------------	----------	--------------	------	------

99.4 %

69.8-142

Chloride, SM4500CI-B	mg	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2018	ND	196	98.2	200	1.45	
DRO >C10-C28*	43.4	10.0	11/01/2018	ND	210	105	200	0.833	
EXT DRO >C28-C36	24.4	10.0	11/01/2018	ND					

Surrogate: 1-Chlorooctane

90.7 %

41-142

Surrogate: 1-Chlorooctadecane

100 %

37.6-147

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Celey D. Keene



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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of 18 aboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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			de	ING	SAMPLING	PRESERV.	MATRIX		0	FOR LAB USE ONLY
			م			Fax #:	77		ne: Monique Cueto	Sampler Name:
)	2000-1	18-66	Phone #: 9/8-660-099	77	(tion:	Project Location:
				1137	Zip: 74,	State: OK	(0)	E	. State L "A" Batter	Project Name:
					2000	city: Jul			Project Owner:	Project #:
			210	le Avet	908 Va	Address: 8908 Yale	1		Fax#:	Phone #:
				100 E	eme	Attn: Steve McFor		X Zip: 79762	de Ma State: TX 2	city: Od
			0	Bulled	Stirte.	Company: White	0	201	4001 Leabrack St. Str	Address: 4
						P.O. #:	· ·		ager: Burit Tubita	Project Manager:
ANALYSIS REQUEST	A		151111		B/# 6	8/			me: Vanauasa	Company Name:

analyses, All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without firmitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

Relinquished By: Relinquished By: Sampler - UPS - Bus - Other: Delivered By: (Circle One) Date: Time: Time: 5:40 Date: 30-18 Received By: rdinal, regardless of whether such Received By: Cool Intact
A Yes A Yes
No No Sample Condition B Mongue. Cueto @ white buffalo. cam



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Voncuerd			Marie e de la companio del la companio de la companio del la companio de la companio del la com	ANALYSIS REOLIEST	
Project Manager:	Sharet White		P.O. #:	And Control and Control of Contro	- 14	
Address: 400	Penbrook St.	Stc. 201	Company: White B	مالمال		
city: Odusso	State: T)	Zip: 79762	Attn: Steve McFar	38		
Phone #:	Fax#:		Address: 8908 Vale	e Ave#210		
Project #:	Project Owner:	ner:	city: Julia	- 0		
Project Name:	Hate L "A" Battery	ery	State: OK Zip: 74	137		
Project Location:			Phone #: 9/8-660-099	0999		
Sampler Name:	Maniague Crieto	0	Fax #:	ea		Operate Name
FOR LAB USE ONLY	0	MATRIX	PRESERV. SAMPLING	de		
		RS		eric EX		
Lab I.D.	Sample I.D.	RAB OR (DINTAINE DUNDWA STEWAT L	HER: D/BASE: / COOL HER:	The BTE		
OOJCOKH		# GF W/ SC OI	OT DATE	-		
10		>6	8/1/2/01	0:35 7		
1	TO TO	20		1000		
na na	Swin-I'	2	D 20/20	ייים כייים		
PLEASE NOTE: Liability and D analyses. All claims including It service. In no event shall Cardi	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any dairn arising whether based in contract or tort, shall be finited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incident or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiates, affiliates or suppressor arising not in for related to the performance of expenses including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiates.	for any claim arising whether based in contra l be deemed walved unless made in writing a uding without limitation, business interruptions but Dardinal reparatless of whother such plain	ct or tort, shall be limited to the amount paid to describe the conditional within 30 days after on the conditional within 30 days after on loss of profits incurred by one of the above at the decrease.	by the client for the completion of the applicable ent, its subsidiaries,	-	
Relinquished By:	Date: 30-1	Received By:	111	ılt: □ Yes	□ No Add'I Phone #: □ No Add'I Fax #:	
Relinguished By:	ileto 15:4	Jamaka	Wanted	LEMARKS:	11 0 1. 7	
Relinquished By:	Date:	Received By:		Imax.	and in white buffer com	_

Fax Result: Pres No Add' Fax#:

REMARKS:

Limail:

Matalie. Gladden @ white buffalo.com

CHECKED BY:

(Initials)

+ Cardinal rannot arrent varial channee Blosco fav written channes to IRTRI 202,2728

Sample Condition
Cool Intact
Pres Pres
No No

TO

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Time:



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/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received:

DTEV 0021D

10/31/2018

Sampling Date:

10/30/2018

Reported:

11/07/2018

Sampling Type:

Soil

Project Name:

STATE L 'A' 8 BATTERY

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location:

NONE GIVEN NOT GIVEN

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

BTEX 8021B	mg/	kg	Analyze	d 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 9	% 69.8-14	2						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	92.8	% 37.6-14	7						

Analyzed By me

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine



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: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location:

NONE GIVEN

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

BTEX 8021B	mg,	/kg	Analyze	d 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	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 37.6-14	7						

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Celey D. Keene



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: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

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

BTEX 8021B	mg	/kg	Analyze	d 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	% 69.8-14	!2						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	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	% 37.6-14	!7						

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Celeg D. Keene



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: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location:

NONE GIVEN

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

BTEX 8260B	mg,	'kg	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/06/2018	ND	1.73	86.4	2.00	1.09	
Toluene*	<0.025	0.025	11/06/2018	ND	1.82	91.2	2.00	0.791	
Ethylbenzene*	0.068	0.025	11/06/2018	ND	1.78	89.0	2.00	1.33	
Total Xylenes*	0.145	0.075	11/06/2018	ND	5.71	95.2	6.00	2.97	
Total BTEX	0.213	0.150	11/06/2018	ND					
Surrogate: Dibromofluoromethane	103	% 90.4-11	1						
Surrogate: Toluene-d8	138	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	289	% 80.1-12	1						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/05/2018	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	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	% 37.6-14	7						

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Celey D. Keine



Analytical Results For:

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

Received:

RTFY 8260R

10/31/2018

Sampling Date:

10/29/2018

Reported:

11/07/2018

Sampling Type:

Soil

Project Name:

STATE L 'A' 8 BATTERY

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

C-04

Project Number:

NONE GIVEN

ma/ka

Project Location: NOT GIVEN

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

BTEX 8260B	mg/	kg	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/06/2018	ND	1.73	86.4	2.00	1.09	
Toluene*	0.086	0.025	11/06/2018	ND	1.82	91.2	2.00	0.791	
Ethylbenzene*	0.321	0.025	11/06/2018	ND	1.78	89.0	2.00	1.33	
Total Xylenes*	1.08	0.075	11/06/2018	ND	5.71	95.2	6.00	2.97	
Total BTEX	1.49	0.150	11/06/2018	ND					
Surrogate: Dibromofluoromethane	98.4	% 90.4-11	1						
Surrogate: Toluene-d8	121 9	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	250	% 80.1-12	1						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d 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	Analyze	d 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 9	% 41-142)						
Surrogate: 1-Chlorooctadecane	136	% 37.6-14	7						

Analyzed By: me

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Frence



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: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

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

BTEX 8021B	mg/	kg	Analyze	d 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 %	69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/05/2018	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 %	6 41-142							
Surrogate: 1-Chlorooctadecane	87.9 %	6 37.6-14	7						

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Celey D. Keine



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: Project Location: NONE GIVEN **NOT GIVEN**

Sample Received By:

Tamara Oldaker

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

BTEX 8021B	mg/	kg	Analyze	d 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 9	69.8-14	2						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 %	6 41-142	ı						
Surrogate: 1-Chlorooctadecane	93.8 9	% 37.6-14	7						

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Celey D. Keine



Analytical Results For:

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

Received:

BTEX 8021B

10/31/2018

Sampling Date:

10/30/2018

Reported:

11/07/2018

Sampling Type:

Soil

Project Name:

STATE L 'A' 8 BATTERY

Sampling Condition: Sample Received By: Cool & Intact
Tamara Oldaker

Project Number: Project Location:

NONE GIVEN

mg/kg

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

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	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	kg	Analyze	d By: AC					
Chloride, SM4500Cl-B Analyte	mg ,	Reporting Limit	Analyze Analyzed	d By: AC Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
			<u> </u>	-	BS 416	% Recovery	True Value QC 400	RPD 3.77	Qualifier
Analyte	Result	Reporting Limit	Analyzed 11/05/2018	Method Blank		•			Qualifier
Analyte Chloride	Result	Reporting Limit	Analyzed 11/05/2018	Method Blank		•			Qualifier Qualifier

ND

ND

193

96.5

200

5.16

Analyzed By: ms

Surrogate: 1-Chlorooctane

DRO >C10-C28*

EXT DRO >C28-C36

98.3 %

47.3

<10.0

41-142

11/02/2018

11/02/2018

10.0

10.0

Surrogate: 1-Chlorooctadecane

91.9 %

37.6-147

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Analytical Results For:

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

Received: Reported: 10/31/2018

11/07/2018

Project Name:

STATE L 'A' 8 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 12-2' (H803121-09)

BTEX 8021B	mg	/kg	Analyze	d 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	% 69.8-14	2						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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Analytical Results For:

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

Received: Reported: 10/31/2018

11/07/2018

Project Name:

STATE L 'A' 8 BATTERY

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

10/26/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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

BTEX 8021B	mg,	/kg	Analyze	d 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	% 69.8-14	2						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 37.6-14	7						

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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: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location:

NONE GIVEN

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

BTEX 8260B	mg,	kg	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.364	0.100	11/07/2018	ND	1.73	86.4	2.00	1.09	
Toluene*	0.492	0.100	11/07/2018	ND	1.82	91.2	2.00	0.791	
Ethylbenzene*	6.25	0.100	11/07/2018	ND	1.78	89.0	2.00	1.33	
Total Xylenes*	3.03	0.300	11/07/2018	ND	5.71	95.2	6.00	2.97	
Total BTEX	10.1	0.600	11/07/2018	ND					
Surrogate: Dibromofluoromethane	97.6	% 90.4-11	1						
Surrogate: Toluene-d8	162	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	364	% 80.1-12	1						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d 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	Analyze	d 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	% 37.6-14	7						

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Analytical Results For:

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

Received: Reported:

10/31/2018

11/07/2018

Project Name:

STATE L 'A' 8 BATTERY

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

10/29/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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

BTEX 8021B	mg,	/kg	Analyze	d 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	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 37.6-14	7						

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Analytical Results For:

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

Received:

BTEX 8260B

10/31/2018

Sampling Date:

10/29/2018

Reported:

11/07/2018

Sampling Type:

Soil

Project Name:

STATE L 'A' 8 BATTERY

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

S-04

Project Number:

NONE GIVEN

mg/kg

Project Location:

NOT GIVEN

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

D1LX 0200D	ilig	/ Ng	Allalyze	u by. IIIs					3-0-
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	11/07/2018	ND	1.73	86.4	2.00	1.09	
Toluene*	2.31	0.100	11/07/2018	ND	1.82	91.2	2.00	0.791	
Ethylbenzene*	1.99	0.100	11/07/2018	ND	1.78	89.0	2.00	1.33	
Total Xylenes*	14.8	0.300	11/07/2018	ND	5.71	95.2	6.00	2.97	
Total BTEX	19.1	0.600	11/07/2018	ND					
Surrogate: Dibromofluoromethane	96.3	% 90.4-11	1						
Surrogate: Toluene-d8	125	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	207	% 80.1-12	21						
Chloride, SM4500CI-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 37.6-14	!7						

Analyzed By: ms

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Celey D. Keene



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: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

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

BTEX 8260B	mg	/kg	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/06/2018	ND	1.73	86.4	2.00	1.09	
Toluene*	<0.025	0.025	11/06/2018	ND	1.82	91.2	2.00	0.791	
Ethylbenzene*	0.037	0.025	11/06/2018	ND	1.78	89.0	2.00	1.33	
Total Xylenes*	0.135	0.075	11/06/2018	ND	5.71	95.2	6.00	2.97	
Total BTEX	0.172	0.150	11/06/2018	ND					
Surrogate: Dibromofluoromethane	93.5	% 90.4-11	1						
Surrogate: Toluene-d8	107	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	203	% 80.1-12	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 37.6-14	7						

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Celey D. Keine



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

Notes and Definitions

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Vanguage				ANALYSIS REQUEST
Project Manager: Bunt White		P.O. #:		
Address: 4001 Penbuck St.	Sta 201	Company: White B	ullado	
city: Odeana State: TX	Zip: 79762	Attn: Steve Me For	1	
Phone #: Fax #:		Address: 8908 Vale	Ave # 210	
Project #: Project Owner:		city: Julsa		
Project Name: State L"A" 8 Btu		State: OK Zip: 741	37	
Project Location:		Phone #: 918-660-	0999	
Sampler Name: Monique Cueto		Fax #:	es	
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	d	
	ERS ATER	:	ori EX	<i>H</i>
Lab I.D. Sample I.D.	G)RAB OR CONTAIN ROUNDW WASTEWA OIL DIL	OTHER: CID/BASE CE / COOL OTHER:	Chl	
/ 52-1	<	10/92/18	0:07 / / 1	
2 583-1	2	84	1:10 7 7 1	
3 586-2'	0	10/20/18	11:20 / / .	
4 SP1-2"	6	10/26/18	11:30 / /	
5 588-2'	5	10/2/01	93:5	
6 589-2"	9	2/02/01	きりノノ	
7 50-2	G	10/30/18	1:08 / / 1	
8 5611-2	6	21/05/01	10:23	
7 5/12-2	5	00	1	
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analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applications, service, in no event shall Cardinal be liable for incidental or consequents damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its substitutions, and the profit of the performance of services, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its substitutions are not provided by the performance of services hereunder by cardinal, reparations so with the best based upon any of the above stated reasons or otherwise.	leemed waived unless made in writing and without limitation, business interruptions, I without limitation, business interruptions, I	received by Cardinal within 30 days after co oss of use, or loss of profits incurred by cirer s based upon any of the above stated reaso	ompletion of the applicable nt, its subsidiaries, as or otherwise.	
Relinquished By: Date: 31-/8	Received By:	11110	ılt: □ Yes	□ No Add'I Phone #: □ No Add'I Fax #:
Time::st	Mulaha	Sullas MC	REMARKS:	
Relinquished By: Time:	Received By:		Emore Matalie	Matalie Gladden (a) while buffalo cam
Delivered By: (Circle One)	œ.	H2	Mongi	William I
Sampler - UPS - Bus - Other:	ttq7 Tres Tres	4 0 (Illinais)		
+ Pardinal rannot arrent verhal changes Blease fav written changes to IETE 202-2228	for written channes to	16761 202_2226		



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:		ANALYSIS REQUEST
Project Manager: Bunt White	P.O. #:	
Address: 4001 Penbrook St.	Ste. 201 Company: White Bu	lado
City: Odesso State: TX:	Zip: 79762 Attn: Sheve TYPE For	
Phone #: Fax #:	Address: 8908 Hale	Ave = 210
Project #: Project Owner:	city: Julia	
Project Name: State L "A" & T	344 State: OK Zip: 74/3	
Project Location:	Phone #: 918-660-099	999
Sampler Name: Manague Cust	O Fax#:	
FOR LAB USE ONLY	MATRIX PRESERV. SAMPLING	
Lab I.D. Sample I.D.	G)RAB OR (C)OMP CONTAINERS GROUNDWATER VASTEWATER GOIL GLUDGE OTHER: CID/BASE: CE / COOL OTHER:	Chler BTEX TPH
11 5019-3'	8/12/18	11:30
12 5824-2"	G - 10/23/18 10	1008
13 SP26-2'	2/10/01	9:37
14 5828-11	81/ma(0) ~	8:8
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Relinglished By Relinquished By Sampler - UPS - Bus - Other: Delivered By: (Circle One) Date: Time: 15:5 Received By: Sample Condition
Cool Intact
Tes Tes
No No CHECKED BY: (Initials) Lemarks:

Limail:

Matalie. Gladden @ white buffalo.com

Matalie. Gladden @ white buffalo.com

+ Pardinal rannot arrent verbal rhannes Bleace for written rhannes to IETE1 202-2226



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/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received:

08/15/2019

Sampling Date:

08/12/2019

Reported:

08/19/2019

Sampling Type:

Soil

Project Name: Project Number: STATE L'A NONE GIVEN Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Location:

NOT GIVEN

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

BTEX 8021B	mg/	'kg	Analyze	d 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, SM4500CI-B	mg	/kg	Analyze	d 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	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<100	100	08/16/2019	ND	191	95.7	200	1.10	
DRO >C10-C28*	4640	100	08/16/2019	ND	200	100	200	1.10	
EXT DRO >C28-C36	1770	100	08/16/2019	ND					

Surrogate: 1-Chlorooctane

103 %

41-142

Surrogate: 1-Chlorooctadecane

300 %

37.6-147

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Analytical Results For:

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

Received:

08/15/2019

Sampling Date:

08/12/2019

Reported:

08/19/2019 STATE L'A Sampling Type:

Soil

Project Name: Project Number:

NONE GIVEN

Sampling Condition: Sample Received By: Cool & Intact
Tamara Oldaker

Project Location:

NOT GIVEN

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

BTEX 8021B	mg,	/kg	Analyze	d 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

Result	Reporting Limit	Analyzed						
		Allalyzeu	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
1440	16.0	08/16/2019	ND	432	108	400	0.00	
mg	/kg	Analyze	d By: MS					S-06
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<50.0	50.0	08/16/2019	ND	191	95.7	200	1.10	
2060	50.0	08/16/2019	ND	200	100	200	1.10	
1010	50.0	08/16/2019	ND					
•	Result <50.0	mg/kg Result Reporting Limit <50.0	mg/kg Analyze Result Reporting Limit Analyzed <50.0	mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank <50.0	mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS <50.0	mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery <50.0	mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <50.0	mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <50.0

Surrogate: 1-Chlorooctane

103 %

41-142

Surrogate: 1-Chlorooctadecane

182 %

37.6-147

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Celey D. Keene



Analytical Results For:

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

Received:

08/15/2019

Sampling Date:

08/12/2019

Reported:

08/19/2019

Sampling Type:

Soil

Project Name: Project Number: STATE L'A NONE GIVEN Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Location:

NOT GIVEN

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

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	ND	1.86	92.9	2.00	3.68	
Toluene*	<0.050	0.050	08/17/2019	ND	1.96	98.0	2.00	4.39	
Ethylbenzene*	<0.050	0.050	08/17/2019	ND	2.09	104	2.00	3.42	
Total Xylenes*	<0.150	0.150	08/17/2019	ND	6.31	105	6.00	2.69	
Total BTEX	<0.300	0.300	08/17/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 73.3-12	9						
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	% 37.6-14	7						

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:

08/15/2019

Sampling Date:

08/12/2019

Reported:

08/19/2019 STATE L'A Sampling Type:

Soil

Project Name: Project Number:

NONE GIVEN

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Location:

NOT GIVEN

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

BTEX 8021B	mg,	mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	ND	1.86	92.9	2.00	3.68	
Toluene*	0.195	0.050	08/17/2019	ND	1.96	98.0	2.00	4.39	
Ethylbenzene*	<0.050	0.050	08/17/2019	ND	2.09	104	2.00	3.42	
Total Xylenes*	<0.150	0.150	08/17/2019	ND	6.31	105	6.00	2.69	
Total BTEX	< 0.300	0.300	08/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID

162 %

73.3-129

Burroguie. 7 Bromojiuorobenzene (11B	102	70 75.5 12							
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



Analytical Results For:

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

Received:

08/15/2019

Sampling Date:

08/12/2019

Reported:

08/19/2019 STATE L'A

Sampling Type:

Soil

Project Name: Project Number:

NONE GIVEN

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Location:

NOT GIVEN

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

BTEX 8021B	mg/kg		Analyzed By: ms					S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/17/2019	ND	1.86	92.9	2.00	3.68		
Toluene*	0.084	0.050	08/17/2019	ND	1.96	98.0	2.00	4.39		
Ethylbenzene*	0.862	0.050	08/17/2019	ND	2.09	104	2.00	3.42		
Total Xylenes*	0.685	0.150	08/17/2019	ND	6.31	105	6.00	2.69		
Total BTEX	1.63	0.300	08/17/2019	ND						
Surrogate: 4-Bromofluorobenzene (PID	130	% 73.3-12	9							
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	Analyze	d 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	% 37.6-14	7							

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Celeg D. Keene



Analytical Results For:

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

Received:

08/15/2019

Sampling Date:

08/12/2019

Reported:

08/19/2019 STATE L'A

Sampling Type:

Soil

Project Name: Project Number:

NONE GIVEN

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Location:

NOT GIVEN

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

3TEX 8021B	mg

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS % Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/17/2019	ND	1.86	92.9	2.00	3.68	
Toluene*	<0.050	0.050	08/17/2019	ND	1.96	98.0	2.00	4.39	
Ethylbenzene*	<0.050	0.050	08/17/2019	ND	2.09	104	2.00	3.42	
Total Xylenes*	<0.150	0.150	08/17/2019	ND	6.31	105	6.00	2.69	
Total BTEX	<0.300	0.300	08/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID

120 %

73.3-129

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	08/16/2019	ND	432	108	400	0.00	
TPH 8015M	1 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					
	3410	55.0	00,10,2015	ND					

Surrogate: 1-Chlorooctane

106 %

41-142

Surrogate: 1-Chlorooctadecane

490 %

37.6-147

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Celeg D. Keene



Analytical Results For:

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

Received:

08/15/2019

Sampling Date:

08/12/2019

Reported:

08/19/2019 STATE L'A Sampling Type:

Soil

Project Name: Project Number:

NONE GIVEN

Sampling Condition: Sample Received By: Cool & Intact
Tamara Oldaker

Project Location:

NOT GIVEN

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

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	ND	1.86	92.9	2.00	3.68	
Toluene*	<0.050	0.050	08/17/2019	ND	1.96	98.0	2.00	4.39	
Ethylbenzene*	0.174	0.050	08/17/2019	ND	2.09	104	2.00	3.42	
Total Xylenes*	<0.150	0.150	08/17/2019	ND	6.31	105	6.00	2.69	
Total BTEX	<0.300	0.300	08/17/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	08/16/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed 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	% 37.6-14	7						

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Analytical Results For:

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

Received:

08/15/2019

Sampling Date:

08/12/2019

Reported:

08/19/2019 STATE L'A

Sampling Type:

Soil

Project Name: Project Number:

NONE GIVEN

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Location:

NOT GIVEN

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

STEX 8021B	mg/kg		Analyze	Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	ND	1.86	92.9	2.00	3.68	
Toluene*	<0.050	0.050	08/17/2019	ND	1.96	98.0	2.00	4.39	
Ethylbenzene*	0.058	0.050	08/17/2019	ND	2.09	104	2.00	3.42	
Total Xylenes*	<0.150	0.150	08/17/2019	ND	6.31	105	6.00	2.69	
Total BTEX	<0.300	0.300	08/17/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	19						
Chloride, SM4500CI-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	Analyze	ed 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	% 37.6-14	!7						

Surrogate: 1-Chlorooctadecane

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:

08/15/2019

Sampling Date:

08/12/2019

Reported:

08/19/2019 STATE L'A Sampling Type:

Soil

Project Name: Project Number:

NONE GIVEN

Sampling Condition: Sample Received By: Cool & Intact
Tamara Oldaker

Project Location:

NOT GIVEN

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

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	ND	1.86	92.9	2.00	3.68	
Toluene*	<0.050	0.050	08/17/2019	ND	1.96	98.0	2.00	4.39	
Ethylbenzene*	<0.050	0.050	08/17/2019	ND	2.09	104	2.00	3.42	
Total Xylenes*	<0.150	0.150	08/17/2019	ND	6.31	105	6.00	2.69	
Total BTEX	<0.300	0.300	08/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID

95.5 %

73.3-129

Chloride, 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

Sampling Date:

08/12/2019

Reported:

08/19/2019 STATE L'A

Sampling Type:

Soil

Project Name: Project Number:

NONE GIVEN

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Location:

NOT GIVEN

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

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	ND	1.86	92.9	2.00	3.68	
Toluene*	<0.050	0.050	08/17/2019	ND	1.96	98.0	2.00	4.39	
Ethylbenzene*	<0.050	0.050	08/17/2019	ND	2.09	104	2.00	3.42	
Total Xylenes*	<0.150	0.150	08/17/2019	ND	6.31	105	6.00	2.69	
Total BTEX	<0.300	0.300	08/17/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.5	% 73.3-12	9						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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Analytical Results For:

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

Received:

08/15/2019

Sampling Date:

08/08/2019

Reported:

08/19/2019

Sampling Type:

Soil

2.00

6.00

Project Name: Project Number: STATE L'A NONE GIVEN Sampling Condition: Sample Received By:

104

105

Cool & Intact
Tamara Oldaker

3.42

2.69

Project Location:

Analyte

Benzene*
Toluene*

NOT GIVEN

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

BTEX 8021B mg/kg

F	Result Re	eporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<	0.050	0.050	08/17/2019	ND	1.86	92.9	2.00	3.68	
<	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 Total Xylenes* < 0.150 0.150 08/17/2019 ND 6.31 Total BTEX < 0.300 0.300 08/17/2019 ND

Surrogate: 4-Bromofluorobenzene (PID

93.2 %

73.3-129

0									
Chloride, SM4500CI-B	mg/kg		Analyze	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,	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					

Analyzed By: ms

Surrogate: 1-Chlorooctane

91.3 %

41-142

Surrogate: 1-Chlorooctadecane

100 %

37.6-147

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:

RTFY 8021R

08/15/2019

Sampling Date:

08/08/2019

Reported:

08/19/2019 STATE L'A Sampling Type:

Soil

Project Name: Project Number:

NONE GIVEN

ma/ka

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

C-04

Project Location:

NOT GIVEN

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

31EX 8021B	mg/kg		Analyzed By: ms						5-04	
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	% 73.3-12	9							
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	% 37.6-14	7							

Analyzed By: me

Cardinal Laboratories

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Analytical Results For:

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

Received:

08/15/2019

Sampling Date:

08/08/2019

Reported:

08/19/2019 STATE L'A Sampling Type:

Soil

Project Name: Project Number:

NONE GIVEN

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Location:

NOT GIVEN

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

BIEX 8021B	mg/	кg	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	ND	1.86	92.9	2.00	3.68	
Toluene*	<0.050	0.050	08/17/2019	ND	1.96	98.0	2.00	4.39	
Ethylbenzene*	<0.050	0.050	08/17/2019	ND	2.09	104	2.00	3.42	
Total Xylenes*	<0.150	0.150	08/17/2019	ND	6.31	105	6.00	2.69	
Total BTEX	<0.300	0.300	08/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID

94.0 %

73.3-129

Chloride, SM4500CI-B	mg/kg		Analyze	d 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	Analyze	d 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

Sampling Date:

08/08/2019

Reported:

08/19/2019

Sampling Type:

Soil

Project Name: Project Number: STATE L'A NONE GIVEN Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Location:

NOT GIVEN

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

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	ND	1.86	92.9	2.00	3.68	
Toluene*	< 0.050	0.050	08/17/2019	ND	1.96	98.0	2.00	4.39	
Ethylbenzene*	< 0.050	0.050	08/17/2019	ND	2.09	104	2.00	3.42	
Total Xylenes*	<0.150	0.150	08/17/2019	ND	6.31	105	6.00	2.69	
Total BTEX	<0.300	0.300	08/17/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.8 %	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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 9	% 41-142	<u> </u>						
Surrogate: 1-Chlorooctadecane	134 %	6 37 6-1 <i>4</i>	7						

Surrogate: 1-Chlorooctadecane

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Analytical Results For:

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

Received:

08/15/2019

Sampling Date:

08/08/2019

Reported:

08/19/2019 STATE L'A

Sampling Type:

Soil

Project Name: Project Number:

NONE GIVEN

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Location:

NOT GIVEN

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

DIEX SUZIB	mg/K

BIEX 8021B	mg	кg	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	ND	1.86	92.9	2.00	3.68	
Toluene*	<0.050	0.050	08/17/2019	ND	1.96	98.0	2.00	4.39	
Ethylbenzene*	<0.050	0.050	08/17/2019	ND	2.09	104	2.00	3.42	
Total Xylenes*	<0.150	0.150	08/17/2019	ND	6.31	105	6.00	2.69	
Total BTEX	<0.300	0.300	08/17/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID

93.2 %

73.3-129

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/16/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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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Celeg D. Keene



Analytical Results For:

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

Received:

08/15/2019

Sampling Date:

08/08/2019

Reported:

08/19/2019

Sampling Type:

Soil

Project Name:

STATE L'A NONE GIVEN Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location:

NOT GIVEN

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

E	3TEX 8021B		

BTEX 8021B	mg,	/kg	Analyze	d 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

937%

73.3-129

Chloride, SM4500CI-B	mg/kg		Analyze	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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	08/15/2019	ND	189	94.5	200	3.25	
DRO >C10-C28*	356	50.0	08/15/2019	ND	220	110	200	0.971	
EXT DRO >C28-C36	236	50.0	08/15/2019	ND					

Surrogate: 1-Chlorooctane

94.7 %

41-142

Surrogate: 1-Chlorooctadecane

119 %

37.6-147

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:

08/15/2019

Sampling Date:

08/08/2019

Reported:

08/19/2019 STATE L'A Sampling Type:

Soil

Project Name: Project Number:

NONE GIVEN

Sampling Condition: Sample Received By: Cool & Intact
Tamara Oldaker

Project Location:

NOT GIVEN

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

BTEX 8021B	mg,	/kg	Analyze	d 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	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 37.6-14	7						

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Analytical Results For:

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

Received:

08/15/2019

Sampling Date:

08/08/2019

Reported:

08/19/2019 STATE L'A Sampling Type:

Soil

Project Name: Project Number:

NONE GIVEN

Sampling Condition: Sample Received By: Cool & Intact
Tamara Oldaker

Project Location:

NOT GIVEN

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

BTEX 8021B	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2019	ND	1.86	92.9	2.00	3.68	
Toluene*	<0.050	0.050	08/17/2019	ND	1.96	98.0	2.00	4.39	
Ethylbenzene*	0.169	0.050	08/17/2019	ND	2.09	104	2.00	3.42	
Total Xylenes*	<0.150	0.150	08/17/2019	ND	6.31	105	6.00	2.69	
Total BTEX	<0.300	0.300	08/17/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	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	% 37.6-14	7						

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

Notes and Definitions

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

*=Accredited Analyte Cardinal Laboratories

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Celeg D. Freene





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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FOR LAB USE ONLY					MA	RIX		PRE	SERV	SAMPI	ING	100			1							
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PLEASE NOTE: Liability and Dam	nages. Cardinal's liability and client's exclusive remedy for	any clair	n arisir	ng whethe	based	in contrac	t or tor	t, shall i	e limited	to the amount of	9:34	or the		X								
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	QUCMO (3/3) 393-24/6	-	1						-	181	LL TO						ΔΝΔ	IVSI	S P	FOLL	EST			
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PLEASE NOTE: Liability and Damages, Cardina	al's liability and client's exclusive remedy for an	y claim a	arising	whether	er basi	ed in co	ntract o	or tort, s	shall be	imited	to the amount pa	d by the client for	the	-						1				
analyses. All claims including those for negligent service. In no event shall Cardinal be liable for in affiliates or successors arising out of or related to														ole										
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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/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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	Analyze	d 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	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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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:

BTEX 8021B

08/22/2019

Sampling Date:

08/20/2019

Reported:

08/23/2019

Sampling Type:

Soil

Project Name:

STATE L'A

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

mg/kg

Sample Received By:

Jodi Henson

Project Location:

VANGUARD/ GRIZZLY

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

	9/	9	7	7:					
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, SM4500CI-B	mg,	'kg	Analyze	ed 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	Analyze	ed 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 9	37.6-147	7						

Analyzed By: ms

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

Hungry Horse Environmental NATALIE GLADDEN P.O. Box 1058 Hobbs NM, 88240

Fax To: (505) 391-4585

Received:

08/22/2019

Sampling Date:

08/20/2019

Reported:

08/23/2019

Sampling Type:

Soil

Project Name:

BTEX 8021B

STATE L'A

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number: Project Location:

NONE GIVEN

VANGUARD/ GRIZZLY

mg/kg

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2019	ND	1.77	88.5	2.00	6.43	
Toluene*	<0.050	0.050	08/22/2019	ND	1.92	95.9	2.00	5.38	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	2.05	103	2.00	4.68	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	6.10	102	6.00	4.65	
Total BTEX	<0.300	0.300	08/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.1	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte Chloride	Result 2240	Reporting Limit 16.0	Analyzed 08/23/2019	Method Blank ND	BS 432	% Recovery	True Value QC 400	RPD 3.77	Qualifier
,		16.0	08/23/2019			•	•		Qualifier
Chloride	2240	16.0	08/23/2019	ND		•	•		Qualifier Qualifier

ND

ND

194

96.8

200

5.00

Analyzed By: ms

Surrogate: 1-Chlorooctane

DRO >C10-C28*

EXT DRO > C28 - C36

110 %

142

98.9

41-142

08/22/2019

08/22/2019

10.0

10.0

Surrogate: 1-Chlorooctadecane

129 %

37.6-147

Cardinal Laboratories *=Accredited Analyte

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Celey D. Kune



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 Location: VANGUARD/ GRIZZLY

NONE GIVEN

Sampling Date: 08/20/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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

Project Number:

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2019	ND	1.77	88.5	2.00	6.43	
Toluene*	<0.050	0.050	08/22/2019	ND	1.92	95.9	2.00	5.38	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	2.05	103	2.00	4.68	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	6.10	102	6.00	4.65	
Total BTEX	<0.300	0.300	08/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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Celeg D. Freene

Cardinal Laboratories

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Analytical Results For:

Hungry Horse Environmental NATALIE GLADDEN P.O. Box 1058 Hobbs NM, 88240

Fax To: (505) 391-4585

Received:

08/22/2019

Sampling Date:

08/20/2019

Reported:

08/23/2019

Sampling Type:

Soil

Project Name:

STATE L'A NONE GIVEN Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number: Project Location:

VANGUARD/ GRIZZLY

Sample ID: CLOSURE 1 - SP 1 (H902886-05)

BTEX 8021B	mg/	'kg	Analyze	d 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

Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
2120	16.0	08/23/2019	ND	416	104	400	0.00	
TPH 8015M mg/kg		Analyze	d By: MS					S-06
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<50.0	50.0	08/22/2019	ND	197	98.3	200	4.83	
2650	50.0	08/22/2019	ND	194	96.8	200	5.00	
1500	50.0	08/22/2019	ND					
	2120 mg, Result <50.0 2650	2120 16.0 mg/kg Result Reporting Limit <50.0 50.0 2650 50.0	2120 16.0 08/23/2019 mg/kg Analyze Result Reporting Limit Analyzed <50.0	2120 16.0 08/23/2019 ND mg/ky Analyzed By: MS Result Reporting Limit Analyzed Method Blank <50.0	2120 16.0 08/23/2019 ND 416 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS <50.0	2120 16.0 08/23/2019 ND 416 104 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery <50.0	2120 16.0 08/23/2019 ND 416 104 400 mg/ky Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <50.0	2120 16.0 08/23/2019 ND 416 104 400 0.00 mg/ky Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <50.0

Surrogate: 1-Chlorooctane

112 %

41-142

Surrogate: 1-Chlorooctadecane

248 %

37.6-147

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:

08/22/2019

Sampling Date:

08/20/2019

Reported:

08/23/2019 STATE L'A Sampling Type:

Soil

Project Number:

NONE GIVEN

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number: Project Location:

VANGUARD/ GRIZZLY

Sample ID: CLOSURE 1 - SP 2 (H902886-06)

BTEX 8021B	mg	/kg	Analyze	d 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	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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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:

RTFY 8021R

08/22/2019

Sampling Date:

08/20/2019

Reported:

08/23/2019

Sampling Type:

Soil

Project Name: Project Number: STATE L'A NONE GIVEN Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Location:

VANGUARD/ GRIZZLY

Sample ID: CLOSURE 1 - SP 3 (H902886-07)

B1EX 8021B	mg	/кд	Anaiyze	a 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	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	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	% 376-14	17						

Analyzed By: me

Surrogate: 1-Chlorooctadecane 313 % 37.6-147

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Analytical Results For:

Hungry Horse Environmental NATALIE GLADDEN P.O. Box 1058 Hobbs NM, 88240

Fax To: (505) 391-4585

Received:

08/22/2019

Sampling Date:

08/20/2019

Reported:

08/23/2019

Sampling Type:

Soil

Project Name:

STATE L'A

161 %

37.6-147

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number:

NONE GIVEN

Project Location:

VANGUARD/ GRIZZLY

Sample ID: CLOSURE 1 - SP 4 (H902886-08)

BTEX 8021B	mg/	'kg	Analyze	d 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	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d 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	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	<u> </u>						

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

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Celeg D. Keene



Analytical Results For:

Hungry Horse Environmental NATALIE GLADDEN P.O. Box 1058 Hobbs NM, 88240

Fax To: (505) 391-4585

Received: Reported: 08/22/2019

08/23/2019

Project Name: Project Number: STATE L'A NONE GIVEN

Project Location:

VANGUARD/ GRIZZLY

Sampling Date:

08/20/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

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

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2019	ND	1.77	88.5	2.00	6.43	
Toluene*	<0.050	0.050	08/23/2019	ND	1.92	95.9	2.00	5.38	
Ethylbenzene*	<0.050	0.050	08/23/2019	ND	2.05	103	2.00	4.68	
Total Xylenes*	<0.150	0.150	08/23/2019	ND	6.10	102	6.00	4.65	
Total BTEX	<0.300	0.300	08/23/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 73.3-12	9						
Chloride, SM4500CI-B	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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Analytical Results For:

Hungry Horse Environmental NATALIE GLADDEN P.O. Box 1058 Hobbs NM, 88240

Fax To: (505) 391-4585

Received:

08/22/2019

Sampling Date:

08/20/2019

Reported:

08/23/2019

Sampling Type:

Soil

Project Name:

STATE L'A NONE GIVEN Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number: Project Location:

VANGUARD/ GRIZZLY

Sample ID: COMP 1 (H902886-10)

BTEX 8021B	mg/	mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	08/23/2019	ND	1.77	88.5	2.00	6.43	
Toluene*	<0.050	0.050	08/23/2019	ND	1.92	95.9	2.00	5.38	
Ethylbenzene*	<0.050	0.050	08/23/2019	ND	2.05	103	2.00	4.68	
Total Xylenes*	<0.150	0.150	08/23/2019	ND	6.10	102	6.00	4.65	
Total BTEX	<0.300	0.300	08/23/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID

91.5 %

73.3-129

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	08/23/2019	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2019	ND	197	98.3	200	4.83	
DRO >C10-C28*	1920	10.0	08/23/2019	ND	194	96.8	200	5.00	
EXT DRO >C28-C36	729	10.0	08/23/2019	ND					

Surrogate: 1-Chlorooctane

106 %

41-142

Surrogate: 1-Chlorooctadecane

193 %

37.6-147

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Analytical Results For:

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

Fax To: (50

Received:

08/22/2019

Sampling Date:

08/21/2019

Reported:

08/23/2019

Sampling Type:

Soil

Project Name:

BTEX 8021B

STATE L'A

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number: Project Location:

NONE GIVEN

mg/kg

VANGUARD/ GRIZZLY

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

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 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/23/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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					

Analyzed By: MS

Surrogate: 1-Chlorooctane

109 %

41-142

Surrogate: 1-Chlorooctadecane

117 %

37.6-147

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Celeg & Frence



Analytical Results For:

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

Received:

RTFY 8021R

08/22/2019

Sampling Date:

08/21/2019

Reported:

08/23/2019

Sampling Type:

Soil

Project Name:

STATE L'A

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number:

NONE GIVEN

Project Location:

VANGUARD/ GRIZZLY

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

BIEX 8021B	тд/кд		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2019	ND	1.71	85.5	2.00	4.72	
Toluene*	<0.050	0.050	08/22/2019	ND	1.88	94.0	2.00	4.28	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	1.93	96.3	2.00	5.20	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	5.86	97.7	6.00	5.87	
Total BTEX	<0.300	0.300	08/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 73.3-12	9						
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	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 5	% 41-142							
Surrogate: 1-Chlorooctadecane	120	% 37.6-14	7						

Analyzed By: MC

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Analytical Results For:

Hungry Horse Environmental NATALIE GLADDEN P.O. Box 1058 Hobbs NM, 88240

Fax To: (505) 391-4585

Received:

08/22/2019

Sampling Date:

08/21/2019

Reported:

08/23/2019

Sampling Type:

Soil

Project Name:

STATE L'A NONE GIVEN Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number:

Project Location: VANGUARD/ GRIZZLY

Sample ID: CLOSURE 2 - SW 3 (H902886-13)

BTEX 8021B	mg/kg		Analyze	d 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 %	6 73.3-12	9						
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	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 %	6 41-142	ı						
Surrogate: 1-Chlorooctadecane	121 9	6 37.6-14	7						

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Analytical Results For:

Hungry Horse Environmental NATALIE GLADDEN P.O. Box 1058 Hobbs NM, 88240

Fax To: (505) 391-4585

Received:

08/22/2019

Sampling Date:

08/21/2019

Reported:

08/23/2019

Sampling Type:

Soil

Project Name:

STATE L'A NONE GIVEN Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number: Project Location:

VANGUARD/ GRIZZLY

Sample ID: CLOSURE 2 - SW 4 (H902886-14)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2019	ND	1.71	85.5	2.00	4.72	
Toluene*	<0.050	0.050	08/22/2019	ND	1.88	94.0	2.00	4.28	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	1.93	96.3	2.00	5.20	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	5.86	97.7	6.00	5.87	
Total BTEX	<0.300	0.300	08/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 73.3-12	9						
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 9	% 41-142	!						
Surrogate: 1-Chlorooctadecane	123	% 37.6-14	7						

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Analytical Results For:

Hungry Horse Environmental NATALIE GLADDEN P.O. Box 1058 Hobbs NM, 88240

Fax To: (505) 391-4585

Received:

08/22/2019

Sampling Date:

08/21/2019

Reported:

08/23/2019

Sampling Type:

Soil

Project Name:

STATE L'A

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

VANGUARD/ GRIZZLY

Sample ID: CLOSURE 2 - SP 1 (H902886-15)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2019	ND	1.71	85.5	2.00	4.72	
Toluene*	<0.050	0.050	08/22/2019	ND	1.88	94.0	2.00	4.28	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	1.93	96.3	2.00	5.20	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	5.86	97.7	6.00	5.87	
Total BTEX	<0.300	0.300	08/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	08/23/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental NATALIE GLADDEN P.O. Box 1058 Hobbs NM, 88240

Fax To: (505) 391-4585

Received:

RTFY 8021R

08/22/2019

Sampling Date:

08/21/2019

Reported:

08/23/2019

Sampling Type:

Soil

Project Name:

STATE L'A NONE GIVEN Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number: Project Location:

VANGUARD/ GRIZZLY

Sample ID: CLOSURE 2 - SP 2 (H902886-16)

B1EX 8021B	тд/кд		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	% 73.3-12	9						
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	% 37.6-14	7						

Analyzed By: MC

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Analytical Results For:

Hungry Horse Environmental NATALIE GLADDEN P.O. Box 1058 Hobbs NM, 88240

Fax To: (505) 391-4585

Received:

08/22/2019

Sampling Date:

08/21/2019

Reported:

08/23/2019 STATE L'A Sampling Type:

Soil

Project Name:

NONE GIVEN

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number: Project Location:

VANGUARD/ GRIZZLY

Sample ID: CLOSURE 2 - SP 3 (H902886-17)

Analyte	mg,	mg/kg		Analyzed By: MS					
	Result	Reporting Limit	Analyzed	Method Blank	BS % Recove	% 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	640	16.0	08/23/2019	ND	416	104	400	0.00	
TPH 8015M	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. Kune



Analytical Results For:

Hungry Horse Environmental NATALIE GLADDEN P.O. Box 1058 Hobbs NM, 88240

Fax To: (505) 391-4585

Received:

08/22/2019

Sampling Date:

08/21/2019

Reported:

08/23/2019 STATE L'A

Sampling Type:

Soil

Project Name:

NONE GIVEN

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number: Project Location:

VANGUARD/ GRIZZLY

Sample ID: CLOSURE 2 - SP 4 (H902886-18)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2019	ND	1.71	85.5	2.00	4.72	
Toluene*	<0.050	0.050	08/22/2019	ND	1.88	94.0	2.00	4.28	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	1.93	96.3	2.00	5.20	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	5.86	97.7	6.00	5.87	
Total BTEX	<0.300	0.300	08/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 73.3-12	9						
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	Analyze	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	% 37.6-14	7						

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Celeg D. Keene



Analytical Results For:

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

Received: Reported: 08/22/2019

08/23/2019

Project Name: Project Number: STATE L'A NONE GIVEN

Project Location:

VANGUARD/ GRIZZLY

Sampling Date:

08/21/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

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

BTEX 8021B	mg,	/kg	Analyze	d 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	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 37.6-14	7						

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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: Reported: 08/22/2019

08/23/2019

Project Name: Project Number: STATE L'A NONE GIVEN

Project Location:

VANGUARD/ GRIZZLY

Sampling Date:

08/21/2019

Sampling Type:

Sample Received By:

Soil Sampling Condition: Cool & Intact

Jodi Henson

Sample ID: COMP 2 (H902886-20)

BTEX 8021B	mg,	/kg	Analyze	d 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	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	08/23/2019	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2019	ND	212	106	200	3.55	
DRO >C10-C28*	1460	10.0	08/23/2019	ND	215	108	200	4.61	
EXT DRO >C28-C36	869	10.0	08/23/2019	ND					

Surrogate: 1-Chlorooctane

90.5 %

41-142

Surrogate: 1-Chlorooctadecane

161 %

37.6-147

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Analytical Results For:

Hungry Horse Environmental NATALIE GLADDEN P.O. Box 1058 Hobbs NM, 88240

Fax To: (505) 391-4585

Received:

08/22/2019

Sampling Date:

08/21/2019

Reported:

08/23/2019

Sampling Type:

Soil

Project Name:

STATE L'A NONE GIVEN Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number: Project Location:

VANGUARD/ GRIZZLY

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

BTEX 8021B	mg/	kg	Analyze	d 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 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/23/2010	ND	416	104	400	0.00	

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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

Hungry Horse Environmental NATALIE GLADDEN P.O. Box 1058 Hobbs NM, 88240

Fax To: (505) 391-4585

Received:

08/22/2019

Sampling Date:

08/21/2019

Reported:

08/23/2019

Sampling Type:

Soil

Project Name:

STATE L'A

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number:

NONE GIVEN

Project Location: VANGUARD/ GRIZZLY

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

Analyte Result Reporting Limit Analyzed Method Blank BS 9 Benzene* <0.050 0.050 08/22/2019 ND 1.71 Toluene* <0.050 0.050 08/22/2019 ND 1.88 Ethylbenzene* <0.050 0.050 08/22/2019 ND 1.93 Total Xylenes* <0.150 0.150 08/22/2019 ND 5.86 Total BTEX <0.300 0.300 08/22/2019 ND ND	85.5 94.0 96.3 97.7	True Value QC 2.00 2.00 2.00	RPD 4.72 4.28	Qualifier
Toluene* <0.050 0.050 08/22/2019 ND 1.88 Ethylbenzene* <0.050 0.050 08/22/2019 ND 1.93 Total Xylenes* <0.150 0.150 08/22/2019 ND 5.86	94.0 96.3	2.00		
Ethylbenzene* <0.050 0.050 08/22/2019 ND 1.93 Total Xylenes* <0.150 0.150 08/22/2019 ND 5.86	96.3		4.28	
Total Xylenes* <0.150 0.150 08/22/2019 ND 5.86		2.00		
• • •	97.7		5.20	
Total BTEX <0.300 0.300 08/22/2019 ND		6.00	5.87	
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				

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

Hungry Horse Environmental NATALIE GLADDEN P.O. Box 1058 Hobbs NM, 88240

Fax To: (505) 391-4585

Received:

08/22/2019

Sampling Date:

08/21/2019

Reported:

08/23/2019

Sampling Type:

Soil

Project Name:

STATE L'A

Sampling Condition:

Cool & Intact

Project Number: Project Location: NONE GIVEN VANGUARD/ GRIZZLY Sample Received By: Jodi Henson

Sample ID: CLOSURE 3 - SW 3 (H902886-23)

BTEX 8021B	mg/	'kg	Analyze	d 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 5	% 73.3-12	9						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 41-142	!						
Surrogate: 1-Chlorooctadecane	113 9	% 37.6-14	7						

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Analytical Results For:

Hungry Horse Environmental NATALIE GLADDEN P.O. Box 1058 Hobbs NM, 88240

Fax To: (505) 391-4585

Received:

08/22/2019

Sampling Date:

08/21/2019

Reported:

08/23/2019 STATE L'A

Sampling Type:

Soil

Project Name:

NONE GIVEN

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number: Project Location:

VANGUARD/ GRIZZLY

Sample ID: CLOSURE 3 - SW 4 (H902886-24)

BTEX 8021B	mg,	/kg	Analyze	d 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	% 73.3-12	9						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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Analytical Results For:

Hungry Horse Environmental NATALIE GLADDEN P.O. Box 1058 Hobbs NM, 88240

Fax To: (505) 391-4585

Received:

08/22/2019

Sampling Date:

08/21/2019

Reported:

08/23/2019

Sampling Type:

Soil

Project Name:

STATE L'A NONE GIVEN Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number: Project Location:

VANGUARD/ GRIZZLY

Sample ID: CLOSURE 3 - SP 1 (H902886-25)

BTEX 8021B	mg,	/kg	Analyze	d 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	% 73.3-12	9						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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Analytical Results For:

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

(333)

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)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2019	ND	1.71	85.5	2.00	4.72	
Toluene*	<0.050	0.050	08/22/2019	ND	1.88	94.0	2.00	4.28	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	1.93	96.3	2.00	5.20	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	5.86	97.7	6.00	5.87	
Total BTEX	<0.300	0.300	08/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 73.3-12	9						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 99.9 % 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

Sampling Date:

08/21/2019

Reported:

08/23/2019

Sampling Type:

Soil

Project Name:

STATE L'A

Sampling Condition:

Cool & Intact

Project Number: Project Location: NONE GIVEN VANGUARD/ GRIZZLY Sample Received By:

Jodi Henson

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

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2019	ND	1.71	85.5	2.00	4.72	
Toluene*	<0.050	0.050	08/22/2019	ND	1.88	94.0	2.00	4.28	
Ethylbenzene*	<0.050	0.050	08/22/2019	ND	1.93	96.3	2.00	5.20	
Total Xylenes*	<0.150	0.150	08/22/2019	ND	5.86	97.7	6.00	5.87	
Total BTEX	<0.300	0.300	08/22/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	08/23/2019	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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Analytical Results For:

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

Received:

08/22/2019

Sampling Date:

08/21/2019

Reported:

08/23/2019

Sampling Type:

Soil

Project Name:

STATE L'A

mg/kg

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number:

NONE GIVEN

Project Location:

BTEX 8021B

VANGUARD/ GRIZZLY

Sample ID: CLOSURE 3 - SP 4 (H902886-28)

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 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/22/2019	ND	212	106	200	3.55	
DD0 : 610 620*	202	10.0	08/22/2019	ND	215	108	200	4.61	
DRO >C10-C28*	382	10.0	00/22/2013						

Analyzed By: MS

Surrogate: 1-Chlorooctane

102 %

41-142

Surrogate: 1-Chlorooctadecane

120 %

37.6-147

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

Hungry Horse Environmental NATALIE GLADDEN P.O. Box 1058 Hobbs NM, 88240

Fax To: (505) 391-4585

Received:

08/22/2019

Sampling Date:

08/21/2019

Reported:

08/23/2019

Sampling Type:

Soil

Project Name:

STATE L'A NONE GIVEN Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number: Project Location:

VANGUARD/ GRIZZLY

Sample ID: CLOSURE 3 - SP 5 (H902886-29)

D21B mg/kg		kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
zene*	<0.050	0.050	08/22/2019	ND	1.71	85.5	2.00	4.72	
ene*	<0.050	0.050	08/22/2019	ND	1.88	94.0	2.00	4.28	
lbenzene*	<0.050	0.050	08/22/2019	ND	1.93	96.3	2.00	5.20	
al Xylenes*	<0.150	0.150	08/22/2019	ND	5.86	97.7	6.00	5.87	
al BTEX <	<0.300	0.300	08/22/2019	ND					
				ND					
<	<0.050 <0.050 <0.150	0.050 0.050 0.150 0.300	08/22/2019 08/22/2019 08/22/2019 08/22/2019	ND ND ND	1.88 1.93	94.0 96.3	2.00 2.00	4.28 5.20	

Surrogate:	4-Bromoft	luorobenzene	(PID
------------	-----------	--------------	------

Surrogate: 4-Bromojiuorobenzene (FID	103	70 /3.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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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Analytical Results For:

Hungry Horse Environmental NATALIE GLADDEN P.O. Box 1058 Hobbs NM, 88240

Fax To: (505) 391-4585

Received:

08/22/2019

Sampling Date:

08/21/2019

Reported:

08/23/2019

Sampling Type:

Soil

Project Name:

STATE L'A NONE GIVEN

ma/ka

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number: Project Location:

Analyte

GRO C6-C10*

DRO >C10-C28*

EXT DRO > C28 - C36

BTEX 8021B

VANGUARD/ GRIZZLY

Sample ID: COMP 3 (H902886-30)

BIEX 8021B	ilig/	ĸy	Allalyze	u by. Mo					
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 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					

Method Blank

ND

ND

ND

BS

212

215

% Recovery

106

108

True Value QC

200

200

RPD

3.55

4.61

Qualifier

Analyzed

08/22/2019

08/22/2019

08/22/2019

Analyzed By: MS

Surrogate: 1-Chlorooctane 87.9 % 41-142
Surrogate: 1-Chlorooctadecane 141 % 37.6-147

Result

<10.0

287

302

Reporting Limit

10.0

10.0

10.0

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene



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

Notes and Definitions

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

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Celeg D. Freene







Kusn

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 893-2476

Company Name:	75) 393-2326 FAX (575) 893-2476	77 1	BILL TO	ANALYSIS REQUEST
Project Manager:	varywire i chi	00.9	P.O. #:	
Address:			Company: HUNGIU- 1+C	VSE.
City:	State:	Zip:	Attn:	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
Phone #:	Fax #:		Address: 4024 plains city: 100 ing fem	<u> </u>
Project #:	Project Owner		city: OUING YEM	
Project Name:			State: MMZip: 88000	4
Project Location:	State L'A	-	Phone #:	
Sampler Name:		MATRIX	Fax #: PRESERV SAMPLING	49
analyses All claims including t	Sample I.D. Superior	# CONTAINERS GROUNDWATER WASTEWATER WASTEWATER SOIL	ACT OF Lord, shall be limited to the amount paid by the client fand received by Cardinal within 30 days after completion of	for the of the applicable
Relinquished By: Delivered By: Sampler - UPS -	cut of or related to the performance of sorvices hereunder by the sorvices here and the sorvices here and the sorvices here are the sorvices here and the sorvices here are the sorvic	Received By:	Phone Ry Pax Rest REMARK Intion CHECKED BY:	wss. Result: □ Yes □ No Add'l Phone #: sult: □ Yes □ No Add'l Fax #:





Company Name:



BILL TO

Rush

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

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

Project Manager:	Variage Ferrica G			P.O	. #:														
Address:				Cor	npany:														
City:	State:	Zip:		Attı	n:														
Phone #:	Fax#:			Add	dress:														
Project #:	Project Owner			City	/ :					1									
Project Name:				Sta	te:	Zip:				1			1						
Project Location:	State L'A			Pho	one #:														
Sampler Name:	(00)			Fax				3		1					1				
FOR LAB USE ONLY		MATR	XIX	-	PRESERV	SAMPL	ING	3						1					Í
Lab I.D. H902.886 11 (3) 13 (1) 14 (1) 15 (1) 17 (1) 18 (1)	Sample I.D. Closure a-Swa Closure a-Swa Closure a-Swa Closure a-Spa	CONTAINERS	SLUDGE	ОТНЕВ:	ACID/BASE: ACID/BASE: ACID/BASE: ACID/BASE: ACID/BASE: ACID/BASE: ACID/BASE: ACID/BASE:	DATE 8-21-19	8:12 8:21 8:35 8:48 8:57 9:07 9:16		A X X	3 5 7 7	X								
an	Compa	Q I X			X		9:27	V	1	1	V								
analyses. All claims including	Time: Circle One) /, 8c	deemed waived unless made in very gruthout limitation, business intercardinal, regardless of whether sure Received By: Received By: Received By:	Cond	ition	of use, or loss cased upon any o	of profits incurred to the above stated	y client, its subsi	diaries. wise. Result:		Yes Yes EV	107 107	HUM		4- Hers	HKW e.(se Ov	. CO	m	







DILL TO

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: MCCUCUCUC CY12	214	BILL TO	ANALYSIS REQUEST
Project Manager:		P.O. #:	
Address:		Company:	
City: State:	Zip:	Attn:	
Phone #: Fax #:		Address:	
Project #: Project Owne	r:	City:	
Project Name:		State: Zip:	
Project Location: State C'H		Phone #:	
Sampler Name:		Fax #:	
Lab I.D. Sample I.D. 14902886 21 Closure 3 - Swa 23 Closure 3 - Swa 24 Closure 3 - Swa 25 Closure 3 - Swa 26 Closure 3 - Spa 27 Closure 3 - Spa 28 Closure 3 - Spa 29 Slosure 3 - Spa 29 Slosure 3 - Spa 29 Slosure 3 - Spa 20 Closure 3 - Spa 20 Closure 3 - Spa 21 Closure 3 - Spa 22 Closure 3 - Spa 23 Closure 3 - Spa 24 Slosure 3 - Spa 25 Closure 3 - Spa 26 Closure 3 - Spa 27 Closure 3 - Spa 28 Closure 3 - Spa 29 Slosure 3 - Spa	C C C C C C C C C C	PRESERV. SAMPLING	
PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy fo analyses. All claims including those for negligence and any other cause whatsoever shall be	r any claim arising whether based in contr e deemed waived unless made in writing	ract or tort, shall be limited to the amount paid by the client for and received by Cardinal within 30 days after completion of	or the opplicable
service. In no event shall Cardinal be liable for incidental or consequental damages, including affiliates or successors arising out of or related to the performance of services hereunder by	ing without limitation, business interruption	ns, loss of use, or loss of profits incurred by client, its subsidi	ilaries, vise.
Relinquished By: Relinquished By: Date: Time:	Received By:	Phone Re Fax Resu	esult:
Delivered By: (Circle One) /8¢ Sampler - UPS - Bus - Other: Corrected	Sample Conc Cool Intact Pes To No	t (Initials)	uduneHungny-Horse Com



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/ga/lab accred certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/06/2019

Sampling Date:

12/05/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

STATE LA TR 1.2

Sampling Condition:

Cool & Intact

Project Number:

11510

Sample Received By:

Tamara Oldaker

Project Location:

GRIZZLY ENERGY - LEA CO NM

Sample ID: SP # 1 @ 2' (H904097-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	ND	1.74	87.1	2.00	12.2	
Toluene*	0.203	0.050	12/10/2019	ND	1.69	84.7	2.00	12.9	
Ethylbenzene*	0.247	0.050	12/10/2019	ND	1.73	86.5	2.00	12.5	
Total Xylenes*	0.473	0.150	12/10/2019	ND	5.25	87.4	6.00	12.4	
Total BTEX	0.923	0.300	12/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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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	Analyze	d 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	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d 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 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	169 9	% 37.6-14	7						

Cardinal Laboratories

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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:

BTEX 8021B

STATE LA TR 1.2

mg/kg

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

11510

Analyzed By: MS

Project Location: GRIZZLY ENERGY - LEA CO NM

Sample ID: SP # 3 @ 2' (H904097-03)

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 %	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte Chloride	Result	Reporting Limit	Analyzed 12/10/2019	Method Blank	BS 400	% Recovery	True Value QC 400	RPD 7.69	Qualifier
•		16.0	12/10/2019			,			Qualifier S-06
Chloride	848	16.0	12/10/2019	ND		,			·
Chloride TPH 8015M	848 mg/	16.0 kg	12/10/2019 Analyze	ND d By: MS	400	100	400	7.69	S-06
Chloride TPH 8015M Analyte	848 mg/ Result	16.0 kg Reporting Limit	12/10/2019 Analyze Analyzed	ND d By: MS Method Blank	400 BS	100 % Recovery	400 True Value QC	7.69 RPD	S-06

Surrogate: 1-Chlorooctane

326 %

41-142

Surrogate: 1-Chlorooctadecane

767 %

37.6-147

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Celeg D. Freene



Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MS

Fax To: (575) 396-1429

Received:

12/06/2019

Sampling Date:

12/05/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

BTEX 8021B

STATE LA TR 1.2

mg/kg

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

S-04

Project Number: Project Location: 11510

GRIZZLY ENERGY - LEA CO NM

Sample ID: SP # 4 @ 2' (H904097-04)

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	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

Analyzed By: MC

Fax To: (575) 396-1429

Received:

RTFY 8021R

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)

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
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	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/10/2019	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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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: Sample Received By:

Cool & Intact Tamara Oldaker

Project Number: Project Location:

11510

GRIZZLY ENERGY - LEA CO NM

Sample ID: NH - 1 @ SURFACE (H904097-06)

BTEX 8021B	mg	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	ND	1.74	87.1	2.00	12.2	
Toluene*	0.494	0.050	12/10/2019	ND	1.69	84.7	2.00	12.9	
Ethylbenzene*	0.438	0.050	12/10/2019	ND	1.73	86.5	2.00	12.5	
Total Xylenes*	0.634	0.150	12/10/2019	ND	5.25	87.4	6.00	12.4	
Total BTEX	1.57	0.300	12/10/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID

99.4 %

73.3-129

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/10/2019	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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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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: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location: 11510

GRIZZLY ENERGY - LEA CO NM

Sample ID: NH - 1 @ 2' (H904097-07)

BTEX 8021B	mg/	kg	Analyze	d 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 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/10/2019	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	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 9	% 41-142	!						
Surrogate: 1-Chlorooctadecane	109	% 37 6-14	7						

109 % Surrogate: 1-Chlorooctadecane 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

Analyzed By: MC

Received:

RTFY 8021R

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)

B1EX 8021B	mg/	кд	Anaiyze	а ву: мѕ					
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	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/10/2019	ND	400	100	400	7.69	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 41-142	•						
Surrogate: 1-Chlorooctadecane	109 9	% 37.6-14	7						

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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

109 %

37.6-147

Sampling Type:

Soil

Project Name:

STATE LA TR 1.2

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location: 11510

GRIZZLY ENERGY - LEA CO NM

Sample ID: EH - 1 @ 2' (H904097-09)

BTEX 8021B	mg/	kg	Analyze	d 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	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 41-142							

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Surrogate: 1-Chlorooctadecane

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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: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location: 11510

GRIZZLY ENERGY - LEA CO NM

Sample ID: EH - 2 B @ SURFACE (H904097-10)

BTEX 8021B	mg,	'kg	Analyze	d 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	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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Analytical Results For:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:

12/06/2019

Sampling Date:

12/05/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

STATE LA TR 1.2

Sampling Condition:

Cool & Intact

Project Number:

11510

Sample Received By:

Tamara Oldaker

Project Location:

GRIZZLY ENERGY - LEA CO NM

Sample ID: EH - 2 B @ 2' (H904097-11)

BTEX 8021B	mg/	kg	Analyze	d 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	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/10/2019	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	108 9	% 37.6-14	7						

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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

Analyzed By: MS

Received:

BTEX 8021B

12/06/2019

Sampling Date:

12/05/2019

Reported:

12/11/2019

Sampling Type:

12/05/2019 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)

	9/	9	7						
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	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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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 - 1 B @ 2' (H904097-13)

BTEX 8021B	mg/	kg	Analyze	d 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	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	103 %	% 37.6-14	7						

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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	Analyze	d 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	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 37.6-14	7						

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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)

BTEX 8021B	mg/	'kg	Analyze	d 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 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/10/2019	ND	400	100	400	7.69	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	ı						
Surrogate: 1-Chlorooctadecane	79.7	% 37.6-14	7						

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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: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

11510

Project Location: GRIZZLY ENERGY - LEA CO NM

Sample ID: SH - 2 B @ SURFACE (H904097-16)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	ND	2.03	102	2.00	6.59	
Toluene*	<0.050	0.050	12/10/2019	ND	2.04	102	2.00	7.77	
Ethylbenzene*	<0.050	0.050	12/10/2019	ND	1.99	99.6	2.00	7.49	
Total Xylenes*	<0.150	0.150	12/10/2019	ND	5.81	96.8	6.00	7.01	
Total BTEX	<0.300	0.300	12/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
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	% 37.6-14	7						

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Analytical Results For:

Fax To:

Etech Environmental & Safety Solutions LANCE CRENSHAW P.O. Box 301 Lovington NM, 88260

(575) 396-1429

Received:

12/06/2019

Sampling Date:

12/05/2019

Reported:

12/11/2019

Sampling Type:

Soil

Project Name:

STATE LA TR 1.2

Sampling Condition:

Cool & Intact

Project Number:

11510

Sample Received By:

Tamara Oldaker

Project Location:

GRIZZLY ENERGY - LEA CO NM

Sample ID: SH - 2 B @ 2' (H904097-17)

BTEX 8021B Analyte	mg/kg		Analyzed By: MS						
	Result	Reporting Limit	Analyzed	Method Blank	BS G	% 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	% 73.3-12	9						
Chloride, SM4500CI-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	% 37.6-14	7						

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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 @ SURFACE (H904097-18)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/10/2019	ND	2.03	102	2.00	6.59	
Toluene*	<0.050	0.050	12/10/2019	ND	2.04	102	2.00	7.77	
Ethylbenzene*	<0.050	0.050	12/10/2019	ND	1.99	99.6	2.00	7.49	
Total Xylenes*	<0.150	0.150	12/10/2019	ND	5.81	96.8	6.00	7.01	
Total BTEX	<0.300	0.300	12/10/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
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	% 37.6-14	7						

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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

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 Sample Received By: Project Number: 11510 Tamara Oldaker

Project Location: GRIZZLY ENERGY - LEA CO NM

Sample ID: WH - 2 B @ 2' (H904097-19)

Received:

BTEX 8021B	mg/	kg	Analyze	d 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 9	73.3-12	9						
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	ı						
Surrogate: 1-Chlorooctadecane	86.6	% 37.6-14	7						

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S-06



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

Notes and Definitions

The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or

3-00	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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Celeg D. Freene

Relinquished By:

Mu

Relinquished By

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name. Guzzy Energy, LLC		סודר יכ	ANALYSIS RECOEST
Project Manager: Lance Crenshaw		P.O. #:	
Address: 3100 Plains Hwy	***************************************	Company: Grizzley Operatring	
City: Lovington State: NM	Zip: 88260	Attn: Carmen Pitt	
Phone #: 575-396-2378 Fax #: 575-396-1429	6-1429	Address:	
Project #: 11510 Project Owner:	: Grizzly Energy, LLC	City:	
Project Name: State LA TR 1.2		State: Zip:	
Project Location: Rural Lea Co, NM		Phone #:	
Sampler Name:		Fax #:	
FOR LAB USE ONLY	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	Chloride TPH BTEX 8021
1 50 \$1 62'	() () () () ()	12/5/15/00:00	
25042021	, 6 , X	12/2/15 10:15	X X X
3 50#3/21	6 1 8	12/5/15/10:20	メイド
120 ht 45 h	2 3	22:00 1/5/10	XXX
S 564505	^	3/5/5 (0:40	XXX
S NA-LOSUL	0 G W	17/5/19 11:00	メイメ
7 NH-102'	. C 1 ×	01:11:01/5/21	X
8 FH-105ml.	٠ ١	12/6/111:15	ベメス
	· 6 / X	12/5/15/15:25	CXX
10 EH-260 Surt	G 1 A	12/5/17 18:45	XXX
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remary for any claim arising whether based in contract or lord, shall be limited to the amount paid by the client for the	y for any claim arising whether based in contract	112/5/19 11.48	XX
analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable		or tort, shall be limited to the amount paid by the client for tr	no /

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

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

3.10

Sample Condition Cool Intact

SC Tes Tes

No D No

4

CHECKED BY: (Initials) Time:

Received By:

Received By:

upon any of the above stated reasons or otherwise.

Phone Result:

Fax Result:

□ Yes

O No

Add'l Phone #: Add'l Fax #:

REMARKS: Email results to lance@etechenv.com

Relinquished By:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Grizzly Energy, LLC		01718	ANALYSIS REQUEST
Project Manager: Lance Crenshaw		P.O. #:	- 1
Address: 3100 Plains Hwy		Company: Grizzley Operatring	
City: Lovington State: NM	Zip: 88260	ien	
Phone #: 575-396-2378 Fax #: 575-396-1429	6-1429	Address:	
Project #: 11510 Project Owner:	Grizzly Energy, LLC	City:	
Project Name: State LA TR 1.2		State: Zip:	
Project Location: Rural Lea Co, NM		Phone #:	
Sampler Name:		Fax #:	
FOR LAB USE ONLY	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	Chloride TPH BTEX 8021
11 6426021	×	14/5/21	X
12 541B, OSuch	ر ا	57:31 5/15/15	* X X
13 51-18021	6 1 4	12/5/19:35	XXXX
14 WH-1805art	6 1 (34:21 M3R1 X	X \(\(\) \(\)
15 WH-1BOZ'	ر ا	N 19/5/19 1:00	
16 5H-ZB@Surt.	(S)	51.1 6(5/h) X	X
17 51+-28621	S.	05:10/2/2/	
18 WH-2B@Surt.	+ = 2	Jr:10/2/21 X	
19 WH-2BOZ'	7	125/19 2;or	**************************************
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Relinquished By	Received By:	Phone Result:	ilt: □ Yes □ No
Time	1	la l	

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476 Sample Condition
Cool Intact
Tes
No No

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

Time:

CHECKED BY: (Initials)

Received By:

REMARKS: Email results to

lance@etechenv.com

FORM-006 R 2.0

Analytical Report

Report Summary

Client: Grizzly Energy

Job Number: 19054-0003
Work Order: P001026

Project Name/Location: State LA

Report Reviewed By:	Walter Himheren	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 Texas TNI certification T104704557-19-2 for the data reported.

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



Grizzly Energy 4001 Penbrook Suite 201

Odessa TX, 79762

Project Name:

State LA

Project Number: Project Manager: 19054-0003 Lindsey Salgado **Reported:** 01/10/20 12:04

Page 185 of 287

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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5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



Project Name:

State LA

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

SP1-2' P001026-01 (Solid)

		1,0010	20-01 (Sona)						
		Reporting							
Analyte	Result	Limit	Units D	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 - DR	O/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 - GR	0								
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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5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



Project Name:

State LA

4001 Penbrook Suite 201 Odessa TX, 79762

Project Number: 19054-0003 Project Manager: Lindsey Salgado

Reported: 01/10/20 12:04

SP2-2' P001026-02 (Solid)

		F 0010	26-02 (501	iu)					
		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 %	70-1	130	2002030	01/08/20	01/09/20	EPA 8260B	
Surrogate: Bromofluorobenzene		99.9 %	70-1	130	2002030	01/08/20	01/09/20	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO	O/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 %	50-2	200	2002032	01/09/20	01/09/20	EPA 8015D	S3
Nonhalogenated Organics by 8015 - GR	0								
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 %	70-1	130	2002030	01/08/20	01/09/20	EPA 8015D	
Surrogate: Toluene-d8		103 %	70-1	130	2002030	01/08/20	01/09/20	EPA 8015D	
Surrogate: Bromofluorobenzene		99.9 %	70-1	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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5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Project Name:

State LA

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

SP3-2' P001026-03 (Solid)

			26-03 (Soli	ia)					
		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 %	70-1	30	2002030	01/08/20	01/09/20	EPA 8260B	
Surrogate: Toluene-d8		101 %	70-1	30	2002030	01/08/20	01/09/20	EPA 8260B	
Surrogate: Bromofluorobenzene		97.8 %	70-1	30	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 %	50-2	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 %	70-1	30	2002030	01/08/20	01/09/20	EPA 8015D	
Surrogate: Toluene-d8		101 %	70-1	30	2002030	01/08/20	01/09/20	EPA 8015D	
Surrogate: Bromofluorobenzene		97.8 %	70-1	30	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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5796 Highway 64, Farmington, NM 87401

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Project Name:

State LA

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

SP4-2' P001026-04 (Solid)

		P0010	26-04 (Solid)					
		Reporting						
Analyte	Result	Limit	Units Dil	ution 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 - DR	O/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 - GR	0							
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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5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



Project Name:

State LA

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

SP5-2' P001026-05 (Solid)

			20-03 (30)	iiu)					
		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 %	50-2	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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5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



Project Name:

State LA

4001 Penbrook Suite 201 Odessa TX, 79762

Project Number: 19054-0003 Project Manager: Lindsey Salgado

Reported: 01/10/20 12:04

Volatile Organic Compounds by 8260 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	
Batch 2002030 - Purge and Trap EPA 5030A											
Blank (2002030-BLK1)				Prepared: (01/08/20 1 A	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 A	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)	Sou	ırce: 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)	Sou	ırce: P001027-	01	Prepared: (01/08/20 1 A	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				

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0.500

98.1

70-130

0.491

5796 Highway 64, Farmington, NM 87401

Surrogate: Bromofluorobenzene

Ph (505) 632-0615 Fx (505) 632-1865

Project Name:

State LA

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

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

					_					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2002032 - DRO Extraction EPA 3570										
Blank (2002032-BLK1)				Prepared: (01/09/20 0 A	Analyzed: 0	1/09/20 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 A	Analyzed: 0	1/09/20 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)	Sou	rce: P001027-	01	Prepared: (01/09/20 0 A	Analyzed: 0				
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)	Sou	rce: P001027-	01	Prepared: (01/09/20 0 2	Analyzed: 0	1/09/20 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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5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



Project Name:

Reporting

0.472

State LA

Spike

0.500

94.4

70-130

Source

%REC

4001 Penbrook Suite 201 Odessa TX, 79762

 ${\it Surrogate: Bromofluor obenzene}$

Project Number: 19054-0003 Project Manager: Lindsey Salgado

Reported: 01/10/20 12:04

RPD

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

		reporting		Брис	Bource		/ OTCL		IG D	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2002030 - Purge and Trap EPA 5030A										
Blank (2002030-BLK1)				Prepared: (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 A	Analyzed: 0	1/10/20 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)	Sou	rce: 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: (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			

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Analyte

Project Name:

Reporting

Limit

Pocult

State LA

Spike

Laval

Source

Pacult

%PEC

%REC

Limite

DDD

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

RPD

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Unite

Analyte	Result	LIIIII	Units	Level	Result	70KEC	LIIIIIS	KPD	LIIIII	Notes
Batch 2002034 - Anion Extraction EPA 3	00.0/9056A									
Blank (2002034-BLK1)				Prepared &	Analyzed	: 01/09/20 ()			
Chloride	ND	20.0	mg/kg							
LCS (2002034-BS1)				Prepared: 01/09/20 0 Analyzed: 01/09/20 1						
Chloride	249	20.0	mg/kg	250		99.5	90-110			
Matrix Spike (2002034-MS1)	Source	e: P001026-	01	Prepared: 01/09/20 0 Analyzed: 01/09/20 1			01/09/20 1			
Chloride	1340	20.0	mg/kg	250	1110	92.4	80-120			
Matrix Spike Dup (2002034-MSD1)	Source	Source: P001026-01		Prepared: 01/09/20 0 Analyzed: 01/09/20 1			01/09/20 1			
Chloride	1240	20.0	mg/kg	kg 250 1110 53.2 80-120 7.58 20						M2

QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

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Reported:

01/10/20 12:04

Grizzly Energy Project Name: State LA

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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Labadmin@envirotech-inc.com

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(ID)	Page of	of 13
TAT	EPA Program	150

Report due by: Address: D DOX D D D D D D D D D	Attention Lab Use Only TAT EPA Program
Project Manager: LINOSLU SALATION Address: QO DOX 105% City, State, Zip Phone: Email: JSALATIOOS NUMANI-TUSS CONTAINERS Sampled Sample	lab WO# Job Number 1D 3D RCRA CWA SDW 9
Address: OD FOX 105 % City, State, Zip Phone: Email: \ \Sau \text{Matrix}\ \text{Sampled}\ \text{Sample ID} \ \text{Matrix}\ \text{Sample ID} \ \text{Sample ID}	100000 P001026 19054-2003
Phone: Email: Sal Mado & humani-muston Email: Nota addlush humani-muston Rem	Analysis and Method State
Phone: Email: Sal Mado Shuman Matrix Sampled Sam	되 되 NM CO UT AZ
9:39 1/6/20 5 1 Sp1-2' 9:48 1/6/20 (Sp2-2' 10:37 1/6/20 (Sp3-2' 11:07 1/6/20 (Sp4-2' 4 V (V)	
9:39 1/6/20 5 1 Sp1-2' 9:48 1/6/20 (Sp2-2' 10:39 1/6/20) Sp3-2' 11:07 1/6/20 5 Sp4-2' 4 V O V	1 MM V AM - NAL8 " LIMB 26 28 28 28 28 28 24 24 24
9.48 1/6/20 (Sp2-2' 2 440 V (Sp3-2' 3 V V V V) (Sp3-2' 4 V V V V) (Sp4-2' 4 V V V V)	Namper Remarks Lap NOC by VOC
10:37 1/6/20 Sp3-2' 11:07 1/6/20 Sp4-2' 4 V V V	1 X XX X Smell bad
11:07 16/20 Spy-2" 4 VVQ V	2 440 0 (
	3 V V V V
12:18 1/10/20 / 505-2 5 000 4	4 1/00 1/
	50004
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 sam received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.	
Relinquished by: (Signature) Date Date Time Lab Use Only	200 000 0111)
Relinquished by: (Signature) Date Time Received by: (Signature) Date Time T1 T2 T3	
LET 1.8.2020 1500 Kaija Lark 119120 9:30 AVG Temp°C_4	
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other	Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is 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.	us samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable

envirotech
Analytical Laboratory

5795 US Highway 64, Farmington, NM 87401

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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:	Walter Homberson	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. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported. Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.

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Grizzly Energy 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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Project Name:

State 1A

4001 Penbrook Suite 201 Odessa TX, 79762 Project Number: 19054-0003 Project Manager: Natalie Gladden **Reported:** 01/10/20 12:06

SW 1-2' P001027-01 (Solid)

		Reporting	27-01 (Sulu)					
Analyte	Result	Limit	Units Di	lution 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/O	RO							
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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Project Name:

State 1A

4001 Penbrook Suite 201 Odessa TX, 79762 Project Number: 19054-0003 Project Manager: Natalie Gladden **Reported:** 01/10/20 12:06

SW 2-2' P001027-02 (Solid)

		Reporting	27-02 (Sulu)					
Analyte	Result	Limit	Units D	ilution 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/0	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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Project Name:

State 1A

4001 Penbrook Suite 201 Odessa TX, 79762 Project Number: 19054-0003 Project Manager: Natalie Gladden **Reported:** 01/10/20 12:06

SW 3-2' P001027-03 (Solid)

			27-03 (Solia)					
		Reporting						
Analyte	Result	Limit	Units Dilution	n 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/O	RO							
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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Project Name:

State 1A

4001 Penbrook Suite 201 Odessa TX, 79762 Project Number: 19054-0003 Project Manager: Natalie Gladden **Reported:** 01/10/20 12:06

SW 4-2' P001027-04 (Solid)

P001027-04 (Solid)										
		Reporting								
Analyte	Result	Limit	Units Dilution	n 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/O	RO									
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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Project Name:

State 1A

4001 Penbrook Suite 201 Odessa TX, 79762 Project Number: 19054-0003 Project Manager: Natalie Gladden **Reported:** 01/10/20 12:06

SW 5-2' P001027-05 (Solid)

			27-05 (Solid)					
		Reporting						
Analyte	Result	Limit	Units Dilution	n 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/O	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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Project Name:

State 1A

4001 Penbrook Suite 201 Odessa TX, 79762 Project Number: 19054-0003 Project Manager: Natalie Gladden **Reported:** 01/10/20 12:06

SW 6-2' P001027-06 (Solid)

P001027-06 (Solid)										
		Reporting								
Analyte	Result	Limit	Units Di	lution 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/O	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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Project Name:

State 1A

4001 Penbrook Suite 201 Odessa TX, 79762

Project Number: 19054-0003 Project Manager: Natalie Gladden

Reported: 01/10/20 12:06

SW 7-2' P001027-07 (Solid)

-			27-07 (Solid)					
		Reporting						
Analyte	Result	Limit	Units D	ilution 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/0	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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5796 Highway 64, Farmington, NM 87401

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Project Name:

Reporting

State 1A

Spike

Source

101

103

101

98.1

43-135

70-130

70-130

70-130

1.71

%REC

4001 Penbrook Suite 201 Odessa TX, 79762

Project Number: 19054-0003 Project Manager: Natalie Gladden

Reported: 01/10/20 12:06

RPD

Volatile Organic Compounds by 8260 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2002030 - Purge and Trap EPA 50	30A									
Blank (2002030-BLK1)				Prepared: (01/08/20 1	Analyzed: 0	1/09/20 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: 0	1/10/20 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)	Sour	ce: P001027-	01	Prepared: (01/08/20 1	Analyzed: 0	1/10/20 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)	Sour	ce: P001027-	01	Prepared: (01/08/20 1	Analyzed: 0	1/10/20 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	
T-4-1 V-1	7.50	0.0250	"	7.50	NID	101	42 125	1.71	27	

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7.50

0.500

0.500

0.500

7.58

0.516

0.506

0.491

5796 Highway 64, Farmington, NM 87401

Total Xylenes

Surrogate: Toluene-d8

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Bromofluorobenzene

Ph (505) 632-0615 Fx (505) 632-1865

Project Name:

State 1A

4001 Penbrook Suite 201 Odessa TX, 79762 Project Number: 19054-0003 Project Manager: Natalie Gladden **Reported:** 01/10/20 12:06

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2002032 - DRO Extraction EPA 3570										
Blank (2002032-BLK1)				Prepared: (01/09/20 0 A	Analyzed: 0	1/09/20 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 A					
Diesel Range Organics (C10-C28)	511	25.0	mg/kg	500		102				
Surrogate: n-Nonane	54.3		"	50.0		109	50-200			
Matrix Spike (2002032-MS1)	Sour	ce: P001027-	01	Prepared: (01/09/20 0 A	Analyzed: 0	1/09/20 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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Project Name:

Reporting

State 1A

4001 Penbrook Suite 201 Odessa TX, 79762

Project Number: 19054-0003 Project Manager: Natalie Gladden

Reported: 01/10/20 12:06

RPD

%REC

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Spike

Source

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2002030 - Purge and Trap EPA 5030A										
Blank (2002030-BLK1)				Prepared: (01/08/20 1 A	Analyzed: 0	1/09/20 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 A	Analyzed: 0	1/10/20 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)	Sour	ce: P001027-	01	Prepared: (01/08/20 1 A	Analyzed: 0	1/10/20 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 A	Analyzed: 0	1/10/20 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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Project Name:

Reporting

State 1A

Spike

Source

%REC

4001 Penbrook Suite 201 Odessa TX, 79762

Project Number: 19054-0003 Project Manager: Natalie Gladden

Reported: 01/10/20 12:06

RPD

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2002034 - Anion Extraction EPA 3	00.0/9056A									
Blank (2002034-BLK1)				Prepared &	Analyzed:	01/09/20 0				
Chloride	ND	20.0	mg/kg							
LCS (2002034-BS1)				Prepared: ()1/09/20 0 A	Analyzed: 0	1/09/20 1			
Chloride	249	20.0	mg/kg	250		99.5	90-110			
Matrix Spike (2002034-MS1)	Source	e: P001026-	01	Prepared: ()1/09/20 0 A	Analyzed: 0	1/09/20 1			
Chloride	1340	20.0	mg/kg	250	1110	92.4	80-120			
Matrix Spike Dup (2002034-MSD1)	Source	e: P001026-	01	Prepared: ()1/09/20 0 A	Analyzed: 0	1/09/20 1			
Chloride	1240	20.0	mg/kg	250	1110	53.2	80-120	7.58	20	M2

QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

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Grizzly Energy Project Name: State 1A

4001 Penbrook Suite 201Project Number:19054-0003Reported:Odessa TX, 79762Project Manager:Natalie Gladden01/10/20 12:06

Notes and Definitions

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Labadmin@envirotech-inc.com

envirotech-inc.com

Project	Information
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Chain of Custody Zlony

	2
Page	of

Client: Gr; 22/ y	Report Attention	1			ab U	se On	ly	1-10-		T	AΤ	E	EPA Program		
Project: Gladden	Report Attention Report due by: Hunger Horse Attention: Parke Gladder	Lab PE	WO#	‡		Job N	Vuml	ber 1-0	003	1D,	3D	RCRA	CWA	SDW	
Address:	Address:					Analy							Sta	ate	
City, State, Zip	City, State, Zip	15	15										NM CO	UT AZ	
Phone:	Phone:	y 80	y 80	11	0	0.0								13 1	
Email:	Email: ncladder hungy hore	NO b	30 b	/ 802	826	e 30		200	N.	XT.					
Time Date Sampled 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			Rem	narks	
9:20 1-7-25 5 1 5W1									(
10:06 1-7-20 (522	2.								(
10:45 1-7-6) sn 3	3														
11:34 1-7-20 (Sw4	4								1						
12:46 1-7-20 Sus	5														
1:35 1-7-70 (Sub	6														
7:23 -7-20 } \ sw7	7								5						
Additional Instructions:															
I, (field sampler), attest to the validity and authenticity of this sample. I am awar time of collection is considered fraud and may be grounds for legal action. Samp													e day they are sar subsequent days	A CONTRACTOR	
Relinquished by: (Signature) Date Signature Date Signature Date Signature Signature Date Date Signature Date Date	Received by: (Signature) Date	2022	Time	03	0	Rece	ived	on ic	e:		b Us	e Only			
Relinquished by: (Signature) Date Time	Received by: (Signature) Date Date		Time	:30		T1 AVG				T2			<u>T3</u>		
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other_	Containe	г Туре	: g - g	glass,	p - p	oly/pla	stic,	ag - a	mbe	r glas	s, v -	VOA			
Note: Samples are discarded 30 days after results are reported unless only to those samples received by the laboratory with this COC. The I	other arrangements are made. Hazardous samples will be returned to cability of the laboratory is limited to the amount paid for on the report.	ient or	dispos	ed of a	at the	client ex	pense.	. The r	eport	for the	analys	sis of the abo	ove samples is	applicable	



Project	Information
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Chain of Custody Zlony

	1
Page	of

Client: Gr; 22/ y	Report Attention			Láb U	se On	ly		T	AT	Е	PA Progra	
Project: Gate 1A Project Manager: 1. Gladden Attention:	Report Attention W: Hunger Horse Lacke Gladdere	Lab W	0#			lumbe			, 3D	RCRA	CWA	Page IDS
Address: Address:	poolic Glooder	POC	102	+			-000				CI	
Address: City, State, Zip Address: City, State, Zip	in	10	0	1	Analy	sis and	Meth	od			NM CO	
Phone: Phone:		8015	801		0			V)	,		IVIVI CO	UT AZ
Email:	dder here have	o by	90 by	3260	300.		. NA	¥				
Time Date Sampled Sampled Matrix No Containers Sample ID	Lab Number	ORO/ORO by	GRO/DRO By 8015 BTEX by 8021	VOC by 8260	Chloride 300.0		TCEQ 1005	BGDOC-			Rem	arks
9:20 1-7.25 1 541-2'												
10:06 1-7-20 (522-21	2.						(
	3)	age to			
10:45 1-7-20 5 m 3 - 2' 11:34 1-7-20 5 m 4 - 2'	4											
17:46 1-7-20 Su5-2'	5						(
12:46 1-7-20 Sw5-2' 1:35 1-7-20 Sw6-2'	io											
723 -7-20 5007-2'	7						(
	A transcription of the											
Additional Instructions:						4						
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intertime of collection is considered fraud and may be grounds for legal action. Sampled by:	ntionally mislabelling the sample location, date or				A CONTRACTOR OF THE PARTY OF TH						ne day they are san n subsequent days	
1 adoll silader 18 20	by/(signature) Date 1.8.2	Tir	me 10.	30	Rece	ived o	on ice:	(\ (\)	ab Us	e Only		
Relinquished by: (Signature) Date Time Received by: (Signature) Date Time T1 T2 T3 AVG Temp °C AVG Temp °C												
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other	Container	Type: g	g - glas	5, p - p	SATISFICATION CONTRACTOR	ALANIHAR DESIGNATION OF THE	The second second	ber gla	ass, v -	VOA		THE PERSON NAMED IN
Note: Samples are discarded 30 days after results are reported unless other arrangements are monly to those samples received by the laboratory with this COC. The liability of the laboratory is	nade. Hazardous samples will be returned to cli										ove samples i	applicable
				Ph (505)	632-188	Fx (505	5) 632-18	65		envir	otech-inc.com	
	sponse Phone (800) 352-1879			[]			-,		lal	oadmin@en	virotech-inc.c	om)



Analytical Report

Report Summary

Client: Grizzly Energy

Samples Received: 1/31/2020 Job Number: 19054-0003 Work Order: P001094

Project Name/Location: State LA

Report Reviewed By: Date Standard Date Stand	ate: 2/	2/3/20
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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. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported. Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.

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Project Name:

State LA

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

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Bottom Composite	P001094-01A	Soil	01/29/20	01/31/20	Glass Jar, 4 oz.

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Grizzly Energy 4001 Penbrook Suite 201 Odessa TX, 79762 Project Name:

State LA

Project Number:
Project Manager:

19054-0003 Natalie Gladden **Reported:** 02/03/20 14:13

Bottom Composite P001094-01 (Solid)

		P0010	094-01 (Sona)					
		Reporting							
Analyte	Result	Limit	Units D	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg 1		2005035	01/31/20	01/31/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg 1		2005035	01/31/20	01/31/20	EPA 8021B	
Ethylbenzene	0.0370	0.0250	mg/kg 1		2005035	01/31/20	01/31/20	EPA 8021B	
p,m-Xylene	0.0929	0.0500	mg/kg 1		2005035	01/31/20	01/31/20	EPA 8021B	
o-Xylene	0.0389	0.0250	mg/kg 1		2005035	01/31/20	01/31/20	EPA 8021B	
Total Xylenes	0.132	0.0250	mg/kg 1		2005035	01/31/20	01/31/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %	50-150		2005035	01/31/20	01/31/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DR	O/ORO								
Diesel Range Organics (C10-C28)	388	25.0	mg/kg 1		2005033	01/31/20	01/31/20	EPA 8015D	
Oil Range Organics (C28-C40)	133	50.0	mg/kg 1		2005033	01/31/20	01/31/20	EPA 8015D	
Surrogate: n-Nonane		106 %	50-200)	2005033	01/31/20	01/31/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GR	.0								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1		2005035	01/31/20	01/31/20	EPA 8015D	_
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.8 %	50-150)	2005035	01/31/20	01/31/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	75.2	20.0	mg/kg 1		2005037	01/31/20	01/31/20	EPA 300.0/9056A	

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Project Name:

State LA

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

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

	Reporting			Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2005035 - Purge and Trap EPA 5030A										
Blank (2005035-BLK1)				Prepared: 01/31/20 0 Analyzed: 01/31/20 1						
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.63		"	8.00		108	50-150			
LCS (2005035-BS1)	Prepared: 01/31/20 0 Analyzed: 01/31/20 1									
Benzene	5.12	0.0250	mg/kg	5.00		102	70-130			
Toluene	5.13	0.0250	"	5.00		103	70-130			
Ethylbenzene	5.11	0.0250	"	5.00		102	70-130			
p,m-Xylene	10.2	0.0500	"	10.0		102	70-130			
o-Xylene	5.14	0.0250	"	5.00		103	70-130			
Total Xylenes	15.3	0.0250	"	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.59		"	8.00		107	50-150			
Matrix Spike (2005035-MS1)	Source: P001096-01			Prepared: (01/31/20 0 A	Analyzed: 0				
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			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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Project Name:

State LA

4001 Penbrook Suite 201 Project Number:
Odessa TX, 79762 Project Manager:

19054-0003 Natalie Gladden **Reported:** 02/03/20 14:13

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

					_					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2005033 - DRO Extraction EPA 3570										
Blank (2005033-BLK1)				Prepared: (01/31/20 0	Analyzed: 0	2/03/20 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: 0	1/31/20 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)	Sou	rce: P001096-	01	Prepared: (01/31/20 0	Analyzed: 0	1/31/20 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)	Sou	rce: P001096-	01	Prepared: (01/31/20 0	Analyzed: 0	1/31/20 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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Project Name:

Reporting

State LA

Spike

Source

%REC

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

RPD

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

				~ [,			
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2005035 - Purge and Trap EPA 5030A										
Blank (2005035-BLK1)				Prepared:	01/31/20 0	Analyzed: 0	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: 0	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)	Sour	rce: P001096-	01	Prepared:	01/31/20 0	Analyzed: 0	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)	Sour	rce: P001096-	01	Prepared:	01/31/20 0	Analyzed: 0	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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Project Name:

Reporting

State LA

Spike

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

RPD

%REC

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2005037 - Anion Extraction EPA 30	00.0/9056A									
Blank (2005037-BLK1)				Prepared: (01/31/20 0 A	Analyzed: 0	1/31/20 1			
Chloride	ND	20.0	mg/kg							
LCS (2005037-BS1)				Prepared: (01/31/20 0 A	Analyzed: 0	1/31/20 1			
Chloride	253	20.0	mg/kg	250		101	90-110			
Matrix Spike (2005037-MS1)	Source	: P001094-	01	Prepared: (01/31/20 0 A	Analyzed: 0	1/31/20 1			
Chloride	348	20.0	mg/kg	250	75.2	109	80-120			
Matrix Spike Dup (2005037-MSD1)	Source	: P001094-	01	Prepared: (01/31/20 0 A	Analyzed: 0	1/31/20 1			
Chloride	358	20.0	mg/kg	250	75.2	113	80-120	2.82	20	

QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

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Grizzly Energy Project Name: State LA

4001 Penbrook Suite 201Project Number:19054-0003Reported:Odessa TX, 79762Project Manager:Natalie Gladden02/03/20 14:13

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Client:	155,0	4			Report Attention		, E	7	La	ab Us	se Onl	у			TA	AT.		PA Progr	am g
Project:			100	1720	Report due by:		Lab	WO#	†		Job N				1D	3D	RCRA	CWA	SDW
	lanager:	Nata	Je W	ladden	Attention: Letalie Glosc	der	Po	010	94		19	054	4-01	303	X				
Address:	1201				Address:						Analys	sis and	d Met	hod	1 -				ate
City, Stat	e, Zip				City, State, Zip		115	115										NM CO	UT AZ
Phone:					Phone: 57,5-390-439	7	y 80	y 80	1	0	0.0	100							
Email:					Email: nckacherra num	hone	30 b	30 b	802	826	300		305	ΣN	X.				
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	0	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	ВТЕХ by 8021	VOC by 8260	Chloride 300.0		TCEQ 1005	BGDOC - NM	BGDOC - TX			Rei	marks
2:00	1-29-20	501	1	Bottor	n Composite	1							,	V					
												1							
					7								+	+					
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Addition	al Instruc	tions:					-												
				his sample. I am aware for legal action. Sample	that tampering with or intentionally mislabelling the sample locat	ion, date or					100							ne day they are sa n subsequent day	
Relinquishe	d by: (Signa	ature)	Date	Time	Received by: (Senature)	Date /-30.	202	Time	13	20	Recei	ved c	on ice	:	La	b Use	e Only		
Relinquishe	ed by: (Signa	nture)	Date	10.2020 /	Received by: (Signature) Received by: (Signature) Received by: (Signature)	/-30. Date 31/2	211	Time PLQ	:30		T1 AVG	Temn	°C	y	Г2			<u>T3</u>	
Sample Mari	V: S - Soil, So	- Solid, Sg -	Sludge, A - A	queous, O - Other	- Control of the cont	Container	Type	: g - g	lass.	p - p	olv/pla	stic. a	g - ar	nber	glas	s. v - \	/OA	The second	
Note: Sample	es are discard	led 30 days a	fter results a	re reported unless ot	her arrangements are made. Hazardous samples will be r	returned to cli	ent or	dispos	ed of a	t the c	lient exp	oense.	The re	port f	or the	analys	is of the ab	ove samples i	s applicable

envirotech
Analytical Laboratory

5795 US Highway 64, Farmington, NM 87401

Ph (505) 632-1881 Fx (505) 632-1865

envirotech-inc.com

24 Hour Emergency Response Phone (800) 362-1879

labadmin@envirotech-inc.com



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:
--------	----------	-----

Walter Hinkon

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. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported. Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.

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Grizzly Energy Project Name: State LA

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

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Тор	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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Project Name:

State LA

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

Top P002065-01 (Solid)

		P0020	02-01 (20110	.)					
		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	
Surrogate: 4-Bromochlorobenzene-PID		104 %	50-15	0	2009001	02/24/20	02/24/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/O	RO								
Diesel Range Organics (C10-C28)	263	50.0	mg/kg 2		2009003	02/24/20	02/24/20	EPA 8015D	
Oil Range Organics (C28-C40)	440	100	mg/kg 2		2009003	02/24/20	02/24/20	EPA 8015D	
Surrogate: n-Nonane		118 %	50-20	0	2009003	02/24/20	02/24/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1		2009001	02/24/20	02/24/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.9 %	50-15	0	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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Project Name:

State LA

4001 Penbrook Suite 201 Odessa TX, 79762

Project Number: Project Manager: 19054-0003 Fabian Franco

Reported: 02/25/20 14:50

E1 P002065-02 (Solid)

		1 0020	03-02 (3011	u)					
		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	
Surrogate: 4-Bromochlorobenzene-PID		105 %	50-1.	50	2009001	02/24/20	02/24/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OI	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009003	02/24/20	02/24/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009003	02/24/20	02/24/20	EPA 8015D	
Surrogate: n-Nonane		86.3 %	50-2	00	2009003	02/24/20	02/24/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009001	02/24/20	02/24/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.8 %	50-1.	50	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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Project Name:

State LA

4001 Penbrook Suite 201 Odessa TX, 79762

Project Number: 19054-0003 Project Manager: Fabian Franco

Reported: 02/25/20 14:50

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2009001 - Purge and Trap EPA 5030A										
Blank (2009001-BLK1)				Prepared: ()2/24/20 0 A	Analyzed: 0	2/24/20 1			
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.37		"	8.00		105	50-150			
LCS (2009001-BS1)				Prepared: (02/24/20 0 A	Analyzed: 0	2/24/20 1			
Benzene	4.85	0.0250	mg/kg	5.00		96.9	70-130			
Toluene	4.85	0.0250	"	5.00		96.9	70-130			
Ethylbenzene	4.84	0.0250	"	5.00		96.7	70-130			
p,m-Xylene	9.65	0.0500	"	10.0		96.5	70-130			
o-Xylene	4.84	0.0250	"	5.00		96.8	70-130			
Total Xylenes	14.5	0.0250	"	15.0		96.6	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.44		"	8.00		105	50-150			
Matrix Spike (2009001-MS1)	Sour	ce: P002058-	01	Prepared: (02/24/20 0 A	Analyzed: 0	2/24/20 1			
Benzene	5.07	0.0250	mg/kg	5.00	ND	101	54.3-133			
Toluene	5.07	0.0250	"	5.00	ND	101	61.4-130			
Ethylbenzene	5.06	0.0250	"	5.00	ND	101	61.4-133			
p,m-Xylene	10.1	0.0500	"	10.0	ND	101	63.3-131			
o-Xylene	5.07	0.0250	"	5.00	ND	101	63.3-131			
Total Xylenes	15.2	0.0250	"	15.0	ND	101	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.46		"	8.00		106	50-150			
Matrix Spike Dup (2009001-MSD1)	Sour	ce: P002058-	01	Prepared: (02/24/20 0 A	Analyzed: 0	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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Project Name:

State LA

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

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2009003 - DRO Extraction EPA 3570										
Blank (2009003-BLK1)				Prepared: (02/24/20 0 A	Analyzed: 0	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 A	Analyzed: 0	2/24/20 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)	Sour	ce: P002065-	01	Prepared: (02/24/20 0 A	Analyzed: 0	2/24/20 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)	Sour	ce: P002065-	01	Prepared: (02/24/20 0 A	Analyzed: 0	2/24/20 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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Project Name:

Reporting

State LA

Spike

Source

%REC

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

RPD

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

				~ [,			
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2009001 - Purge and Trap EPA 5030A										
Blank (2009001-BLK1)				Prepared:	02/24/20 0	Analyzed: 0	2/24/20 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: 0	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)	Sour	ce: P002058-	01	Prepared:	02/24/20 0	Analyzed: 0	2/24/20 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)	Sour	ce: P002058-	01	Prepared:	02/24/20 0	Analyzed: 0	2/24/20 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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Project Name:

Reporting

State LA

Spike

Source

%REC

4001 Penbrook Suite 201 Odessa TX, 79762 Project Number: 19054-0003 Project Manager: Fabian Franco Reported:

02/25/20 14:50

RPD

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2009002 - Anion Extraction EPA 300.	0/9056A									
Blank (2009002-BLK1)				Prepared: (02/24/20 0 A	Analyzed: 0	2/24/20 1			
Chloride	ND	20.0	mg/kg							
LCS (2009002-BS1)				Prepared: (02/24/20 0 A	Analyzed: 0	2/24/20 1			
Chloride	253	20.0	mg/kg	250		101	90-110			
Matrix Spike (2009002-MS1)	Source	e: P002058-	01	Prepared: (02/24/20 0 A	Analyzed: 0	2/24/20 1			
Chloride	334	20.0	mg/kg	250	81.9	101	80-120			
Matrix Spike Dup (2009002-MSD1)	Source	e: P002058-	01	Prepared: (02/24/20 0 A	Analyzed: 0	2/24/20 1			
Chloride	334	20.0	mg/kg	250	81.9	101	80-120	0.0568	20	

QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

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Grizzly Energy Project Name: State LA

4001 Penbrook Suite 201Project Number:19054-0003Reported:Odessa TX, 79762Project Manager:Fabian Franco02/25/20 14:50

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Client: 777271	Bill To			L	ab Us	se On	ly		T	AT	E	PA Progr	am
Project: State 19 Project Manager: Fabian France	Attention: Natalie Gladdly Address:	-	Lab WC	otat	TPL	Job I	Number 054-0	0003	1D	3D	RCRA	CWA	SDWA
Address:	City, State, Zip HO hhS Nm						sis and N					St	ate
City, State, Zip	Phone:	¥							7.3				UTA
Phone:	Email: Nala dalus huns	n-hin	8015										
mail:	100 tecto - Tour	9	08 /	-	_	5.1	0.0		12			TX OK	
Report due by:			0 p	802	8260	5010	300		N N	×	1.0013		
Time Date Sampled Matrix No Containers Sample ID		Lab Number	DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC - NM	BGDOC.		Rer	marks
2:23 2/28/80 S 1 TOD		1							X	7			
:37 2/20/20 1 1 51		2							V	2			
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dditional Instructions:	,												
field sampler), attest to the validity and authenticity of this sample. I am awa me of collection is considered fraud and may be grounds for legal action. Samp		on, date or										e day they are sar subsequent days	
	Passived by (Signature)	2.71.2	Tim	151	15	Rece	ived on	ice:	La	b Use	Only		
elinquished by: (Signature) Date Time	Received by: (Signature)	2.21.2 Date 2.1221 Date	Tim	1:216	-	T1	ived on	ice:	Ta	,		T3	
Date Time	Received by: (Signature)	ate	Tim	- 70		11			12			15	
mple Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _		Container	Tunnis	alacc	_		Temp °		e ala		10.4		
mple matrix. 3 - 3011, 34 - 30114, 38 - 3104ge, A - Aqueous, O - Other _		.ontamer	IAUH. B.	DIACC	11 - DC		ILTIC 30 .		COLDC	- W - W	(1/)		





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:	Walter Hunking	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. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported. Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.

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Grizzly Energy 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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Project Name:

State LA

4001 Penbrook Suite 201 Project Number:
Odessa TX, 79762 Project Manager:

19054-0003 Natalie Gladden **Reported:** 03/02/20 14:21

Composite Mix 1 P002097-01 (Solid)

		P0020	97-01 (Solid)					
		Reporting						
Analyte	Result	Limit	Units Di	ution Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021								
Benzene	ND	0.0250	mg/kg 1	2009035	02/28/20	02/28/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg 1	2009035	02/28/20	02/28/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg 1	2009035	02/28/20	02/28/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg 1	2009035	02/28/20	02/28/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg 1	2009035	02/28/20	02/28/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg 1	2009035	02/28/20	02/28/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50-150	2009035	02/28/20	02/28/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO	D/ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	2009034	02/28/20	02/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	2009034	02/28/20	02/28/20	EPA 8015D	
Surrogate: n-Nonane		112 %	50-200	2009034	02/28/20	02/28/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO)							
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	2009035	02/28/20	02/28/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.2 %	50-150	2009035	02/28/20	02/28/20	EPA 8015D	
Anions by 300.0/9056A								
Chloride	194	20.0	mg/kg 1	2009037	02/28/20	02/28/20	EPA 300.0/9056A	

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Project Name: Project Number:

Project Manager:

State LA

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

Composite Mix 2 P002097-02 (Solid)

	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				
Surrogate: 4-Bromochlorobenzene-PID		103 %	50-1	50	2009035	02/28/20	02/28/20	EPA 8021B				
Nonhalogenated Organics by 8015 - DRO	O/ORO											
Diesel Range Organics (C10-C28)	102	25.0	mg/kg	1	2009034	02/28/20	02/28/20	EPA 8015D				
Oil Range Organics (C28-C40)	95.7	50.0	mg/kg	1	2009034	02/28/20	02/28/20	EPA 8015D				
Surrogate: n-Nonane		95.1 %	50-2	200	2009034	02/28/20	02/28/20	EPA 8015D				
Nonhalogenated Organics by 8015 - GRO)											
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8015D				
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.1 %	50-1	50	2009035	02/28/20	02/28/20	EPA 8015D				
Anions by 300.0/9056A												
Chloride	36.3	20.0	mg/kg	1	2009037	02/28/20	02/28/20	EPA 300.0/9056A				

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Project Name:

State LA

4001 Penbrook Suite 201 Project Number:
Odessa TX, 79762 Project Manager:

19054-0003 Natalie Gladden **Reported:** 03/02/20 14:21

SW1 P002097-03 (Solid)

	1 002077-05 (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				
Surrogate: 4-Bromochlorobenzene-PID		104 %	50-	150	2009035	02/28/20	02/28/20	EPA 8021B				
Nonhalogenated Organics by 8015 - DRO/OR	0											
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009034	02/28/20	02/28/20	EPA 8015D				
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009034	02/28/20	02/28/20	EPA 8015D				
Surrogate: n-Nonane		89.3 %	50-	200	2009034	02/28/20	02/28/20	EPA 8015D				
Nonhalogenated Organics by 8015 - GRO												
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8015D				
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.9 %	50-	150	2009035	02/28/20	02/28/20	EPA 8015D				
Anions by 300.0/9056A												
Chloride	112	20.0	mg/kg	1	2009037	02/28/20	02/28/20	EPA 300.0/9056A				

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Project Name:

State LA

4001 Penbrook Suite 201 Odessa TX, 79762

Project Number: 19054-0003 Project Manager: Natalie Gladden

Reported: 03/02/20 14:21

SW2 P002097-04 (Solid)

P002097-04 (S0Hd)											
		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			
Surrogate: 4-Bromochlorobenzene-PID		104 %	50-1.	50	2009035	02/28/20	02/28/20	EPA 8021B			
Nonhalogenated Organics by 8015 - DRO/O	RO										
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009034	02/28/20	02/28/20	EPA 8015D			
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009034	02/28/20	02/28/20	EPA 8015D			
Surrogate: n-Nonane		90.7 %	50-2	00	2009034	02/28/20	02/28/20	EPA 8015D			
Nonhalogenated Organics by 8015 - GRO											
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8015D			
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.6 %	50-1.	50	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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Project Name:

State LA

4001 Penbrook Suite 201 Odessa TX, 79762

Project Number: 19054-0003 Project Manager: Natalie Gladden

Reported: 03/02/20 14:21

SW3 P002097-05 (Solid)

P002097-03 (S0Hd)											
		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			
Surrogate: 4-Bromochlorobenzene-PID		105 %	50-15	0	2009035	02/28/20	02/28/20	EPA 8021B			
Nonhalogenated Organics by 8015 - DRO/Ol	RO										
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1		2009034	02/28/20	02/28/20	EPA 8015D			
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1		2009034	02/28/20	02/28/20	EPA 8015D			
Surrogate: n-Nonane		79.5 %	50-20	0	2009034	02/28/20	02/28/20	EPA 8015D			
Nonhalogenated Organics by 8015 - GRO											
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1		2009035	02/28/20	02/28/20	EPA 8015D			
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.6 %	50-15	0	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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Project Name:

State LA

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

SW4

P002097-06 (Solid)

	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					
Surrogate: 4-Bromochlorobenzene-PID		104 %	50-1	50	2009035	02/28/20	02/28/20	EPA 8021B					
Nonhalogenated Organics by 8015 - DRO/Ol	RO												
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009034	02/28/20	02/28/20	EPA 8015D					
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009034	02/28/20	02/28/20	EPA 8015D					
Surrogate: n-Nonane		79.7 %	50-2	00	2009034	02/28/20	02/28/20	EPA 8015D					
Nonhalogenated Organics by 8015 - GRO													
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8015D					
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.6 %	50-1	50	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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Project Name:

State LA

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

SW5 P002097-07 (Solid)

		Reporting	27 07 (50						
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	
Surrogate: 4-Bromochlorobenzene-PID		93.6 %	50-	150	2009035	02/28/20	02/28/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009034	02/28/20	02/28/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009034	02/28/20	02/28/20	EPA 8015D	
Surrogate: n-Nonane		82.9 %	50	200	2009034	02/28/20	02/28/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.1 %	50-	150	2009035	02/28/20	02/28/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	386	40.0	mg/kg	2	2009037	02/28/20	02/28/20	EPA 300.0/9056A	

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Grizzly Energy 4001 Penbrook Suite 201

Odessa TX, 79762

Project Name:

State LA

Project Number: Project Manager: 19054-0003 Natalie Gladden Reported:

03/02/20 14:21

SW6 P002097-08 (Solid)

	1 00207/-00 (30110)											
		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				
Surrogate: 4-Bromochlorobenzene-PID		99.8 %	50-	-150	2009035	02/28/20	02/28/20	EPA 8021B				
Nonhalogenated Organics by 8015 - DRO/ORO)											
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2009034	02/28/20	02/28/20	EPA 8015D				
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2009034	02/28/20	02/28/20	EPA 8015D				
Surrogate: n-Nonane		104 %	50-	-200	2009034	02/28/20	02/28/20	EPA 8015D				
Nonhalogenated Organics by 8015 - GRO												
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009035	02/28/20	02/28/20	EPA 8015D				
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.6 %	50-	-150	2009035	02/28/20	02/28/20	EPA 8015D				
Anions by 300.0/9056A												
Chloride	50.3	20.0	mg/kg	1	2009037	02/28/20	02/28/20	EPA 300.0/9056A				

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5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Project Name:

State LA

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

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2009035 - Purge and Trap EPA 5030A										
Blank (2009035-BLK1)				Prepared &	Analyzed:	02/28/20 1				
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	8.40		"	8.00		105	50-150			
LCS (2009035-BS1)				Prepared &	Analyzed:	02/28/20 1				
Benzene	4.96	0.0250	mg/kg	5.00		99.1	70-130			
Toluene	4.97	0.0250	"	5.00		99.4	70-130			
Ethylbenzene	4.97	0.0250	"	5.00		99.3	70-130			
o,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)	Sour	ce: 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)	Sour	ce: 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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Project Name:

State LA

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

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2009034 - DRO Extraction EPA 3570										
Blank (2009034-BLK1)				Prepared &	k 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 &	k 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)	Sou	rce: P002097-	01	Prepared: (02/28/20 1	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)	Sou	rce: 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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5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Project Name:

Reporting

State LA

Spike

Source

%REC

4001 Penbrook Suite 201 Odessa TX, 79762

Project Number: 19054-0003 Project Manager: Natalie Gladden

Reported: 03/02/20 14:21

RPD

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2009035 - Purge and Trap EPA 5030A										
Blank (2009035-BLK1)				Prepared &	Analyzed:	02/28/20 1				
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.53		"	8.00		94.1	50-150			
LCS (2009035-BS2)				Prepared &	Analyzed:	02/28/20 1				
Gasoline Range Organics (C6-C10)	47.6	20.0	mg/kg	50.0		95.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.58		"	8.00		94.8	50-150			
Matrix Spike (2009035-MS2)	Sourc	e: 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)	Sourc	e: 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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Project Name:

Reporting

State LA

Spike

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

RPD

%REC

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2009037 - Anion Extraction EPA 300.0/	9056A									
Blank (2009037-BLK1)				Prepared &	Analyzed:	02/28/20 1				
Chloride	ND	20.0	mg/kg							
LCS (2009037-BS1)				Prepared &	Analyzed:	02/28/20 1				
Chloride	247	20.0	mg/kg	250		98.9	90-110			
Matrix Spike (2009037-MS1)	Source	e: 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	e: P002097-	01	Prepared &	Analyzed:	02/28/20 1				
Chloride	441	20.0	mg/kg	250	194	98.9	80-120	1.48	20	

QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

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Grizzly Energy Project Name: State LA

4001 Penbrook Suite 201Project Number:19054-0003Reported:Odessa TX, 79762Project Manager:Natalie Gladden03/02/20 14:21

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Ph (505) 632-0615 Fx (505) 632-1865

Labadmin@envirotech-inc.com

envirotech-inc.com

Client Crizzly	Bill To				La	ab Us	se On	ly			ГАТ		EPA Progra	am
Project: State LA	Attention: Watau Gladder	1		WO#			Job	Num	ber	1D	3D	RCRA	CWA	SDWA
Project Manager:	Address:		Po	02	04	<i>f</i>			1-000					
Address:	City, State, Zip						Analy	/sis a	nd Meth	od	_			ate
City, State, Zip	Phone:	-											NM CO	UT AZ
Phone:	Email: Na addle hungy	- hors	OFF	015					1 1			1 1		
Email:	,		by 8	by 8	171	90	0	0.00		Σ		1 1	TX OK	
Report due by:		_	ORO	RO	y 80	/ 82	601	le 3(2	×	1 1		
Time Date Sampled Matrix No Containers Sample ID		Lab Number	DRO/ORO by 80 IS	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC - NM	BGDOC		Ren	narks
9:23 2/20/20 5 1 COMPOSH	e mix 1	1								1	P			
9:59 2/26/20 / Conjoursit	pnix 2	2								1				
10:21 1/2u/2 SINI		3								0	P			
10:38 /210/m SN2		4								0				
10:49 /26/20 (SW3		5								Y				
10:57 /26/2 5 SW4		6								X				
11:11 % ab/20 SW5		7								K				
11:20 /26/2 SWL		8								1	1			
										V				
Additional Instructions:											-			
, (field sampler), attest to the validity and authenticity of this sample. I am awar time of collection is considered fraud and may be grounds for legal action. Samp	(ation, date or					141,142,141						he day they are sai in subsequent days	-30.24
Relinquished by: (Signature)	Received by Signature)	Date 27	190	Time	8,0	0	Rece	eived	on ice:		ab U	se Only		
Relinquished by: (Signature) Date 2 27/20 12	Received by: (Signature)	2-27-2	2020	Time	24	9	T1			<u>T2</u>			<u>T3</u>	
Relinquished by: (Signature) Date Time Z · 28 · 20 /	Received by: (Signature)	Date 2/28/2	-	Time	143	_	AVG	Tem	np °C	4				
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other_		Container	Туре	: g - g	lass,						iss, v -	VOA		
Note: Samples are discarded 30 days after results are reported unless of		returned to cli											ove samples i	s applicable





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

Sample Summary

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FL1	P008035-01A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL2	P008035-02A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL3	P008035-03A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL4	P008035-04A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL5	P008035-05A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL6	P008035-06A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL7	P008035-07A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL8	P008035-08A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL9	P008035-09A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL10	P008035-10A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL11	P008035-11A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL12	P008035-12A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL13	P008035-13A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL14	P008035-14A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL15	P008035-15A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL16	P008035-16A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL17	P008035-17A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL18	P008035-18A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL19	P008035-19A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL20	P008035-20A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.
FL21	P008035-21A	Soil	08/03/20	08/13/20	Glass Jar, 4 oz.



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

FL1 P008035-01 (Solid)

	1	000055-01 (5011	u)				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Analyte	Result	Liiiit	Ditation	Trepared	Anaryzeu	Trotes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2033035
Benzene	ND	0.0250	1	08/14/20	08/14/20		
Toluene	ND	0.0250	1	08/14/20	08/14/20		
Ethylbenzene	ND	0.0250	1	08/14/20	08/14/20		
p,m-Xylene	ND	0.0500	1	08/14/20	08/14/20		
o-Xylene	ND	0.0250	1	08/14/20	08/14/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/14/20		
Surrogate: 4-Bromochlorobenzene-PID		90.7 %	50-150	08/14/20	08/14/20		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/14/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.7 %	50-150	08/14/20	08/14/20		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033036
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/15/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/15/20		
Surrogate: n-Nonane		110 %	50-200	08/14/20	08/15/20		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	225	20.0	1	08/14/20	08/14/20		

8



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

FL2 P008035-02 (Solid)

		`					
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2033035
Benzene	ND	0.0250	1	08/14/20	08/14/20		
Toluene	ND	0.0250	1	08/14/20	08/14/20		
Ethylbenzene	ND	0.0250	1	08/14/20	08/14/20		
p,m-Xylene	ND	0.0500	1	08/14/20	08/14/20		
o-Xylene	ND	0.0250	1	08/14/20	08/14/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/14/20		
Surrogate: 4-Bromochlorobenzene-PID		97.9 %	50-150	08/14/20	08/14/20		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/14/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.9 %	50-150	08/14/20	08/14/20		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033036
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/15/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/15/20		
Surrogate: n-Nonane		106 %	50-200	08/14/20	08/15/20		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	258	20.0	1	08/14/20	08/14/20		



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

FL3 P008035-03 (Solid)

			<u>, </u>				
		Reporting					
Analyte	Result	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		
Coluene	ND	0.0250	1	08/14/20	08/14/20		
thylbenzene	ND	0.0250	1	08/14/20	08/14/20		
,m-Xylene	ND	0.0500	1	08/14/20	08/14/20		
-Xylene	ND	0.0250	1	08/14/20	08/14/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/14/20		
urrogate: 4-Bromochlorobenzene-PID		97.4 %	50-150	08/14/20	08/14/20		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/14/20		
urrogate: 1-Chloro-4-fluorobenzene-FID		92.2 %	50-150	08/14/20	08/14/20		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033036
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/15/20		
Dil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/15/20		
urrogate: n-Nonane		110 %	50-200	08/14/20	08/15/20		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	233	20.0	1	08/14/20	08/14/20		



Grizzly Energy 4001 Penbrook Suite 201 Odessa TX, 79762

Project Name: Project Number:

Project Manager:

State LA

19054-0002

Reported: 08/19/20 15:04 Daniel Dominguez

FL4 P008035-04 (Solid)

		1000) FO CC0000	/				
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2033035
Benzene	ND	0.0250	1	08/14/20	08/14/20		
Toluene	ND	0.0250	1	08/14/20	08/14/20		
Ethylbenzene	ND	0.0250	1	08/14/20	08/14/20		
p,m-Xylene	ND	0.0500	1	08/14/20	08/14/20		
o-Xylene	ND	0.0250	1	08/14/20	08/14/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/14/20		
Surrogate: 4-Bromochlorobenzene-PID		97.2 %	50-150	08/14/20	08/14/20		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/14/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.0 %	50-150	08/14/20	08/14/20		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033036
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/15/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/15/20		
Surrogate: n-Nonane		108 %	50-200	08/14/20	08/15/20		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	266	20.0	1	08/14/20	08/14/20		

FL5 P008035-05 (Solid)

		Reporting					
Analyte	Result	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		
o,m-Xylene	ND	0.0500	1	08/14/20	08/14/20		
p-Xylene	ND	0.0250	1	08/14/20	08/14/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/14/20		
Surrogate: 4-Bromochlorobenzene-PID		98.0 %	50-150	08/14/20	08/14/20		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/14/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.3 %	50-150	08/14/20	08/14/20		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033036
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/15/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/15/20		
Surrogate: n-Nonane		112 %	50-200	08/14/20	08/15/20		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	224	20.0	1	08/14/20	08/14/20		

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

FL6 P008035-06 (Solid)

		`					
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2033035
Benzene	ND	0.0250	1	08/14/20	08/14/20		
Toluene	ND	0.0250	1	08/14/20	08/14/20		
Ethylbenzene	ND	0.0250	1	08/14/20	08/14/20		
p,m-Xylene	ND	0.0500	1	08/14/20	08/14/20		
o-Xylene	ND	0.0250	1	08/14/20	08/14/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/14/20		
Surrogate: 4-Bromochlorobenzene-PID		98.0 %	50-150	08/14/20	08/14/20		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/14/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.0 %	50-150	08/14/20	08/14/20		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033036
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/15/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/15/20		
Surrogate: n-Nonane		110 %	50-200	08/14/20	08/15/20		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	225	20.0	1	08/14/20	08/14/20		



FL7 P008035-07 (Solid)

		00005 07 (501	<i>u,</i>				
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2033035
Benzene	ND	0.0250	1	08/14/20	08/14/20		
Toluene	ND	0.0250	1	08/14/20	08/14/20		
Ethylbenzene	ND	0.0250	1	08/14/20	08/14/20		
p,m-Xylene	ND	0.0500	1	08/14/20	08/14/20		
o-Xylene	ND	0.0250	1	08/14/20	08/14/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/14/20		
Surrogate: 4-Bromochlorobenzene-PID		97.2 %	50-150	08/14/20	08/14/20		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/14/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.9 %	50-150	08/14/20	08/14/20		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033036
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/15/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/15/20		
Surrogate: n-Nonane		113 %	50-200	08/14/20	08/15/20		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	228	20.0	1	08/14/20	08/14/20		

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

FL8 P008035-08 (Solid)

		000000000000000000000000000000000000000	",				
		Reporting					
Analyte	Result	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		
o,m-Xylene	ND	0.0500	1	08/14/20	08/15/20		
o-Xylene	ND	0.0250	1	08/14/20	08/15/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/15/20		
Surrogate: 4-Bromochlorobenzene-PID		98.5 %	50-150	08/14/20	08/15/20		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/15/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.6 %	50-150	08/14/20	08/15/20		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033036
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/15/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/15/20		
Surrogate: n-Nonane		108 %	50-200	08/14/20	08/15/20		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	230	20.0	1	08/14/20	08/14/20		

Analytical Laboratory

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

FL9 P008035-09 (Solid)

		Reporting					
Analyte	Result	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		
o,m-Xylene	ND	0.0500	1	08/14/20	08/15/20		
o-Xylene	ND	0.0250	1	08/14/20	08/15/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/15/20		
Surrogate: 4-Bromochlorobenzene-PID		97.8 %	50-150	08/14/20	08/15/20		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/15/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.0 %	50-150	08/14/20	08/15/20		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033036
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/15/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/15/20		
Surrogate: n-Nonane		107 %	50-200	08/14/20	08/15/20		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	268	20.0	1	08/14/20	08/14/20		

FL10 P008035-10 (Solid)

		000000 10 (801	",				
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2033035
Benzene	ND	0.0250	1	08/14/20	08/15/20		
Toluene	ND	0.0250	1	08/14/20	08/15/20		
Ethylbenzene	ND	0.0250	1	08/14/20	08/15/20		
p,m-Xylene	ND	0.0500	1	08/14/20	08/15/20		
o-Xylene	ND	0.0250	1	08/14/20	08/15/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/15/20		
Surrogate: 4-Bromochlorobenzene-PID		98.8 %	50-150	08/14/20	08/15/20		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/15/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.5 %	50-150	08/14/20	08/15/20		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033036
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/15/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/15/20		
Surrogate: n-Nonane		110 %	50-200	08/14/20	08/15/20		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	258	20.0	1	08/14/20	08/14/20		

FL11 P008035-11 (Solid)

		`					
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2033035
Benzene	ND	0.0250	1	08/14/20	08/15/20		
Toluene	ND	0.0250	1	08/14/20	08/15/20		
Ethylbenzene	ND	0.0250	1	08/14/20	08/15/20		
p,m-Xylene	ND	0.0500	1	08/14/20	08/15/20		
o-Xylene	ND	0.0250	1	08/14/20	08/15/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/15/20		
Surrogate: 4-Bromochlorobenzene-PID		99.0 %	50-150	08/14/20	08/15/20		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/15/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.1 %	50-150	08/14/20	08/15/20		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033036
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/15/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/15/20		
Surrogate: n-Nonane		112 %	50-200	08/14/20	08/15/20		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	222	20.0	1	08/14/20	08/14/20		

FL12 P008035-12 (Solid)

		000055 12 (501	u)				
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2033035
Benzene	ND	0.0250	1	08/14/20	08/15/20		
Toluene	ND	0.0250	1	08/14/20	08/15/20		
Ethylbenzene	ND	0.0250	1	08/14/20	08/15/20		
p,m-Xylene	ND	0.0500	1	08/14/20	08/15/20		
o-Xylene	ND	0.0250	1	08/14/20	08/15/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/15/20		
Surrogate: 4-Bromochlorobenzene-PID		97.7 %	50-150	08/14/20	08/15/20		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/15/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.3 %	50-150	08/14/20	08/15/20		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033032
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/14/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/14/20		
Surrogate: n-Nonane		92.6 %	50-200	08/14/20	08/14/20		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	251	20.0	1	08/14/20	08/14/20		



FL13 P008035-13 (Solid)

		00005 15 (500	<i>u,</i>				
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2033035
Benzene	ND	0.0250	1	08/14/20	08/15/20		
Toluene	ND	0.0250	1	08/14/20	08/15/20		
Ethylbenzene	ND	0.0250	1	08/14/20	08/15/20		
p,m-Xylene	ND	0.0500	1	08/14/20	08/15/20		
o-Xylene	ND	0.0250	1	08/14/20	08/15/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/15/20		
Surrogate: 4-Bromochlorobenzene-PID		99.0 %	50-150	08/14/20	08/15/20		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/15/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.9 %	50-150	08/14/20	08/15/20		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033032
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/14/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/14/20		
Surrogate: n-Nonane		97.4 %	50-200	08/14/20	08/14/20		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	273	20.0	1	08/14/20	08/14/20		



FL14 P008035-14 (Solid)

	P	008035-14 (5011	u)				
		Reporting					
Analyte	Result	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		
o,m-Xylene	ND	0.0500	1	08/14/20	08/15/20		
p-Xylene	ND	0.0250	1	08/14/20	08/15/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/15/20		
Surrogate: 4-Bromochlorobenzene-PID		99.5 %	50-150	08/14/20	08/15/20		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/15/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.6 %	50-150	08/14/20	08/15/20		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033032
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/14/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/14/20		
Surrogate: n-Nonane		100 %	50-200	08/14/20	08/14/20		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	240	20.0	1	08/14/20	08/14/20		

FL15 P008035-15 (Solid)

		000000 10 (8011	",				
		Reporting					
Analyte	Result	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		
o,m-Xylene	ND	0.0500	1	08/14/20	08/15/20		
o-Xylene	ND	0.0250	1	08/14/20	08/15/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/15/20		
Surrogate: 4-Bromochlorobenzene-PID		100 %	50-150	08/14/20	08/15/20		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/15/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.8 %	50-150	08/14/20	08/15/20		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033032
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/14/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/14/20		
Surrogate: n-Nonane		101 %	50-200	08/14/20	08/14/20		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	263	20.0	1	08/14/20	08/14/20		



FL16 P008035-16 (Solid)

		000000 10 (801	",				
		Reporting					
Analyte	Result	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		
o,m-Xylene	ND	0.0500	1	08/14/20	08/15/20		
o-Xylene	ND	0.0250	1	08/14/20	08/15/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/15/20		
Surrogate: 4-Bromochlorobenzene-PID		101 %	50-150	08/14/20	08/15/20		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/15/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.2 %	50-150	08/14/20	08/15/20		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033032
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/14/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/14/20		
Surrogate: n-Nonane		98.9 %	50-200	08/14/20	08/14/20		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	220	20.0	1	08/14/20	08/15/20		



FL17 P008035-17 (Solid)

		000033-17 (3011	<u> </u>				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg		· · · · · · · · · · · · · · · · · · ·		Batch:	2033035
Benzene	ND	0.0250	1	08/14/20	08/15/20		
Toluene	ND	0.0250	1	08/14/20	08/15/20		
Ethylbenzene	ND	0.0250	1	08/14/20	08/15/20		
p,m-Xylene	ND	0.0500	1	08/14/20	08/15/20		
o-Xylene	ND	0.0250	1	08/14/20	08/15/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/15/20		
Surrogate: 4-Bromochlorobenzene-PID		99.7 %	50-150	08/14/20	08/15/20		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/15/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.7 %	50-150	08/14/20	08/15/20		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033032
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/14/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/14/20		
Surrogate: n-Nonane		100 %	50-200	08/14/20	08/14/20		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	277	20.0	1	08/14/20	08/15/20		

FL18 P008035-18 (Solid)

		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2033035
Benzene	ND	0.0250	1	08/14/20	08/15/20		
Toluene	ND	0.0250	1	08/14/20	08/15/20		
Ethylbenzene	ND	0.0250	1	08/14/20	08/15/20		
p,m-Xylene	ND	0.0500	1	08/14/20	08/15/20		
o-Xylene	ND	0.0250	1	08/14/20	08/15/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/15/20		
Surrogate: 4-Bromochlorobenzene-PID		99.2 %	50-150	08/14/20	08/15/20		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/15/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.9 %	50-150	08/14/20	08/15/20		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033032
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/14/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/14/20		
Surrogate: n-Nonane		102 %	50-200	08/14/20	08/14/20		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	275	20.0	1	08/14/20	08/15/20		

FL19 P008035-19 (Solid)

		000000 17 (5000	<i>u,</i>				
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2033035
Benzene	ND	0.0250	1	08/14/20	08/15/20		
Toluene	ND	0.0250	1	08/14/20	08/15/20		
Ethylbenzene	ND	0.0250	1	08/14/20	08/15/20		
p,m-Xylene	ND	0.0500	1	08/14/20	08/15/20		
o-Xylene	ND	0.0250	1	08/14/20	08/15/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/15/20		
Surrogate: 4-Bromochlorobenzene-PID		98.9 %	50-150	08/14/20	08/15/20		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/15/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.6 %	50-150	08/14/20	08/15/20		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033032
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/14/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/14/20		
Surrogate: n-Nonane		102 %	50-200	08/14/20	08/14/20		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	269	20.0	1	08/14/20	08/15/20		

FL20 P008035-20 (Solid)

		000000 20 (8011	",				
		Reporting					
Analyte	Result	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		
o,m-Xylene	ND	0.0500	1	08/14/20	08/15/20		
o-Xylene	ND	0.0250	1	08/14/20	08/15/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/15/20		
Surrogate: 4-Bromochlorobenzene-PID		100 %	50-150	08/14/20	08/15/20		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033035
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/15/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.1 %	50-150	08/14/20	08/15/20		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033032
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/14/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/14/20		
Surrogate: n-Nonane		104 %	50-200	08/14/20	08/14/20		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033040
Chloride	209	20.0	1	08/14/20	08/15/20		

FL21 P008035-21 (Solid)

		Reporting					
Analyte	Result	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		
o,m-Xylene	ND	0.0500	1	08/14/20	08/15/20		
o-Xylene	ND	0.0250	1	08/14/20	08/15/20		
Total Xylenes	ND	0.0250	1	08/14/20	08/15/20		
Surrogate: 4-Bromochlorobenzene-PID		99.5 %	50-150	08/14/20	08/15/20		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2033042
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/14/20	08/15/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.9 %	50-150	08/14/20	08/15/20		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2033032
Diesel Range Organics (C10-C28)	ND	25.0	1	08/14/20	08/14/20		
Oil Range Organics (C28-C40)	ND	50.0	1	08/14/20	08/14/20		
Surrogate: n-Nonane		106 %	50-200	08/14/20	08/14/20		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2033045
Chloride	233	20.0	1	08/14/20	08/17/20		

Surrogate: 4-Bromochlorobenzene-PID

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

Odessa TX, 79762		Project Manage	er: D	aniel Domin	guez				08/19/20 15:04
	Volat	tile Organics	by EPA 80)21B - Qu	ality Cor	itrol			
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			
o,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: P	008035-01	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			
o,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: P	008035-01	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	

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Odessa TX, 79762		Project Manage	er: D	Daniel Domin	nguez				08/19/20 15:04
	Volat	tile Organics	by EPA 80	021B - Qu	ıality Cor	itrol			
		Reporting	Spike	Source		REC		RPD	
Analyte	Result	Limit	Level	Result	REC	Limits	RPD	Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2033042-BLK1)							Prepared	: 08/14/20 1	Analyzed: 08/17/20
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
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: P	008045-01	Prepared	: 08/14/20 1	Analyzed: 08/17/20
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: P	008045-01	Prepared	: 08/14/20 1	Analyzed: 08/17/20
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			



Nonhalogenated Organics by EPA 8015D - GRO - Quality Control

	Tionnaiogena				ito Qui	inty Cont			
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 A	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: P	008035-01	Prepared	: 08/14/20 0 A	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: P	008035-01	Prepared	: 08/14/20 0 A	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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Nonhalogenated Organics by EPA 8015D - GRO - Quality Control

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Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
						Prepared	: 08/14/20 1	Analyzed: 08/17/20 1
ND	20.0							
7.30		8.00		91.3	50-150			
						Prepared	: 08/14/20 1	Analyzed: 08/17/20 1
53.0	20.0	50.0		106	70-130			
7.35		8.00		91.8	50-150			
				Source: P	008045-01	Prepared	: 08/14/20 1	Analyzed: 08/17/20 1
54.1	20.0	50.0	ND	108	70-130			
7.22		8.00		90.2	50-150			
				Source: P	008045-01	Prepared	: 08/14/20 1	Analyzed: 08/17/20 2
54.3	20.0	50.0	ND	109	70-130	0.319	20	
7.20		8.00		90.1	50-150			
	Result mg/kg ND 7.30 53.0 7.35 54.1 7.22	Result Limit mg/kg mg/kg ND 20.0 7.30 53.0 20.0 7.35 54.1 20.0 7.22 54.3 20.0	Result mg/kg Reporting Limit Level mg/kg Spike Level mg/kg ND 20.0 8.00 53.0 20.0 50.0 7.35 8.00 54.1 20.0 50.0 7.22 8.00 54.3 20.0 50.0 50.0 50.0 50.0	Result mg/kg Reporting Limit Level mg/kg Spike Level Result mg/kg Source Result mg/kg ND 20.0 8.00 53.0 20.0 50.0 7.35 8.00 54.1 20.0 50.0 ND 7.22 8.00 54.3 20.0 50.0 ND	Result mg/kg Reporting Limit Level mg/kg Spike Result REC mg/kg Source mg/kg Result mg/kg REC mg/kg REC mg/kg Result mg/kg REC mg/kg Result mg/kg <td>Result mg/kg Reporting Limit Level mg/kg Spike Result REC Limits mg/kg Result mg/kg REC Limits mg/kg ND 20.0 8.00 91.3 50-150 53.0 20.0 50.0 106 70-130 7.35 8.00 91.8 50-150 Source: P008045-01 54.1 20.0 50.0 ND 108 70-130 7.22 8.00 90.2 50-150 Source: P008045-01 54.3 20.0 50.0 ND 109 70-130</td> <td>Result mg/kg Reporting Limit Level mg/kg Spike Result REC Limits RPD REC Limits RPD ND 20.0 7.30 8.00 91.3 50-150 Prepared 53.0 20.0 50.0 106 70-130 7.35 8.00 91.8 50-150 Source: P008045-01 Prepared 54.1 20.0 50.0 ND 108 70-130 7.22 8.00 90.2 50-150 Source: P008045-01 Prepared 54.3 20.0 50.0 ND 109 70-130 0.319</td> <td>Result mg/kg Reporting Limit Level Prepared: Spike Result REC Result REC Limits RPD Limit RPD Limit RPD Result REC RPD Result REC Limits RPD RPD Result REC RPD Result REC Limits RPD Limit RPD Result REC RPD Result REC Limits RPD Limit RPD Result REC RPD RESULT RESULT</td>	Result mg/kg Reporting Limit Level mg/kg Spike Result REC Limits mg/kg Result mg/kg REC Limits mg/kg ND 20.0 8.00 91.3 50-150 53.0 20.0 50.0 106 70-130 7.35 8.00 91.8 50-150 Source: P008045-01 54.1 20.0 50.0 ND 108 70-130 7.22 8.00 90.2 50-150 Source: P008045-01 54.3 20.0 50.0 ND 109 70-130	Result mg/kg Reporting Limit Level mg/kg Spike Result REC Limits RPD REC Limits RPD ND 20.0 7.30 8.00 91.3 50-150 Prepared 53.0 20.0 50.0 106 70-130 7.35 8.00 91.8 50-150 Source: P008045-01 Prepared 54.1 20.0 50.0 ND 108 70-130 7.22 8.00 90.2 50-150 Source: P008045-01 Prepared 54.3 20.0 50.0 ND 109 70-130 0.319	Result mg/kg Reporting Limit Level Prepared: Spike Result REC Result REC Limits RPD Limit RPD Limit RPD Result REC RPD Result REC Limits RPD RPD Result REC RPD Result REC Limits RPD Limit RPD Result REC RPD Result REC Limits RPD Limit RPD Result REC RPD RESULT

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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 2	Analyzed: 08/14/20 1
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C40)	ND	50.0							
Surrogate: n-Nonane	52.4		50.0		105	50-200			
LCS (2033032-BS1)							Prepared	: 08/14/20 0 2	Analyzed: 08/14/20 1
Diesel Range Organics (C10-C28)	481	25.0	500		96.2	38-132			
Surrogate: n-Nonane	51.2		50.0		102	50-200			
Matrix Spike (2033032-MS1)					Source: Po	008041-01	Prepared	: 08/14/20 0 2	Analyzed: 08/14/20 1
Diesel Range Organics (C10-C28)	498	25.0	500	ND	99.6	38-132			
Surrogate: n-Nonane	46.7		50.0		93.4	50-200			
Matrix Spike Dup (2033032-MSD1)					Source: Po	008041-01	Prepared	: 08/14/20 0	Analyzed: 08/14/20 1
Diesel Range Organics (C10-C28)	499	25.0	500	ND	99.8	38-132	0.184	20	
Surrogate: n-Nonane	46.4		50.0		92.8	50-200			



Nonhalogenated Organics by EPA 8015D - DRO/ORO - Quality Control

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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	1: 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	1: 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	1: 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	1: 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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Anions by EPA 300.0/9056A - Quality Control

		Reporting	Spike	Source		REC		RPD					
Analyte	Result	Limit	Level	Result	REC	Limits	RPD	Limit	Notes				
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%					
Blank (2033040-BLK1)						Prepared & Analyzed: 08/14/20 1							
Chloride	ND	20.0											
LCS (2033040-BS1)							Prepared	l & Analyzed:	08/14/20 1				
Chloride	260	20.0	250		104	90-110							
Matrix Spike (2033040-MS1)					Source: P	008035-01	Prepared	l & Analyzed:	08/14/20 1				
Chloride	502	20.0	250	225	111	80-120							
Matrix Spike Dup (2033040-MSD1)					Source: P	008035-01	Prepared	l & Analyzed:	08/14/20 1				
Chloride	432	20.0	250	225	82.8	80-120	15.1	20					

Anions by	EPA 300.0/9056A - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes						
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%							
Blank (2033045-BLK1)							Prepared: 08/14/20 1 Analyzed: 08/17/20 1								
Chloride	ND	20.0													
LCS (2033045-BS1)							Prepared	: 08/14/20 1	Analyzed: 08/17/20 1						
Chloride	253	20.0	250		101	90-110									
Matrix Spike (2033045-MS1)					Source: Po	008045-01	Prepared	: 08/14/20 1	Analyzed: 08/17/20 1						
Chloride	294	20.0	250	39.0	102	80-120									
Matrix Spike Dup (2033045-MSD1)					Source: Po	008045-01	Prepared	Analyzed: 08/17/20 1							
Chloride	294	20.0	250	39.0	102	80-120	0.116	20							

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

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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: (91)	1			Lab Use Only TAT EPA Pro									PA Prog	ram		
Project: State Project Manager: Tani	LA DOMINAR	Attention: - Paid -		Lab	#0W	~	35	Job I	Vum	-0006	1D	3D	RCRA	CWA		DWA
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Phone:		Email:		10										NM C	0 0 1	T AZ
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Sample Matrix: S - Soil, Sd - Solid, Sg	- Sludge, A - Aqueous, O - Other		Container	Type	g - a	asc r							/OA			
		other arrangements are made. Hazardous samples w	vill be returned to clie	ent or o	dispose	d of at	the cl	ient ex	pense.	The report	for the	analysi	s of the abo	ve samnles	is annli	cable
only to those samples received by the	e laboratory with this COC. The li	ability of the laboratory is limited to the amount paid	d for on the report.					2,13, 40		report	. J. Liic	y31	. or the abo	- Countries	.appli	Laute
() and		The state of the s											-	stock inn a		



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

Client 9 Y 1 Z Z L	Bill To		Lab Use Only						T	AT	E	PA Progra	A Program		
Project: State JUA	Attention:		Lab	WO#			Job I	Num	ber	1D	3D	RCRA	CWA	SDWA	
Project Manager: Daniel Domingue	Address:		PC	WO#	30	5	1190	121	-0007						
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Report due by:			0 p	Op	802	8260	0100	300		Z	×		TENVE		
Time Date No Sample ID		Lab	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	als	Chloride 300.0		00	- 20		-		
Sampled Sampled Matrix Containers Sample ID		Number	DRC	GRC	BTE	000	Metals 6010	Chlo		BGDOC - NM	BGDOC-		Rer	marks	
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Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other		Container	Type	: g - g	lass.					er gla	S. V -	VOA			
Note: Samples are discarded 30 days after results are reported unless other	er arrangements are made. Hazardous samples will b												ve samples i	s applicable	
only to those samples received by the laboratory with this COC. The liabi															



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Client: 71724	Bill To				La	b Us	se On	ly		T	AT	E	EPA Program		
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Time 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 -		Ren	marks	
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Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other		Container	Type	9-0	acc i	n - no	ly/nla	ctic	ag - amh	or ala	c 11 1	101			

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Attachment V NMOCD Form C-141 Remediation and Closure Pages

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☐ Laboratory data including chain of custody

Incident ID nCH1828533458
District RP
Facility ID
Application ID

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	51'-100' (ft bgs)										
Did this release impact groundwater or surface water?	☐ Yes ⊠ No										
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?											
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?											
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No										
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No										
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No										
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No										
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No										
Are the lateral extents of the release overlying a subsurface mine?											
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No										
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No										
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No										
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil										
Characterization Report Checklist: Each of the following items must be included in the report.											
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											

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

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District RP		
Facility ID		
Application ID		

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

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Incident ID	nCH1828533458
District RP	
Facility ID	
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Remediation 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.				
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of aws and/or regulations. Title: Senior EHS Specialist			
OCD Only				
Received by:	Date:			
☐ Approved ☐ Approved with Attached Conditions of	Approval			
Signature:	Date:			

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Incident ID	nCH1828533458
District RP	
Facility ID	
Application ID	

Closure

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

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

A scaled site and sampling diagram as described in 19.15.29.11 NMAC		
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)		
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)		
Description of remediation activities		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Carmen E Pitt Title: Senior EHS SPecialist Date: 9/14/2020		
email: cpitt@grizzlyenergyllc.com	Telephone: 432-248-8145	
OCD Only		
Received by:	Date:	
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.		
Closure Approved by:	Date:	
Printed Name:	Title:	