

QIL78-200317-C-1410



Lupe Carrillo

Morris Boyd 26 Fee Com 1H Closure Plan

API NO. 30-015-38962

2RP-5353

Release Date: 3/27/2019

U/L I, Section 26, Township 19S, Range 25E

Eddy County

8/19/2019

Prepared By:

Hungry Horse, LLC

4024 Plains Hwy

Lovington NM 88260

Phone: (575)390-6387



August 19, 2019

New Mexico Energy, Minerals & Natural Resources NMOCD District II C/O Mike Bratcher, Robert Hamlet & Victoria Venegas 811 S. First Street Artesia, NM 88210

Percussion Petroleum, LLC C/O Lupe Carrillo/Jerry Mathews 919 Milam Street, Suite 2475 Houston, TX 77002

Subject: Closure Request for Percussion Petroleum - Morris Boyd 26 Fee Com 1H

To Whom it May Concern,

On behalf of Percussion Petroleum, Hungry Horse, LLC has prepared this CLOSURE REPORT that describes the assessment, delineation and remediation for the release associated with the Morris Boyd 26 Fee Com 1H dated 3/27/19 with the RP# 2RP-5353.

Background

The site is located in Eddy County, New Mexico. The release was located on March 27,2019. The spill was due to a leak in one of our SWD lines going to a company operated SWD well. The spill was north of our Morris Boyd #1H location (listed closest well for site name). The spill was estimated to be 25bbls and was mostly dried up when it was discovered. We repaired the line and put it back in service. The corresponding C141 for the release is attached.

Ground Water Information

Hungry Horse, LLC has conducted a ground water study of this area. It has been determined that according to the New Mexico Office of the State Engineer, the average depth of ground water is 60'bgs (below ground surface). The top three closest wells to the site area listed below:

RA 10496 – shows the well is set at 110'bgs, with a ground water depth of 40'bgs and 1269' from the site. RA 10155 – shows the well is set at 225'bgs, with a ground water depth of 60'bgs and 1457' from the site. RA 07026 – shows the well is set at 135'bgs, with a ground water depth of 105'bgs and 2109' from the site.



The Average Depth to GW is 60bgs, minimum depth is 40'bgs and the maximum depth is 105'bgs. The old Chevron Map shows the site to be 100'bgs.

Closure Criteria for Soils Impacted by a Release

DGW	Constituent	Method	Limit
51'-100'	Chloride	EPA 300.0 OR SM4500 CLB	10,000 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 METHOD 8015M	2,500 mg/kg
	GRO + DRO	EPA SW-846 METHOD 8015M	1,000 mg/kg
	BTEX	EPA SW-846 METHOD 8021B OR 8260B	50 mg/kg
	Benzene	EPA SW-846 METHOD 8021B OR 8260B	10 mg/kg

The Closure Criteria for Soils Impacted by Release above, based on ground water depth of 60'bgs, which falls under the 51'-100' depth category. Therefore, the site was delineated according to the above closure criteria.

Karst Mapping

The Karst Mapping Data found for this site is located inside the low marked area in blue. When the site was delineated, it was fully delineated to meet the NMOCD standards for Karst areas. Please see the Karst Map that is attached herein.

Site Delineation and Remediation

Hungry Horse, LLC fully delineated the site vertically and horizontally starting on April 16, 2019. The site was assessed, measured and photographed. After the one-call was clear to proceed delineation began by use of a hand-auger. The soil was field tested for chloride using both the chloride strip and the titration method. A PID meter was also used to indicate concentrations of BTEX and hydrocarbons. Soil samples were taken from nine sample points of the pasture area. The area was sampled using 1' intervals for each sample point. TPH was found in most of the field sampling, so you will see that the depths of the sampling were due high concentrations of TPH. All of the delineation samples were taken to Cardinal Laboratory for confirmation. **Please see the sample trending data sheet attached to this report for more information. Below you will find the vertical final sample depth data confirmed by Cardinal Lab.



Ver Sam ID	Depth	CHL mg/kg	BTEX mg/kg	GRO mg/kg	DRO mg/kg	E-DRO mg/kg	Ttl TPH mg/kg
SP1	8'	800	<0.300	<10	<10	<10	<10
SP2	6'	288	<0.300	<10	<10	<10	<10
SP3	4'	112	<0.300	<10	<10	<10	<10
SP4	14'	5240	<0.300	<10	<10	<10	<10
SP5	4'	112	<0.300	<10	<10	<10	<10
SP6	4'	336	<0.300	<10	<10	<10	<10
SP7	16'	4520	<0.300	<10	<10	<10	<10
SP8	16'	240	<0.300	<10	<10	<10	<10
SP9	14'	5240	<0.300	<10	<10	<10	<10

With the vertical samples confirmations from Cardinal Lab's it was determined that 6" to 1' in the area of the pasture for sample points 1,4,7 and 9 that the excavation needed to go deeper. These three areas were further delineated and four side walls were jarred and delivered to Cardinal Lab for confirmation.

Horizontal samples then were conducted to find the horizontal extent for the impacted area. Each sample was sampled in the field and then taken to Cardinal lab for confirmation. Below you will find the closure samples for the sidewalls that were jarred and delivered to Cardinal Lab.

Horz Sam ID	Depth	CHL mg/kg	BTEX mg/kg	GRO mg/kg	DRO mg/kg	E-DRO mg/kg	Ttl TPH mg/kg
SW1	2'	80	<0.300	<10	<10	<10	<10
SW2	2'	80	<0.300	<10	<10	<10	<10
SW3	2'	128	<0.300	<10	<10	<10	<10
SW4	2'	16	<0.300	<10	<10	<10	<10
SP 1	22'	320	<0.300	<10	<10	<10	<10
SP 4	26'	1380	<0.300	<10	<10	<10	<10
SP 7	28'	144	<0.300	<10	<10	<10	<10
SP 9	34'	8400	<0.300	<10	<10	<10	<10

On May 11, 2019 an email was sent to the NMOCD to request to witness final closure samples. The closure samples for this site all came back with passing levels. The spill area was dug out and side wall samples were taken from eleven sample points. Five bottom hole, one composite was taken and twelve side- walls were jarred and delivered to Cardinal Lab for confirmation. Based on the lab results, it was



determined that a 20mil liner was to be installed at 4'bgs. A total of 1380 cubic yards were hauled to Lea Land Disposal and 1552 yards of clean caliche was brought back in for backfill of the excavated area mentioned above.

Below you will find the closure samples of the excavated final samples for this site and confirmed by Cardinal Laboratories. Please also see details on the sample map attached herein.

CLOSURE SAM ID	Depth	CHL mg/kg	BTEX mg/kg	GRO mg/kg	DRO mg/kg	E-DRO mg/kg	Ttl TPH mg/kg
COMP ESW	1'	48	<0.300	<10	<10	<10	<10
COMP ESW	2'	112	<0.300	<10	<10	<10	<10
COMP ESW	3'	32	<0.300	<10	<10	<10	<10
COMP ESW	4'	96	<0.300	<10	<10	<10	<10
COMP NSW	1'	272	<0.300	<10	<10	<10	<10
COMP NSW	2'	96	<0.300	<10	<10	<10	<10
COMP SSW	1'	<16	<0.300	<10	<10	<10	<10
COMP SSW	2'	32	<0.300	<10	<10	<10	<10
COMP WSW	1'	224	< 0.300	<10	<10	<10	<10
COMP WSW	2'	32	<0.300	<10	<10	<10	<10
COMP WSW	3'	32	<0.300	<10	<10	<10	<10
COMP WSW	4'	64	< 0.300	<10	<10	<10	<10
BH #1		128	<0.300	<10	<10	<10	<10
BH #2		<16	<0.300	<10	<10	<10	<10
BH #3		6240	<0.300	<10	<10	<10	<10
BH #4		688	<0.300	<10	<10	<10	<10
BH #5		5040	<0.300	<10	<10	<10	<10
BH COMP		2520	<0.300	<10	<10	<10	<10

Scope and Limitations

The scope of our services consisted of the performance of the assessment sampling, vertical and horizontal of the release stabilization, liner installation, regulatory liaison and preparation of this closure report. All work has been performed in accordance with the NMOCD Rules and Regulations for Spills and Releases dated August 14, 2018.



On behalf of Percussion Petroleum and Hungry Horse, LLC., we respectfully request closure of the release on the Morris Boyd 26 Fee Com 1H. If you have any concerns or questions please direct them to me, contact information is listed below.

Sincerely,

Natalie Gladden

Environmental & Regulatory Director

Hungry Horse, LLC

4024 Plains Hwy

Lovington, NM 88260

Cell (575) 390-6397

Email: ngladden@hungry-horse.com

Attachments:

C-141 & COA, including pages 3-6 Groundwater Data Site Photographs & Site Diagram Karst Map's Sample Data and Sample Map Lab Results

C-141 & COA Final C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NAB1910937075
District RP	2RP-5353
Facility ID	
Application ID	pAB1910936795

Release Notification

Responsible Party

	Responsible Party Percussion Petroleum				OGRID 371755				
Contact Name Michael Martin				Con	Contact Telephone (713) 429-4249				
Contact ema	ail Michael@	percussionpetrol	leum.com		ent # (assigned by OCD)	1040007075			
Contact mai 919 Milam S	Contact mailing address 919 Milam Street, Suite 2475 Houston, TX 77002				NAB	1910937075			
			Locatio	n of Releas	e Source				
_atitude	atitude 32.62931 (NAD 83 in decimal de			Longi decimal degrees to	ude 5 decimal places)	-104.44991			
Site Name M	orris Boyd 2	26 Fee Com #1H		Site	ype SWD Line				
Date Release	Discovered	3/27/2019			(if applicable) 30-015-38962				
Unit Letter	Section	Township	Range		County				
I	26	198	25E	Eddy					
		Federal T		nd Volume	of Release)			
			Nature an	nd Volume)			
Crude Oil	Materia		Nature ar	nd Volume	of Release ecific justification for the volumes pro Volume Recovered (bbls	vided below)			
☐ Crude Oil ☑ Produced	Materia	l(s) Released (Select a Volume Release Volume Release	Nature are all that apply and attaced (bbls)	nd Volume	ecific justification for the volumes pro	3)			
	Materia	Volume Release Volume Release Is the concentral	Nature are all that apply and attaced (bbls) ed (bbls) 25 bbls tion of dissolved	nd Volume	Volume Recovered (bbls	3)			
	Material Water	l(s) Released (Select a Volume Release Volume Release	Nature and attacked (bbls) ed (bbls) 25 bbls tion of dissolved >10,000 mg/l?	nd Volume	Volume Recovered (bbls Volume Recovered (bbls Volume Recovered (bbls	s) 0 bbls			
⊠ Produced	Material Water	Volume Release Volume Release Volume Release Is the concentrate produced water	Nature are all that apply and attaced (bbls) ed (bbls) 25 bbls ation of dissolved >10,000 mg/l? ed (bbls)	nd Volume	Volume Recovered (bbls Volume Recovered (bbls Volume Recovered (bbls Volume Recovered (bbls Volume Recovered (bbls	s) 0 bbls			
☑ Produced ☑ Condensat	Material Water	Volume Release Is the concentrar produced water Volume Release	Nature are all that apply and attaced (bbls) ed (bbls) 25 bbls tion of dissolved >10,000 mg/l? ed (bbls) ed (Mcf)	nd Volume ch calculations or sp	Volume Recovered (bbls Volume Recovered (bbls Volume Recovered (bbls	s) 0 bbls			

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Incident ID	NAB1910937075	
District RP	2RP-5353	-
Facility ID		-
Application ID	pAB1910936795	-

		TAPATOLICA PARTOTOSOVOS
Was this a major release as defined by	If YES, for what reason(s) does the resp Release of 25 bbls fluid.	onsible party consider this a major release?
19.15.29.7(A) NMAC?	recouse of 25 obis fidia.	
⊠ Yes □ No		
If YES, was immediate no	otice given to the OCD? By whom? To w	whom? When and by what means (phone, email, etc)?
Yes, Michael Martin ema	illed Mike Bratcher (NMOCD) on 3/28/20	19 at 3:20 PM
	Initial R	
The responsible p	arty must undertake the following actions immediate	ely unless they could create a safety hazard that would result in injury
☐ The source of the rele	ase has been stopped.	
	s been secured to protect human health and	the environment.
Released materials ha	ve been contained via the use of berms or	dikes, absorbent pads, or other containment devices.
All free liquids and re	coverable materials have been removed an	d managed appropriately.
If all the actions described	above have not been undertaken, explain	why:
Por 10 15 20 0 P (4) > P (4)		
has begun, please attach a	the responsible party may commence r	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred
a mica comunimient	area (see 19.13.29.11(A)(3)(a) NMAC), p	please attach all information needed for closure evaluation.
I hereby certify that the inform	nation given above is true and complete to the	best of my knowledge and a last 141
public health or the environme	ent. The acceptance of a C-141 report by the C	CD does not religious the assess that the control of the control o
and/or regulations.	1C-141 report does not relieve the operator of	responsibility for compliance with any other federal, state, or local laws
Printed Name: _Michael M	<u>fartin</u>	Title: Production Engineer
Signature: Min n		Date: 4/4/2019
email: <u>Michael@percussion</u>	onpetroleum.com	Telephone: (713) 429-4249
OCD Only		
Received by:	Internante	Date: 4/19/2019
- Lime	my xirunum	Date. 17 10/2010

District I
1625 N. French Dr., Hobbs, NM 88240
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811 S. First St., Artesia, NM 88210
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Incident ID	NAB1910937075
District RP	2RP-5353
Facility ID	
Application ID	pAB1910936795

Release Notification

Responsible Party

Responsible Party Percussion Petroleum				OGRID 371755					
	me Michael				Contact Telephone (713) 429-4249				
Contact em	Contact email Michael@percussionpetroleum.com				Incident	# (assigned by OCD) NAB1910937075			
	iling address Street, Suite	3 2475 Houston, T	X 77002			NAD 1910937075			
			Location	on of R	Release S	Source			
Latitude	Latitude					-104.44991 cimal places)			
Site Name M	Iorris Boyd	26 Fee Com #1H			Site Type	e SWD Line			
Date Release	Discovered	3/27/2019				pplicable) 30-015-38962			
Unit Letter	Section	Township	Range		Cou	unty			
I	26	19S	25E	Eddy					
Crude Oil	L	l(s) Released (Select a Volume Release	all that apply and atta	ach calculati	ions or specific	Volume Recovered (bbls)			
	L	Volume Release	ed (bbls)	ion curpulati	Volume Recovered (bbls)				
Produced	Water		ed (bbls) 25 bbls			Volume Recovered (bbls) 0 bbls			
		Is the concentra produced water	tion of dissolved >10,000 mg/l?	l chloride	in the	⊠ Yes □ No			
Condensa	te	Volume Release	ed (bbls)			Volume Recovered (bbls)			
☐ Natural G	as	Volume Release	ed (Mcf)			Volume Recovered (Mcf)			
Other (des	scribe)	Volume/Weight	Released (provi	de units)					
CAMPACITY (TIPLE	to a leak in d closest we	one of our SWD l ll for site name). ' discovered it. We	THE SDILL WAS EST	imared to	he / hhie	WD well. The spill was north of our Morris Boyd #1H is (length x width x depth divided by 5.62) and was service.			

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Incident ID	NAB1910937075	
District RP	2RP-5353	
Facility ID		-
Application ID	pAB1910936795	-

		Application in	pAB 19 10930795
Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the res Release of 25 bbls fluid.	sponsible party consider this a major release?	
Yes □ No		•	
If YES, was immediate no	Otice given to the OCD2 By whom? To	whom? When and by what means (phone, em	
Yes, Michael Martin ema	iled Mike Bratcher (NMOCD) on 3/28/2	2019 at 3:20 PM	ail, etc)?
		Response	
The responsible p	arty must undertake the following actions immedi	iately unless they could create a safety hazard that would re	esult in injury
The source of the release	ase has been stopped.		
∑ The impacted area has	s been secured to protect human health a	and the environment.	
Released materials have	ve been contained via the use of berms of	or dikes, absorbent pads, or other containment d	devices.
All free liquids and rec	coverable materials have been removed	and managed appropriately.	
If all the actions described	above have not been undertaken, explai	in why:	
mas obban, prouse attach a	marrative of actions to male. It rements	e remediation immediately after discovery of a all efforts have been successfully completed or please attach all information needed for closure.	:0.1 1
I hereby certify that the inforn regulations all operators are re public health or the environme failed to adequately investigate	nation given above is true and complete to the equired to report and/or file certain release not cent. The acceptance of a C-141 report by the grand remediate contamination that pose at the	ne best of my knowledge and understand that pursual obtifications and perform corrective actions for release OCD does not relieve the operator of liability shoul areat to groundwater, surface water, human health or of responsibility for compliance with any other feder	nt to OCD rules and es which may endanger ld their operations have
Printed Name: _Michael M	artin	Title: Production Engineer	
Signature: Min m		Date: 4/4/2019	
email: <u>Michael@percussio</u>	onpetroleum.com	Telephone: (713) 429-4249	
OCD Only Received by:	In Dotamente	Date: _ 4/19/2019	

For every by OCD: 3/17/2020	4:20:58 PM of New Mexico
Page 3	Oil Conservation Division

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Incident ID	
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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?	40-105 (ft bgs)	
Did this release impact groundwater or surface water?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No	
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No	
Are the lateral extents of the release within a 100-year floodplain?		
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No	
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.		
Characterization Report Checklist: Each of the following items must be included in the report.		
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination 		
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs		
Photographs including date and GIS information Topographic/Aerial maps		
☐ Laboratory data including chain of custody		

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

Received-44 OCD: 3/17/2020	4:20:58 PMate of New Mexico
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Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.
 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)
Deferral Requests Only: Fach of the following items must be an formal and the following items must be an formal and the following items are set in the following items and the following items are set in the following items and the following items are set in the following items and the following items are set in the following items and the following items are set in the following items are set in the following items and the following items are set in th
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.
○ Contamination does not cause an imminent risk to human health, the environment, or groundwater.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Natalie Gladden Title: Environmental and Regulatory Director Date: _8/22/19
email: _ngladden@hungry-horse.com Telephone:575-390-6397
OCD Only
OCD OIIIV
Received by: Date:
Approved Approved with Attached Conditions of Approval Denied Deferral Approved
Signature: Date:

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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 19.1	5.29.11 NMAC
Photographs of the remediated site prior to backfill or p must be notified 2 days prior to liner inspection)	photos of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate	e ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
may endanger public health or the environment. The acceptar should their operations have failed to adequately investigate an human health or the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or restore, reclaim, and re-vegetate the impacted surface area to t accordance with 19.15.29.13 NMAC including notification to	Title: Environmental and Regulatory Director Date:8/22/19
OCD Only	
Received by:	Date:
Closure approval by the OCD does not relieve the responsible premediate contamination that poses a threat to groundwater, surparty of compliance with any other federal, state, or local laws	party of liability should their operations have failed to adequately investigate and face water, human health, or the environment nor does not relieve the responsible and/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

Groundwater Data



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

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 551618.87

Northing (Y): 3610327

Radius: 1000

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.

4/22/19 2:59 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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)

	crosca)	POD			(qui	1110	15 410	Januari	est to lai	gest)	(NAD83 UTW III III	ieters)	(In to	eet)	
DOD Novel	C 1	Sub-			Q			-							Vater
POD Number RA 10496	Code	Basin RA	County				Sec 25	19S	Rng 25E	55280		DistanceDe	epthWellDept	hWater Co	olumn 70
RA 10155		RA	ED		3			19S	25E	55300		1457	225	60	165
RA 07026		RA	ED		3	3	30	19S	26E	553699		2109	135	105	30
RA 03018		RA	ED	3	2	4	34	19S	25E	549987		2347	530	103	30
RA 02958		RA	ED		1	4	34	19S	25E	549681	to the second year.	2504	450		
RA 03304		RA	ED			1	27	19S	25E	549081		2618	130	60	70
RA 10002		RA	ED	2	2	1	31	19S	26E	554208		2669	200	95	105
RA 08986		RA	ED	1	3	3	22	19S	25E	548825		3033	320	220	100
RA 09295		RA	ED	4	3	4	13	198	25E	552979		3101	250	85	165
RA 10898 POD1		RA	ED	2	1	3	01	20S	25E	552198	-	3133	810	121	689
RA 09293		RA	ED	3	4	4	13	19S	25E	553180		3194	250	60	190
RA 09294		RA	ED	3	4	4	13	19S	25E	553180	3613114*	3194	194	76	118
RA 02909		RA	ED		1	3	22	19S	25E	548864	3611989*	3217	188	130	58
RA 08611		RA	ED	1	1	1	19	19S	26E	553583	3612909*	3244	235	90	145
RA 09988		RA	ED	2	4	1	19	19S	26E	554190		3370	100	65	35
RA 08612		RA	ED	1	2	1	19	19S	26E	553989	3612912*	3507	221	80	141
RA 05458		RA	ED		3	3	01	20S	25E	552101	3606747*	3612	500	95	405
RA 10949 POD1		RA	ED	3	1	2	06	20S	26E	554409	3607867*	3719	807	71	736
RA 10817		RA	ED	1	1	ī	12	20S	25E	552002	3606443*	3902	743	102	641
RA 07817		RA	ED	2	1	2	19	19S	26E	554592	3612915*	3941	224	145	79
RA 07817 CLW		RA	ED	2	1	2	19	19S	26E	554592	3612915*	3941	275	130	145
RA 09077		RA	ED	2	1	2	19	19S	26E	554592	3612915*	3941	200		
RA 05550		RA	ED	3	1	3	32	19S	26E	555209	3608679*	3950	185	95	90
RA 09497		RA	ED	3	3	2	06	20S	26E	554410	3607460*	4001	200		
RA 05450		RA	СН		4	2	15	19S	25E	550057	3614015*	4005	204	80	124
RA 08962		RA	ED	2	2	1	32	19S	26E	555810	3609680*	4240	300	180	120
RA 10262		RA	ED	2	2	2	19	19S	26E	554994	3612917*	4254	200	85	115
RA 01451 CLW-1		RA	ED	2	1	4	06	20S	26E	554611	3607258*	4286	271	65	206
RA 02182		RA	ED		1	4	06	20S	26E	554512	3607159*	4290	575		
<u>RA 00434 S</u>		RA	ED	3	1	1	05	20S	26E	555210	3607873*	4349	650	20	630
RA 10818		RA	ED	1	3	2	12	20S	25E	552807	3606039*	4449	692	72	620
<u>RA 01143</u>		RA	ED		3	4	06	20S	26E	554513	3606757*	4595	650		
RA 01451		RA	ED		3	4	06	20S	26E	554513	3606757*	4595	330		

4/22	/2019	nmwrrs.ose.state.nm.u	ıs/nmwrr	s/Repo	rtP	rox	y?c	query	/Data=	=%7B"re	port"%3A'	waterColumn"%20	C%0A"BasinI	Div"%3A"true"	%2C%0A	"Basin.
	RA 01451 CLV		RA			3			20S	26E	554513	3606757* 🥊	4595	330		
	RA 09451		RA	ED	1	3	4	20	19S	26E	556006	3611701*	4597	200		
	RA 03202 S3		RA	ED	3	3	4	06	20S	26E	554412	3606656*	4612	205		
	RA 03790		RA	ED	2	2	1	07	20S	26E	554210	3606447*	4665	135	97	38
	RA 07446		RA	ED		4	2	12	20S	25E	553310	3605940*	4701	185	135	50
	RA 01343		RA	ED	2	1	1	18	19S	26E	553777	3614525*	4720	440	69	371
	RA 10779		RA	ED	1	3	2	10	20S	25E	549580	3606026*	4759	1300		
	RA 01451 SUP	-	RA	ED	1	1	2	07	20S	26E	554412	3606452*	4776			
	RA 02868		RA	ED	1	1	2	07	20S	26E	554412	3606452*	4776	200		
	RA 10918 POD	<u>)1</u>	RA	ED	3	2	4	11	20S	25E	551600	3605434*	4893	694	70	624
	RA 01952		RA	ED	3	1	3	12	20S	25E	552005	3605437*	4905			
	RA 10929 POD	<u>D1</u>	RA	ED	3	1	2	07	20S	26E	554412	3606252*	4940	763	56	707
												Average De	epth to Water:		92 feet	
												M	inimum Depth	ı	20 feet	
												Ma	ximum Depth:	E	220 feet	
	THE RE NO THE RE HE HAS NO THE REAL PROPERTY FOR THE REAL PROPERTY.															

Record Count: 45

UTMNAD83 Radius Search (in meters):

Easting (X): 551618.87

Northing (Y): 3610327

Radius: 5000

*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.

4/22/19 3:00 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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)

X

POD Number RA 10155

Q64 Q16 Q4 Sec Tws Rng 4 25 19S 25E

553001

3609865*

1064 **Driller License:**

Driller Company:

DELFORD W. MARTIN

Driller Name:

Well Tag

MARTIN, DELFORD

05/26/2002

Drill Finish Date:

06/01/2002

Plug Date:

Drill Start Date: Log File Date:

PCW Rcv Date:

Source:

Shallow

Pump Type:

06/07/2002

Pipe Discharge Size:

Estimated Yield:

Casing Size:

5.50

Depth Well:

225 feet

Depth Water:

60 feet

Water Bearing Stratifications:

Top

182

Bottom Description

Shallow Alluvium/Basin Fill

Casing Perforations:

Bottom Top

> 40 225

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4/22/19 3:01 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 30 19S 26E

X

RA 07026

553699 3609975*

Driller License:

749

Driller Company:

HUGHES, SAMUEL DALE

Driller Name:

EXISTING WELL

Drill Start Date: 12/09/1982 **Drill Finish Date:**

12/30/1982

Plug Date:

Log File Date:

07/05/1983

PCW Rcv Date:

Pipe Discharge Size:

Source:

Estimated Yield: 50 GPM

Shallow

Pump Type: Casing Size:

7.00

Depth Well:

135 feet

Depth Water:

105 feet

Water Bearing Stratifications:

Top Bottom Description

Sandstone/Gravel/Conglomerate

85 110

Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

100

135

ROCKWELL

Meter Number:

9020 027

Meter Make:

100.0000

Meter Serial Number: Number of Dials:

Meter Type:

Diversion

Unit of Measure:

Gallons

Return Flow Percent:

Meter Multiplier:

Usage Multiplier:

Reading Frequency:

Meter Readings (in Acre-Feet)

Read Date Year

Mtr Reading Flag

Rdr Comment

172932 A

RPT

Mtr Amount

04/13/2005 2005

179072 A

RPT

1.884

**YTD Meter Amounts: Year

2005

Amount

2005

1.884

06/02/2005

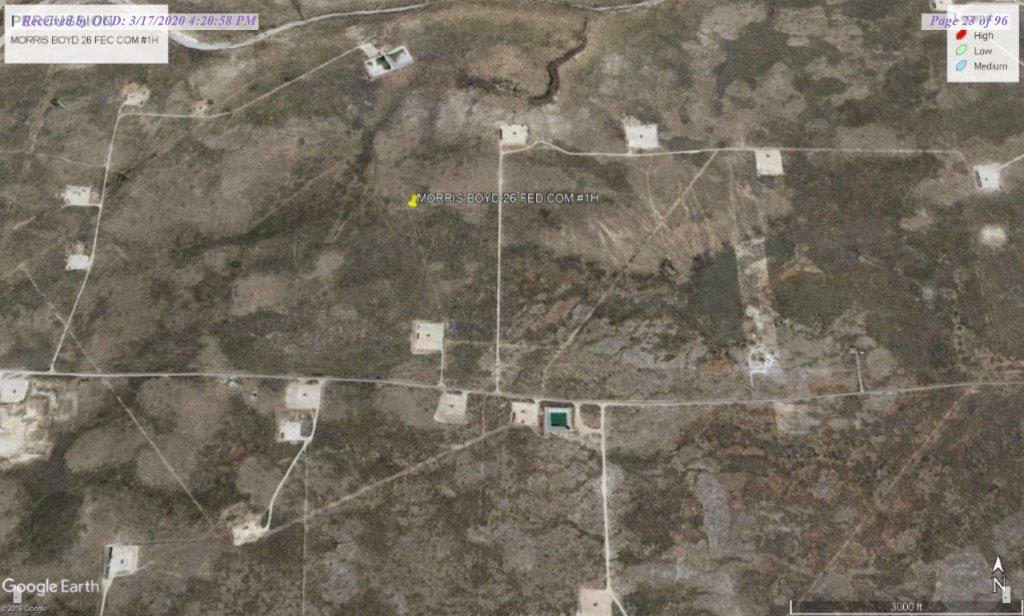
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, or suitability for any particular purpose of the data.

4/22/19 3:02 PM

POINT OF DIVERSION SUMMARY

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

Site Diagram & Site Photographs



















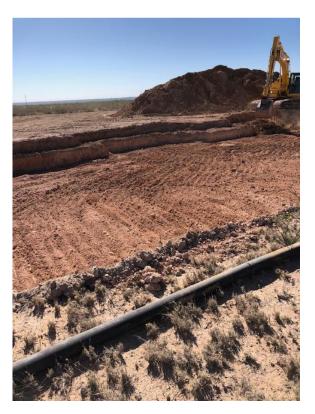








































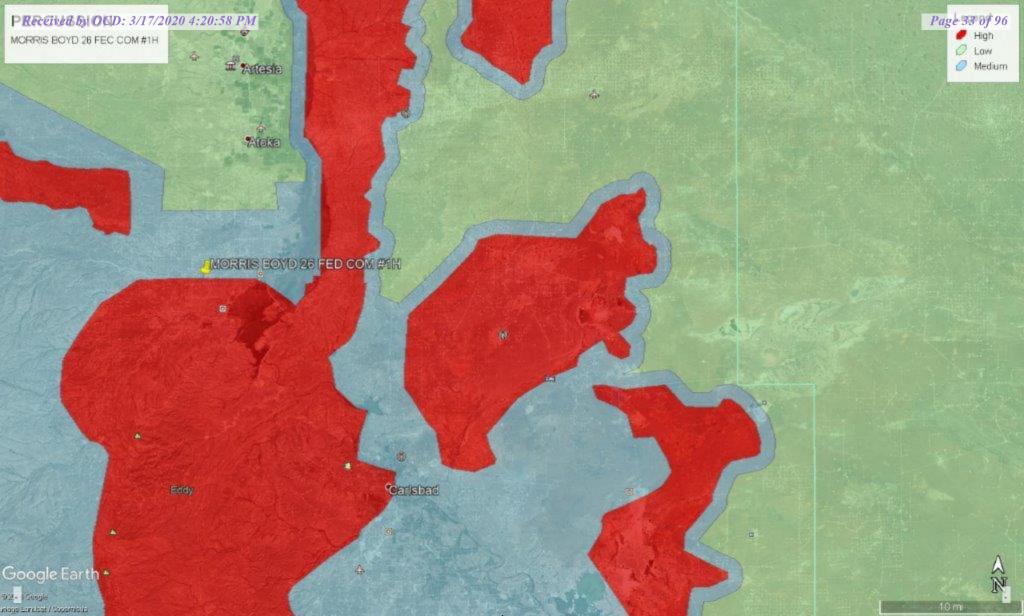






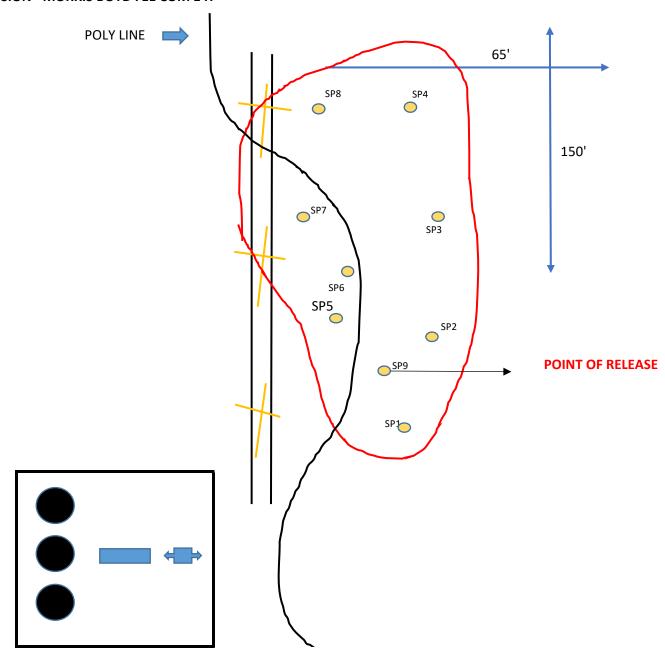


Karst Maps



Final Sampling Results & Lab Results

PERCUSSION - MORRIS BOYD FEE COM 1 H



Company Name PERCUSSION Location Name: MORRIS BOYD FED COM 1H Release Date:

SP ID	Depth	Titr	PID	L-Chl	L-BTEX	L-GRO	L-DRO	L-MRO	Ttl TPH	Soil	Notes
SP1	SUR	<10.000									
	2'	8640									
	4'	400									
	6'	480									
	8'	480		800	<0.300	<10	<10	<10	<30		GET BELOW 600
	10'	2400									
	12'	2400									
	14'	10000									
	16'	3680									
	18'	4560									
	20'	400									
	22'	6880		320	<0.300	<10	<10	<10	<30		
SP2	SUR	>10.000									
	2'	8000									
	4'	480									
	6'	400		288	<0.300	<10	<10	<10	<30		
SP 3	SUR	240									
	2'	400									
	4'	400		112	<0.300	<10	<10	<10	<30		
SP 4	SUR	400									
	2'	1760									
	4'	320									
	6'	5720									
	8'	6960									
	10'	3200									
	12'	2640									
	14'	3600		5240	<0.300	<10	<10	<10	<30		GET TO 600

			 						,
	16'	3840							
	18'	3840							
	20'	6880							
	22'	6880							
	24'	1760							
	26'	1760	1380	<0.300	<10	<10	<10	<30	
SP 5	SUR	>10.000							
	2'	240							
	4'	240	112	<0.300	<10	<10	<10	<30	
SP6	SUR	800							
	2'	400							
	4'	400	336	<0.300	<10	<10	<10	<30	
SP7	SUR	>10.000							
	2'	>10.000							
	4'	7600							
	6'	4320							
	8'	6960							
	10'	4960							
	12'	9600							
	14'	6800							
	16'	3680	4520	<0.300	<10	<10	<10	<30	GET TO 600
	18'	7280							
	20'	880							
	22'	880							
	24'	400							
	26'	800				1			
	28'	800	144	<0.300	<10	<10	<10	<30	
SP8	SUR	1760							
	2'	1280							
	<u>, - </u>				1	1			

	1	1	 1		1	1	1	1	1	1
	4'	>10.000								
	6'	5200								
	8'	2800								
	10'	960								
	12'	720								
	14'	400								
	16'	320	240	<0.300	<10	<10	<10	<30		
SP9	SUR	>1000								POINT OF RELEASE
	2'	8480								
	4'	5040								
	6'	5220								
	8'	5360								
	10'	5360								
	12'	7120								
	14'	6240	5240	<0.300	<10	<10	<10	<30		
	16'	7600								WENT DEEPER DUE TO LABS
	18'	10400								
	20'	10400								
	22'	9920								
	24'	9920								
	26'	4800								
	28'	5600								
	30'	5600								
	32'	6400								
	34'	6400	8400	<0.300	<10	<10	<10	<30		
SW1	SUR	720								
	1'	160								
	2'	240								
SW2	SUR	240								
	1'	240								
	2'	240								

SW3	SUR	400					
	1'	320					
	2'	320					
SW4	SUR	160					
	1'	160					
	2'	160					

•



April 22, 2019

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

RE: MORRIS BOYD FED COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 04/18/19 8:13.

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:

04/18/2019

Sampling Date:

04/16/2019

Reported:

04/22/2019

Sampling Type:

Soil

Project Name:

MORRIS BOYD FED COM #1H

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

Project Number: Project Location:

NONE GIVEN

Sample ID: SP 1 - 8 (H901410-01)

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	04/18/2019	ND	1.94	97.2	2.00	0.288	
Toluene*	<0.050	0.050	04/18/2019	ND	2.09	105	2.00	1.68	
Ethylbenzene*	<0.050	0.050	04/18/2019	ND	2.01	101	2.00	3.34	
Total Xylenes*	<0.150	0.150	04/18/2019	ND	6.07	101	6.00	2.65	
Total BTEX	<0.300	0.300	04/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.1	% 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
Chloride	800	16.0	04/18/2019	ND	432	108	400	3.64	
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	04/18/2019	ND	193	96.5	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/18/2019	ND	205	103	200	8.42	
EXT DRO >C28-C36	<10.0	10.0	04/18/2019	ND					
Surrogate: 1-Chlorooctane	96.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	97.7	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

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

Received:

04/18/2019

Sampling Date:

04/16/2019

Reported:

04/22/2019

Sampling Type:

Soil

Project Name:

MORRIS BOYD FED COM #1H

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

Project Number:

NONE GIVEN

Project Location:

NONE GIVEN

Sample ID: SP 2 - 6 (H901410-02)

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	04/18/2019	ND	1.94	97.2	2.00	0.288	
Toluene*	<0.050	0.050	04/18/2019	ND	2.09	105	2.00	1.68	
Ethylbenzene*	<0.050	0.050	04/18/2019	ND	2.01	101	2.00	3.34	
Total Xylenes*	<0.150	0.150	04/18/2019	ND	6.07	101	6.00	2.65	
Total BTEX	<0.300	0.300	04/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.7	% 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	288	16.0	04/18/2019	ND	432	108	400	3.64	
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	04/19/2019	ND	193	96.5	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/19/2019	ND	205	103	200	8.42	
EXT DRO >C28-C36	<10.0	10.0	04/19/2019	ND					
Surrogate: 1-Chlorooctane	96.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	98.2	% 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:

BTEX 8021B

04/18/2019

Sampling Date:

04/16/2019

Reported:

04/22/2019

Sampling Type:

Soil

Project Name:

MORRIS BOYD FED COM #1H

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

Project Number: Project Location:

NONE GIVEN

mg/kg

Sample ID: SP 3 - 4 (H901410-03)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2019	ND	1.94	97.2	2.00	0.288	
Toluene*	<0.050	0.050	04/18/2019	ND	2.09	105	2.00	1.68	
Ethylbenzene*	<0.050	0.050	04/18/2019	ND	2.01	101	2.00	3.34	
Total Xylenes*	<0.150	0.150	04/18/2019	ND	6.07	101	6.00	2.65	
Total BTEX	<0.300	0.300	04/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1 9	73.3-129	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	04/18/2019	ND	432	108	400	3.64	
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	04/19/2019	ND	193	96.5	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/19/2019	ND	205	103	200	8.42	
EXT DRO >C28-C36	<10.0	10.0	04/19/2019	ND					

Analyzed By: ms

Surrogate: 1-Chlorooctadecane

Surrogate: 1-Chlorooctane

101 % 104 % 41-142 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:

BTEX 8021B

04/18/2019

Sampling Date:

04/16/2019

Reported:

04/22/2019

Sampling Type:

Soil

Project Name:

MORRIS BOYD FED COM #1H

Sampling Condition:

Cool & Intact

Project Number: Project Location:

NONE GIVEN

mg/kg

Sample Received By:

Jodi Henson

Sample ID: SP 4 - 14 (H901410-04)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2019	ND	1.94	97.2	2.00	0.288	
Toluene*	<0.050	0.050	04/18/2019	ND	2.09	105	2.00	1.68	
Ethylbenzene*	<0.050	0.050	04/18/2019	ND	2.01	101	2.00	3.34	
Total Xylenes*	<0.150	0.150	04/18/2019	ND	6.07	101	6.00	2.65	
Total BTEX	<0.300	0.300	04/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.89	% 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	5240	16.0	04/18/2019	ND	432	108	400	3.64	
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	04/19/2019	ND	193	96.5	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/19/2019	ND	205	103	200	8.42	

Analyzed By: ms

Surrogate: 1-Chlorooctane 98.3 %
Surrogate: 1-Chlorooctadecane 103 %

41-142 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:

BTEX 8021B

04/18/2019

Sampling Date:

04/16/2019

Reported:

04/22/2019

Sampling Type:

Soil

Project Name:

MORRIS BOYD FED COM #1H

Sampling Condition:

Cool & Intact

Project Number: Project Location:

NONE GIVEN

mg/kg

101 %

37.6-147

Sample Received By:

Jodi Henson

Sample ID: SP 5 - 4 (H901410-05)

	91	9							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2019	ND	1.94	97.2	2.00	0.288	
Toluene*	<0.050	0.050	04/18/2019	ND	2.09	105	2.00	1.68	
Ethylbenzene*	< 0.050	0.050	04/18/2019	ND	2.01	101	2.00	3.34	
Total Xylenes*	< 0.150	0.150	04/18/2019	ND	6.07	101	6.00	2.65	
Total BTEX	<0.300	0.300	04/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2 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	112	16.0	04/18/2019	ND	432	108	400	3.64	
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	04/19/2019	ND	193	96.5	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/19/2019	ND	205	103	200	8.42	
EXT DRO >C28-C36	<10.0	10.0	04/19/2019	ND					
Surrogate: 1-Chlorooctane	96.99	% 41-142							

Analyzed By: ms

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Celey D. Kune



Analytical Results For:

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

Received:

BTEX 8021B

04/18/2019

Sampling Date:

04/16/2019

Reported:

04/22/2019

Sampling Type:

Soil

Project Name:

MORRIS BOYD FED COM #1H

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

Project Number:

NONE GIVEN

Project Location:

NONE GIVEN

mg/kg

Sample ID: SP 6 - 4 (H901410-06)

DILX GOZID	11197	ng .	Andryzo	u by. III3					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/18/2019	ND	1.94	97.2	2.00	0.288	
Toluene*	< 0.050	0.050	04/18/2019	ND	2.09	105	2.00	1.68	
Ethylbenzene*	< 0.050	0.050	04/18/2019	ND	2.01	101	2.00	3.34	
Total Xylenes*	<0.150	0.150	04/18/2019	ND	6.07	101	6.00	2.65	
Total BTEX	<0.300	0.300	04/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.3	% 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	04/18/2019	ND	432	108	400	3.64	
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	04/19/2019	ND	193	96.5	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/19/2019	ND	205	103	200	8.42	
EXT DRO >C28-C36	<10.0	10.0	04/19/2019	ND					
Surrogate: 1-Chlorooctane	92.4	% 41-142							
Surrogate: 1-Chlorooctadecane	97.7	% 37.6-14	7						

Analyzed By: ms

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Keene



Analytical Results For:

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

Received:

RTFY 8021R

04/18/2019

Sampling Date:

04/16/2019

Reported:

04/22/2019

Sampling Type:

Soil

Project Name:

MORRIS BOYD FED COM #1H

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

ma/ka

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: SP 7 - 16 (H901410-07)

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	04/18/2019	ND	1.94	97.2	2.00	0.288	
Toluene*	<0.050	0.050	04/18/2019	ND	2.09	105	2.00	1.68	
Ethylbenzene*	<0.050	0.050	04/18/2019	ND	2.01	101	2.00	3.34	
Total Xylenes*	<0.150	0.150	04/18/2019	ND	6.07	101	6.00	2.65	
Total BTEX	<0.300	0.300	04/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.5	% 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	4520	16.0	04/18/2019	ND	432	108	400	3.64	
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	04/19/2019	ND	193	96.5	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/19/2019	ND	205	103	200	8.42	
EXT DRO >C28-C36	<10.0	10.0	04/19/2019	ND					
Surrogate: 1-Chlorooctane	93.1	% 41-142							
Surrogate: 1-Chlorooctadecane	96.2	% 37.6-14	7						

Analyzed By: me

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

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

Received:

04/18/2019

Sampling Date:

04/16/2019

Reported:

04/22/2019

Sampling Type:

Soil

Project Name:

MORRIS BOYD FED COM #1H

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

Project Number:

NONE GIVEN

Project Location: NONE GIVEN

Sample ID: SP 8 - 16 (H901410-08)

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	04/18/2019	ND	1.94	97.2	2.00	0.288	
Toluene*	<0.050	0.050	04/18/2019	ND	2.09	105	2.00	1.68	
Ethylbenzene*	<0.050	0.050	04/18/2019	ND	2.01	101	2.00	3.34	
Total Xylenes*	<0.150	0.150	04/18/2019	ND	6.07	101	6.00	2.65	
Total BTEX	<0.300	0.300	04/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.9 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	240	16.0	04/18/2019	ND	432	108	400	3.64	
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	04/19/2019	ND	193	96.5	200	1.43	
DRO >C10-C28*	<10.0	10.0	04/19/2019	ND	205	103	200	8.42	
EXT DRO >C28-C36	<10.0	10.0	04/19/2019	ND					
Surrogate: 1-Chlorooctane	88.3 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	88.8 9	% 37.6-14	7						

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*=Accredited Analyte

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Analytical Results For:

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

Received:

04/18/2019

Sampling Date:

04/16/2019

Reported:

04/22/2019

Sampling Type:

Soil

Project Name:

MORRIS BOYD FED COM #1H

Sampling Condition:

Cool & Intact

Project Number: Project Location:

NONE GIVEN

Sample Received By:

Jodi Henson

Sample ID: SP 9 - 14 (H901410-09)

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	04/18/2019	ND	1.94	97.2	2.00	0.288	
Toluene*	<0.050	0.050	04/18/2019	ND	2.09	105	2.00	1.68	
Ethylbenzene*	<0.050	0.050	04/18/2019	ND	2.01	101	2.00	3.34	
Total Xylenes*	<0.150	0.150	04/18/2019	ND	6.07	101	6.00	2.65	
Total BTEX	<0.300	0.300	04/18/2019	ND					
Surrogate: 4-Bromofluorobenzene (PL	D 95.7	% 73.3-12	9						

Chloride, SM4500CI-B	mg/kg Result Reporting Limit		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	6640	16.0	04/18/2019	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	04/19/2019	ND	193	96.5	200	1.43	
DRO >C10-C28*	24.2	10.0	04/19/2019	ND	205	103	200	8.42	
EXT DRO >C28-C36	<10.0	10.0	04/19/2019	ND					

Surrogate: 1-Chlorooctane

93.9 %

41-142

Surrogate: 1-Chlorooctadecane

97.2 %

37.6-147

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

Sampler - UPS - Bus - Other: -12.62

497

Sample Condition
Cool Intact
Yes Yes
No No

Cardinal cannot accent workel channee Dlasce for written channee to 15751 20 2226

Delivered By: (Circle One)



Lush!

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

manique cueto & white buffalo.com	Time:	
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Fax Result: Yes No Add'I Phone #:	MOMON MAIN	7
	Relinquished By: Received By: R	Relingui
20 days after completion of the applicable incurred by client, its subsidiaries,	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 darnages, including without firritation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	analyses. All a service. In no
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Phone #: 515-738-0424	Project Location: 11 0 0 00 00 1 Phone #: 515	Project
D: 88240	Project Name: State: NM Zip: 88240	Project
	ject #: Project Owner: City: Hobbs	Project #:
(E. Broadway	one #: Fax #: Address: 407	Phone #:
	State: Zip:	City:
Company: White Burks lo Env.		Address:
	P.O. #:	Project
LTO ANALYSIS REQUEST	Justina Titulium BIL	compa
V.		2



April 24, 2019

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

RE: MORRIS BOYD FED COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 04/22/19 15:50.

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:

04/22/2019

Sampling Date:

04/17/2019

Reported:

04/24/2019

Sampling Type:

Soil

True Value QC

200

200

RPD

8.99

7.33

Qualifier

Project Name:

MORRIS BOYD FED COM #1H

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

Project Number: Project Location:

Analyte

GRO C6-C10*

DRO >C10-C28*

NONE GIVEN

Sample ID: SW 1 - 2 (H901436-01)

BTEX 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	04/23/2019	ND	1.94	97.2	2.00	4.63	
Toluene*	<0.050	0.050	04/23/2019	ND	1.97	98.5	2.00	1.38	
Ethylbenzene*	<0.050	0.050	04/23/2019	ND	1.99	99.5	2.00	1.40	
Total Xylenes*	<0.150	0.150	04/23/2019	ND	5.69	94.9	6.00	0.526	
Total BTEX	<0.300	0.300	04/23/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	81.7 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	80.0	16.0	04/23/2019	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					

Method Blank

ND

ND

ND

BS

213

203

% Recovery

107

101

Analyzed

04/23/2019

04/23/2019

04/23/2019

EXT DRO >C28-C36	<10.0	10.0
Surrogate: 1-Chlorooctane	105 %	41-142
Surrogate: 1-Chlorooctadecane	100 %	37.6-147

Result

<10.0

<10.0

Reporting Limit

10.0

10.0

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Celeg D. Freene



Analytical Results For:

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

Received:

BTEX 8021B

04/22/2019

Sampling Date:

04/17/2019

Reported:

04/24/2019

Sampling Type:

Soil

Project Name:

MORRIS BOYD FED COM #1H

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

Project Number:

NONE GIVEN

mg/kg

Project Location:

NONE GIVEN

Sample ID: SW 2 - 2 (H901436-02)

	91	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/23/2019	ND	1.94	97.2	2.00	4.63	
Toluene*	<0.050	0.050	04/23/2019	ND	1.97	98.5	2.00	1.38	
Ethylbenzene*	<0.050	0.050	04/23/2019	ND	1.99	99.5	2.00	1.40	
Total Xylenes*	<0.150	0.150	04/23/2019	ND	5.69	94.9	6.00	0.526	
Total BTEX	<0.300	0.300	04/23/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	86.6	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/23/2019	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	04/23/2019	ND	213	107	200	8.99	
DRO >C10-C28*	<10.0	10.0	04/23/2019	ND	203	101	200	7.33	
EXT DRO >C28-C36	<10.0	10.0	04/23/2019	ND					
Surrogate: 1-Chlorooctane	106 9	% 41-142	,						
Surrogate: 1-Chlorooctadecane	101 9	% 37.6-14	7						

Analyzed By: MS

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

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

Received:

BTEX 8021B

04/22/2019

Sampling Date:

04/17/2019

Reported:

04/24/2019

Sampling Type: Soil

Project Name:

MORRIS BOYD FED COM #1H

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

Project Number: Project Location:

NONE GIVEN

mg/kg

99.7%

37.6-147

Sample ID: SW 3 - 2 (H901436-03)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/23/2019	ND	1.94	97.2	2.00	4.63	
Toluene*	<0.050	0.050	04/23/2019	ND	1.97	98.5	2.00	1.38	
Ethylbenzene*	<0.050	0.050	04/23/2019	ND	1.99	99.5	2.00	1.40	
Total Xylenes*	<0.150	0.150	04/23/2019	ND	5.69	94.9	6.00	0.526	
Total BTEX	<0.300	0.300	04/23/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.9 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	128	16.0	04/23/2019	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	04/23/2019	ND	213	107	200	8.99	
DRO >C10-C28*	<10.0	10.0	04/23/2019	ND	203	101	200	7.33	
EXT DRO >C28-C36	<10.0	10.0	04/23/2019	ND					
Surrogate: 1-Chlorooctane	104 %	6 41-142							

Analyzed By: MS

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Analytical Results For:

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

Received:

04/22/2019

Sampling Date:

04/17/2019

Reported:

04/24/2019

Sampling Type:

Soil

Project Name:

MORRIS BOYD FED COM #1H

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

Project Number:

NONE GIVEN

Project Location:

NONE GIVEN

Sample ID: SW 4 - 2 (H901436-04)

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	04/23/2019	ND	1.94	97.2	2.00	4.63	
Toluene*	<0.050	0.050	04/23/2019	ND	1.97	98.5	2.00	1.38	
Ethylbenzene*	<0.050	0.050	04/23/2019	ND	1.99	99.5	2.00	1.40	
Total Xylenes*	<0.150	0.150	04/23/2019	ND	5.69	94.9	6.00	0.526	
Total BTEX	<0.300	0.300	04/23/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 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	04/23/2019	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	04/23/2019	ND	213	107	200	8.99	
DRO >C10-C28*	<10.0	10.0	04/23/2019	ND	203	101	200	7.33	
EXT DRO >C28-C36	<10.0	10.0	04/23/2019	ND					
Surrogate: 1-Chlorooctane	99.7	% 41-142	?						
Surrogate: 1-Chlorooctadecane	96.9	% 37.6-14	7						

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Celeg D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

Relinquished By:

Date: 4-22-19
Time: 55,50
Date:

Received By:

Phone Result: | Yes | No | Add'! Phone #:
Fax Result: | Yes | No | Add'! Fax #:
REMARKS:
Remarks: | No | Add'! Fax #:
Remarks: | No | Add'! Phone #:
Remarks: | N

Received By:

Time:

Relinquished By:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

		The same of the sa	
Project Manager: Agom	4 mathamas	#	
Address:		Company: White Butto lo Env.	
City:	State: Zip:	Attn:	
Phone #:	Fax#:	Address: 407 E. Broadway	
Project #:	Project Owner:	city: Hobbas	,
Project Name:		State: NM Zip: 88240	
Project Location:	7-20 B BS	Phone #: 515-738-0424)
Sampler Name:		Fax #: 575-738-0430	
FOR LAB USE ONLY	MATRIX	PRESERV, SAMPLING	65-45
Lab I.D. Sam	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: DA	Chloric BTEX TPH
1001-9	X	K 9/119 9:27	\(\rangle \rangle \ran
0 0 WOLD	X	13:0	
2 VW2-8	X	2:01	7
7 007-0	×	× (0.5)	
DI TANTA NOTTH I STEEL AND DESCRIPTION OF THE PROPERTY OF THE	DEADE NOTE: Linking and Demonsor Devices in the second sec		

1

7.10

Cott

Sample Condition
Cool Intact
Pres Pres
No No

40

CHECKED BY: (Initials)

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)



May 08, 2019

JERRY MATTHEWS WHITE BUFFALO 8908 YALE AVE #210 TULSA, OK 74137

RE: MORRIS BOYD FED COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 05/02/19 16:05.

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 JERRY MATTHEWS 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

05/02/2019

Sampling Date:

04/26/2019

Reported:

05/08/2019

Sampling Type:

Soil

Project Name:

MORRIS BOYD FED COM #1H

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

Project Number: Project Location:

NONE GIVEN

Sample ID: SP 9 - 34' (H901597-01)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	05/07/2019	ND	2.07	103	2.00	0.266	
Toluene*	<0.050	0.050	05/07/2019	ND	2.17	108	2.00	1.44	
Ethylbenzene*	<0.050	0.050	05/07/2019	ND	2.07	104	2.00	0.912	
Total Xylenes*	<0.150	0.150	05/07/2019	ND	6.33	106	6.00	0.408	
Total BTEX	<0.300	0.300	05/07/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8400	16.0	05/07/2019	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	05/06/2019	ND	195	97.7	200	1.90	
DRO >C10-C28*	<10.0	10.0	05/06/2019	ND	201	101	200	10.0	
EXT DRO >C28-C36	<10.0	10.0	05/06/2019	ND					
Surrogate: 1-Chlorooctane	98.4	% 41-142	!						
Surrogate: 1-Chlorooctadecane	111 9	% 37.6-14	7						

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Analytical Results For:

WHITE BUFFALO JERRY MATTHEWS 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

05/02/2019

Sampling Date:

04/30/2019

Reported:

05/08/2019

Sampling Type:

Soil

Project Name:

MORRIS BOYD FED COM #1H

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

Project Number: Project Location: NONE GIVEN

NONE GIVEN

Sample ID: SP 1 - 22' (H901597-02)

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	05/07/2019	ND	2.07	103	2.00	0.266	
Toluene*	<0.050	0.050	05/07/2019	ND	2.17	108	2.00	1.44	
Ethylbenzene*	<0.050	0.050	05/07/2019	ND	2.07	104	2.00	0.912	
Total Xylenes*	<0.150	0.150	05/07/2019	ND	6.33	106	6.00	0.408	
Total BTEX	<0.300	0.300	05/07/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	05/07/2019	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	05/06/2019	ND	195	97.7	200	1.90	
DRO >C10-C28*	<10.0	10.0	05/06/2019	ND	201	101	200	10.0	
EXT DRO >C28-C36	<10.0	10.0	05/06/2019	ND					
Surrogate: 1-Chlorooctane	96.7 9	% 41-142	!						
Surrogate: 1-Chlorooctadecane	108 %	6 37.6-14	7						

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Analytical Results For:

WHITE BUFFALO JERRY MATTHEWS 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

RTFY 8021R

05/02/2019

Sampling Date:

04/29/2019

Reported:

05/08/2019

Sampling Type:

Soil

Project Name:

MORRIS BOYD FED COM #1H

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

Project Number:

NONE GIVEN

ma/ka

Project Location:

NONE GIVEN

Sample ID: SP 4 - 26' (H901597-03)

B1EX 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	05/07/2019	ND	2.07	103	2.00	0.266	
Toluene*	<0.050	0.050	05/07/2019	ND	2.17	108	2.00	1.44	
Ethylbenzene*	<0.050	0.050	05/07/2019	ND	2.07	104	2.00	0.912	
Total Xylenes*	<0.150	0.150	05/07/2019	ND	6.33	106	6.00	0.408	
Total BTEX	<0.300	0.300	05/07/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1380	16.0	05/07/2019	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	05/06/2019	ND	195	97.7	200	1.90	
DRO >C10-C28*	<10.0	10.0	05/06/2019	ND	201	101	200	10.0	
EXT DRO >C28-C36	<10.0	10.0	05/06/2019	ND					
Surrogate: 1-Chlorooctane	95.9	% 41-142							
Surrogate: 1-Chlorooctadecane	107 9	% 37.6-14	7						

Analyzed By: me

Cardinal Laboratories

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Analytical Results For:

WHITE BUFFALO JERRY MATTHEWS 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

05/02/2019

Sampling Date:

04/29/2019

Reported:

05/08/2019

Sampling Type:

Soil

Project Name:

MORRIS BOYD FED COM #1H

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

Project Number:

NONE GIVEN

Project Location:

NONE GIVEN

Sample ID: SP 7 - 28' (H901597-04)

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	05/07/2019	ND	2.07	103	2.00	0.266	
Toluene*	<0.050	0.050	05/07/2019	ND	2.17	108	2.00	1.44	
Ethylbenzene*	<0.050	0.050	05/07/2019	ND	2.07	104	2.00	0.912	
Total Xylenes*	<0.150	0.150	05/07/2019	ND	6.33	106	6.00	0.408	
Total BTEX	<0.300	0.300	05/07/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/07/2019	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	05/06/2019	ND	195	97.7	200	1.90	
DRO >C10-C28*	<10.0	10.0	05/06/2019	ND	201	101	200	10.0	
EXT DRO >C28-C36	<10.0	10.0	05/06/2019	ND					
Surrogate: 1-Chlorooctane	92.6	% 41-142	•						
Surrogate: 1-Chlorooctadecane	103	% 37.6-14	7						

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Celeg D. Freene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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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

novamber	1 e Loveum		ANALYSIS REQUEST	
Project Manager: Classes - Mothers		P.O. #:		
Address:		Company: White Buffolo Env.	DV.	
City: State:	Zip:	Attn:		50
Phone #: Fax #:	2.00	Address: 407 E. Broadway		
Project #: Project Owner:	vner:	city: Hobbas		
Project Name: MOMMS BOUID Fed	Com IH	State: NH Zip: 88240		
Project Location:		Phone #: 515-738-0424		
Sampler Name:	110 2	Fax #: 575-738-0430		
FOR LAB USE ONLY	MATRIX			
	ERS ATER		eric Ex H	117 x 0 x
H901S97	(G)RAB OR # CONTAIN GROUNDW. WASTEWAT SOIL OIL SLUDGE	OTHER: ACID/BASE: CE/COOL OTHER: DATI		
SP 9 34		4/26/19 3:40	2 9 9	
200	<	43019 9:40	< < < < < < < < < < < < < < < < < < <	
100 NO. C.		पंक्षित वः ३०	2 2 7	
451 1 28.	· v	立/201日 第 30	7 4 7	
PLEASE NOTE: Labinity and Damages. Cardina's lability 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 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 application of the a	y for any claim arising whether based in contract all be deemed waived unless made in writing and	or tort, shall be limited to the amount paid by the client for the received by Cardinal within 30 days after completion of the	the e applicable	
affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	r by Cardinal, regardless of whether such claim is	s based upon any of the above stated reasons or otherwise	3.	

Relinquished By Sampler - UPS - Bus - Other: Delivered By: (Circle One) 5-2-19 Time: :05 Date: 5.90 Time: 457 Sample Condition
Cool Intact
Pres Pres
No No to CHECKED BY: (Initials) Phone Result:
Fax Result:
REMARKS: notalie glodden & white buffalo. com movique cueto & white buffalo. com tracijennings @ white buffalo. com Katlynn.montanez@whitebuffalo.com ☐ Yes □ No Add'l Phone #:



May 15, 2019

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

RE: MORRIS BOYD FED COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 05/14/19 15:00.

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

05/14/2019

Sampling Date:

05/11/2019

Reported:

05/15/2019

Sampling Type:

Soil

Project Name:

MORRIS BOYD FED COM #1H

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

Project Number:

NONE GIVEN

Project Location:

NONE GIVEN

ma/ka

Sample ID: ESW 1 (H901752-01)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2019	ND	1.94	97.1	2.00	0.954	
Toluene*	<0.050	0.050	05/15/2019	ND	2.05	103	2.00	0.861	
Ethylbenzene*	<0.050	0.050	05/15/2019	ND	1.97	98.4	2.00	0.174	
Total Xylenes*	<0.150	0.150	05/15/2019	ND	5.93	98.8	6.00	1.12	
Total BTEX	<0.300	0.300	05/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.5	% 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	48.0	16.0	05/15/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2019	ND	195	97.7	200	3.22	
DRO >C10-C28*	<10.0	10.0	05/15/2019	ND	183	91.5	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/15/2019	ND					
Surrogate: 1-Chlorooctane	83.8	% 41-142	,						
Surrogate: 1-Chlorooctadecane	87.2	% 37.6-14	7						

Analyzed By me

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

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

Received:

BTEX 8021B

05/14/2019

Sampling Date:

05/11/2019

Reported:

05/15/2019

Sampling Type:

Soil

Project Name:

MORRIS BOYD FED COM #1H

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

Project Number:

NONE GIVEN

mg/kg

Project Location:

NONE GIVEN

Sample ID: ESW 2 (H901752-02)

	9/	9	7	7:					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2019	ND	1.94	97.1	2.00	0.954	
Toluene*	<0.050	0.050	05/15/2019	ND	2.05	103	2.00	0.861	
Ethylbenzene*	<0.050	0.050	05/15/2019	ND	1.97	98.4	2.00	0.174	
Total Xylenes*	<0.150	0.150	05/15/2019	ND	5.93	98.8	6.00	1.12	
Total BTEX	<0.300	0.300	05/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 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	112	16.0	05/15/2019	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2019	ND	195	97.7	200	3.22	
DRO >C10-C28*	<10.0	10.0	05/15/2019	ND	183	91.5	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/15/2019	ND					
Surrogate: 1-Chlorooctane	91.5	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	95.3	% 37.6-14	7						

Analyzed By: ms

Cardinal Laboratories *=Accredited Analyte

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Celeg 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:

05/14/2019

Sampling Date:

05/11/2019

Reported:

05/15/2019

Sampling Type: Soil

Project Name:

MORRIS BOYD FED COM #1H

Sampling Condition:

Cool & Intact

Project Number: Project Location:

NONE GIVEN

96.6 %

37.6-147

Sample Received By:

Tamara Oldaker

Sample ID: ESW 3 (H901752-03)

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	05/15/2019	ND	1.94	97.1	2.00	0.954	
Toluene*	< 0.050	0.050	05/15/2019	ND	2.05	103	2.00	0.861	
Ethylbenzene*	< 0.050	0.050	05/15/2019	ND	1.97	98.4	2.00	0.174	
Total Xylenes*	<0.150	0.150	05/15/2019	ND	5.93	98.8	6.00	1.12	
Total BTEX	<0.300	0.300	05/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 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	32.0	16.0	05/15/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2019	ND	195	97.7	200	3.22	
DRO >C10-C28*	<10.0	10.0	05/15/2019	ND	183	91.5	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/15/2019	ND					
Surrogate: 1-Chlorooctane	92.9	% 41-142							

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Surrogate: 1-Chlorooctadecane

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Celeg D. Freene



Analytical Results For:

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

Received:

05/14/2019

Sampling Date:

05/11/2019

Soil

Reported:

05/15/2019

Sampling Type:

Project Name:

MORRIS BOYD FED COM #1H

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

Project Number:

NONE GIVEN

Project Location:

NONE GIVEN

Sample ID: ESW 4 (H901752-04)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2019	ND	1.94	97.1	2.00	0.954	
Toluene*	<0.050	0.050	05/15/2019	ND	2.05	103	2.00	0.861	
Ethylbenzene*	<0.050	0.050	05/15/2019	ND	1.97	98.4	2.00	0.174	
Total Xylenes*	<0.150	0.150	05/15/2019	ND	5.93	98.8	6.00	1.12	
Total BTEX	<0.300	0.300	05/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3 %	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	96.0	16.0	05/15/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2019	ND	195	97.7	200	3.22	
DRO >C10-C28*	<10.0	10.0	05/15/2019	ND	183	91.5	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/15/2019	ND					
Surrogate: 1-Chlorooctane	93.2 9	6 41-142	?						
Surrogate: 1-Chlorooctadecane	97.2 %	6 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:

RTFY 8021R

05/14/2019

Sampling Date:

05/11/2019

Reported:

05/15/2019

Sampling Type:

Soil

Project Name:

MORRIS BOYD FED COM #1H

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

Project Number:

NONE GIVEN

Project Location:

NONE GIVEN

ma/ka

Sample ID: NSW 1 (H901752-05)

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	05/15/2019	ND	1.94	97.1	2.00	0.954	
Toluene*	<0.050	0.050	05/15/2019	ND	2.05	103	2.00	0.861	
Ethylbenzene*	<0.050	0.050	05/15/2019	ND	1.97	98.4	2.00	0.174	
Total Xylenes*	<0.150	0.150	05/15/2019	ND	5.93	98.8	6.00	1.12	
Total BTEX	<0.300	0.300	05/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 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	272	16.0	05/15/2019	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2019	ND	195	97.7	200	3.22	
DRO >C10-C28*	<10.0	10.0	05/15/2019	ND	183	91.5	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/15/2019	ND					
Surrogate: 1-Chlorooctane	89.4	% 41-142	•						
Surrogate: 1-Chlorooctadecane	92.9	% 37.6-14	7						

Analyzed By: me

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

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

Received:

RTFY 8021R

05/14/2019 05/15/2019

Reported: Project Name:

MORRIS BOYD FED COM #1H

Project Number:

NONE GIVEN

ma/ka

Project Location:

NONE GIVEN

Sampling Date: 05/11/2019

Sampling Type:

Sampling Condition: Sample Received By: Cool & Intact

Soil

Tamara Oldaker

Sample ID: NSW 2 (H901752-06)

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	05/15/2019	ND	1.94	97.1	2.00	0.954	
Toluene*	<0.050	0.050	05/15/2019	ND	2.05	103	2.00	0.861	
Ethylbenzene*	<0.050	0.050	05/15/2019	ND	1.97	98.4	2.00	0.174	
Total Xylenes*	<0.150	0.150	05/15/2019	ND	5.93	98.8	6.00	1.12	
Total BTEX	<0.300	0.300	05/15/2019	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	96.0	16.0	05/15/2019	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/15/2019	ND	195	97.7	200	3.22	
DRO >C10-C28*	<10.0	10.0	05/15/2019	ND	183	91.5	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/15/2019	ND					
Surrogate: 1-Chlorooctane	93.7	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	98.3	% 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:

BTEX 8021B

05/14/2019

Sampling Date:

05/11/2019

Reported:

05/15/2019

Sampling Type:

Soil

Project Name:

MORRIS BOYD FED COM #1H

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

Project Number: Project Location: NONE GIVEN NONE GIVEN

mg/kg

Sample ID: SSW 1 (H901752-07)

DIEX COLLE	9/	119	Andryzo	u by: 1115					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2019	ND	1.94	97.1	2.00	0.954	
Toluene*	<0.050	0.050	05/15/2019	ND	2.05	103	2.00	0.861	
Ethylbenzene*	<0.050	0.050	05/15/2019	ND	1.97	98.4	2.00	0.174	
Total Xylenes*	<0.150	0.150	05/15/2019	ND	5.93	98.8	6.00	1.12	
Total BTEX	<0.300	0.300	05/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.1	% 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
Chloride	<16.0	16.0	05/15/2019	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	05/15/2019	ND	195	97.7	200	3.22	
DRO >C10-C28*	<10.0	10.0	05/15/2019	ND	183	91.5	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/15/2019	ND					
Surrogate: 1-Chlorooctane	88.4	% 41-142	ı						

Analyzed By: ms

Surrogate: 1-Chlorooctadecane

92.2 %

37.6-147

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Celeg 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:

05/14/2019

Sampling Date:

05/11/2019

Reported:

05/15/2019

Sampling Type:

Soil

Project Name:

MORRIS BOYD FED COM #1H

Sampling Condition:

Cool & Intact

Project Number: Project Location: NONE GIVEN NONE GIVEN Sample Received By:

Tamara Oldaker

Sample ID: SSW 2 (H901752-08)

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	05/15/2019	ND	1.94	97.1	2.00	0.954	
Toluene*	< 0.050	0.050	05/15/2019	ND	2.05	103	2.00	0.861	
Ethylbenzene*	< 0.050	0.050	05/15/2019	ND	1.97	98.4	2.00	0.174	
Total Xylenes*	<0.150	0.150	05/15/2019	ND	5.93	98.8	6.00	1.12	
Total BTEX	<0.300	0.300	05/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	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	32.0	16.0	05/15/2019	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	05/15/2019	ND	195	97.7	200	3.22	
DRO >C10-C28*	<10.0	10.0	05/15/2019	ND	183	91.5	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/15/2019	ND					
Surrogate: 1-Chlorooctane	85.1 9	% 41-142	1						
Surrogate: 1-Chlorooctadecane	87.4 9	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

05/14/2019

Sampling Date:

05/11/2019

Reported:

05/15/2019

Sampling Type:

Soil

Project Name:

MORRIS BOYD FED COM #1H

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

Project Number: Project Location: NONE GIVEN

mg/kg

NONE GIVEN

Sample ID: WSW 1 (H901752-09)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2019	ND	1.94	97.1	2.00	0.954	
Toluene*	<0.050	0.050	05/15/2019	ND	2.05	103	2.00	0.861	
Ethylbenzene*	<0.050	0.050	05/15/2019	ND	1.97	98.4	2.00	0.174	
Total Xylenes*	<0.150	0.150	05/15/2019	ND	5.93	98.8	6.00	1.12	
Total BTEX	<0.300	0.300	05/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Chloride, SM4500Cl-B Analyte	mg / Result	Reporting Limit	Analyze Analyzed	d By: AC Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
			<u> </u>	-	BS 400	% Recovery	True Value QC 400	RPD 0.00	Qualifier
Analyte	Result	Reporting Limit	Analyzed 05/15/2019	Method Blank		•			Qualifier
Analyte Chloride	Result	Reporting Limit	Analyzed 05/15/2019	Method Blank		•			Qualifier Qualifier
Analyte Chloride TPH 8015M	Result 224 mg/	Reporting Limit 16.0	Analyzed 05/15/2019 Analyze	Method Blank ND d By: MS	400	100	400	0.00	

ND

Analyzed By: ms

Surrogate: 1-Chlorooctane

87.5 %

<10.0

41-142

05/15/2019

10.0

Surrogate: 1-Chlorooctadecane

EXT DRO >C28-C36

90.1 %

37.6-147

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

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

Received:

RTFY 8021R

05/14/2019

Sampling Date:

05/11/2019

Reported:

05/15/2019

Sampling Type:

Soil

Project Name:

MORRIS BOYD FED COM #1H

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

Project Number: Project Location:

NONE GIVEN

ma/ka

76.3 %

37.6-147

Sample ID: WSW 2 (H901752-10)

B1EX 8021B	mg/I	(g	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2019	ND	1.94	97.1	2.00	0.954	
Toluene*	<0.050	0.050	05/15/2019	ND	2.05	103	2.00	0.861	
Ethylbenzene*	<0.050	0.050	05/15/2019	ND	1.97	98.4	2.00	0.174	
Total Xylenes*	<0.150	0.150	05/15/2019	ND	5.93	98.8	6.00	1.12	
Total BTEX	<0.300	0.300	05/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/l	кg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/15/2019	ND	400	100	400	0.00	
TPH 8015M	mg/l	кg	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	05/15/2019	ND	195	97.7	200	3.22	
DRO >C10-C28*	<10.0	10.0	05/15/2019	ND	183	91.5	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/15/2019	ND					
Surrogate: 1-Chlorooctane	73.4 %	6 41-142	!						

Analyzed By: me

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=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:

05/14/2019

Sampling Date:

05/11/2019

Reported:

05/15/2019

Sampling Type:

Soil

Project Name:

MORRIS BOYD FED COM #1H

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

Project Number:

NONE GIVEN

Project Location:

NONE GIVEN

Sample ID: WSW 3 (H901752-11)

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	05/15/2019	ND	1.94	97.1	2.00	0.954	
Toluene*	< 0.050	0.050	05/15/2019	ND	2.05	103	2.00	0.861	
Ethylbenzene*	< 0.050	0.050	05/15/2019	ND	1.97	98.4	2.00	0.174	
Total Xylenes*	<0.150	0.150	05/15/2019	ND	5.93	98.8	6.00	1.12	
Total BTEX	<0.300	0.300	05/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.7 9	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	32.0	16.0	05/15/2019	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	05/15/2019	ND	195	97.7	200	3.22	
DRO >C10-C28*	<10.0	10.0	05/15/2019	ND	183	91.5	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/15/2019	ND					
Surrogate: 1-Chlorooctane	87.8 9	6 41-142	?						
Surrogate: 1-Chlorooctadecane	91.0 9	6 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

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

Received:

BTEX 8021B

05/14/2019

Sampling Date:

05/11/2019

Reported:

05/15/2019

Sampling Type:

Soil

Project Name:

MORRIS BOYD FED COM #1H

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

Project Number:

NONE GIVEN

mg/kg

Project Location:

NONE GIVEN

Sample ID: WSW 4 (H901752-12)

	9/	9	7	7:					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2019	ND	1.94	97.1	2.00	0.954	
Toluene*	<0.050	0.050	05/15/2019	ND	2.05	103	2.00	0.861	
Ethylbenzene*	<0.050	0.050	05/15/2019	ND	1.97	98.4	2.00	0.174	
Total Xylenes*	<0.150	0.150	05/15/2019	ND	5.93	98.8	6.00	1.12	
Total BTEX	<0.300	0.300	05/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.6	% 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	64.0	16.0	05/15/2019	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	05/15/2019	ND	195	97.7	200	3.22	
DRO >C10-C28*	<10.0	10.0	05/15/2019	ND	183	91.5	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/15/2019	ND					
Surrogate: 1-Chlorooctane	88.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	92.0	% 37.6-14	7						

Analyzed By: ms

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Freene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

Relinquished By:

Relinquished By:

performance of services hereunder by Cardinal, regardless of whether su

Received By:

Date: 5.14-19

Date:

Received By:

REMARKS: Phone Result: Fax Result:

☐ Yes

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

natalie gladden & white buffalo. com residue cue to to white buttoil com

Time:

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 3<u>9</u>3-2476

Rush

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writ service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interryp Phone #: City: Sampler Name: Project Manager: Project Location: Project Name: Address: Project #: Company Name: H401752 Lab I.D. 00 SUSTINGUES OF THE SUSTINGUES O SC SC novamon CAMBELLON TO THE PRICE OF Sample I.D Fax #: Project Owner: State: Tetroleum, Pal Zip: 222222 (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER whether based in contract or tort, shall be limited to the amount paid by the client for the unless made in writing and received by Cardinal within 30 days after completion of the applicable WASTEWATER MATRIX OIL SLUDGE ns, loss of use, or loss of profits incurred by client, its subsidiaries, City: OTHER State: NM Zip: 88240 P.O. #: Fax # 575-738-0430 Phone #: 515-138-0424 Address: 407 E. Broady Aftn: Company: Little Barbon ACID/BASE: Hobba Boba ICE / COOL OTHER: 00 SAMPLING 3:29 8:5 TIME 000 ANALYSIS REQUEST

S

30

Cool Intact
Yes Yes Sample Condition

CHECKED BY:

Katlynn. Mantainez Ownite butters com

(Initials)

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

aboratories

10f & Bush

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Project Manager: 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) <u>39</u>3-2476 Lordandra CANDELLON - NOTHING State: tetroleum.

P.O. #:

3)8 (9)

ANALYSIS

Company: White BuffaloEnv.

Address:

Phone #: Fax #:	Y	Address: 407 C. Broodway	
Project #: Project Owner:	,	city: Hobbs	
Project Name:		State: NM Zip: 88240	
Project Location: Molfis Social Re	1 Comply	Phone #: 515-138-0424)
Sampler Name: ALUND MOR	110/02	Fax #: 575-738-0430	
FOR LAB USE ONLY	MATRIX		
9	RS TER		EX.
Lab I.D. Sample I.D.		O/BASE: COOL ER:	BTP
H9017572	# CO		
1 WW	×	1 5/1/19 3:53	XXX
102 BUSWS	X	X 7:00 X	\ X X
11 5 WW3	×	X 1, 4:12 X	KK
12.9 WSW4	×	X 22:h X X	ヘ ド ド
792			
received the country and be under a sound and the client for the	iny claim arising whether based in contract	or tort, shall be limited to the amount paid by the client for the	

Delivered By: (Circle One) Time: Received By: Sample Condition based upon any of the above stated reasons or otherwise.

Phone Result:
Fax Result:
REMARKS: CHECKED BY: (Initials) Email:

natalie gladden & white buffalo. com Scale the to but he buttale com □ Yes □ No Add'l Phone #:

Kathan monknezownie Burlaw Com

Cool Intact
A Yes A Yes
No No

Sampler - UPS - Bus - Other:



May 15, 2019

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

RE: MORRIS BOYD FED COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 05/14/19 15:00.

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

05/14/2019

Sampling Date:

05/14/2019

Reported:

05/15/2019

Sampling Type:

Soil

Project Name:

Sampling Condition: Sample Received By:

Cool & Intact Tamara Oldaker

Project Number:

NONE GIVEN

MORRIS BOYD FED COM #1H

Project Location:

NONE GIVEN

ma/ka

Sample ID: BH # 3 (H901748-01)

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	05/14/2019	ND	1.57	78.5	2.00	0.230	
Toluene*	<0.050	0.050	05/14/2019	ND	1.81	90.4	2.00	0.387	
Ethylbenzene*	<0.050	0.050	05/14/2019	ND	1.82	91.2	2.00	0.480	
Total Xylenes*	<0.150	0.150	05/14/2019	ND	5.76	96.0	6.00	0.276	
Total BTEX	<0.300	0.300	05/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	86.8	% 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	6240	16.0	05/15/2019	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	05/15/2019	ND	206	103	200	0.00242	
DRO >C10-C28*	<10.0	10.0	05/15/2019	ND	206	103	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	05/15/2019	ND					
Surrogate: 1-Chlorooctane	98.9	% 41-142	,						
Surrogate: 1-Chlorooctadecane	105 9	% 37.6-14	7						

Applymed By MC

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

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

Received:

BTEX 8021B

05/14/2019

Sampling Date:

05/14/2019

Reported:

05/15/2019

Sampling Type: Soil

15/14/2019

Project Name:

MORRIS BOYD FED COM #1H

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

Project Number:

NONE GIVEN

Project Location:

NONE GIVEN

mg/kg

Sample ID: BH # 5 (H901748-02)

DILX OUZID	iiig/	, kg	Andryzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/14/2019	ND	1.57	78.5	2.00	0.230	
Toluene*	<0.050	0.050	05/14/2019	ND	1.81	90.4	2.00	0.387	
Ethylbenzene*	<0.050	0.050	05/14/2019	ND	1.82	91.2	2.00	0.480	
Total Xylenes*	<0.150	0.150	05/14/2019	ND	5.76	96.0	6.00	0.276	
Total BTEX	<0.300	0.300	05/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 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	5040	16.0	05/15/2019	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	05/15/2019	ND	206	103	200	0.00242	
DRO >C10-C28*	<10.0	10.0	05/15/2019	ND	206	103	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	05/15/2019	ND					
Surrogate: 1-Chlorooctane	98.4	% 41-142							
Surrogate: 1-Chlorooctadecane	104	% 37.6-14	7						

Analyzed By: MS

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

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

Received:

BTEX 8021B

05/14/2019

Sampling Date:

05/14/2019

Reported:

05/15/2019

Sampling Type: Soil

Project Name:

MORRIS BOYD FED COM #1H

Sampling Condition:

Cool & Intact

Project Number: Project Location: NONE GIVEN NONE GIVEN

mg/kg

Sample Received By:

Tamara Oldaker

Sample ID: BH # 1 (H901748-03)

	9/	9							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/14/2019	ND	1.57	78.5	2.00	0.230	
Toluene*	<0.050	0.050	05/14/2019	ND	1.81	90.4	2.00	0.387	
Ethylbenzene*	<0.050	0.050	05/14/2019	ND	1.82	91.2	2.00	0.480	
Total Xylenes*	<0.150	0.150	05/14/2019	ND	5.76	96.0	6.00	0.276	
Total BTEX	<0.300	0.300	05/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	77.7	% 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	128	16.0	05/15/2019	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	05/15/2019	ND	206	103	200	0.00242	
DRO >C10-C28*	<10.0	10.0	05/15/2019	ND	206	103	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	05/15/2019	ND					
Surrogate: 1-Chlorooctane	91.2	% 41-142							
Surrogate: 1-Chlorooctadecane	95.4	% 37.6-14	7						

Analyzed By: MS

Cardinal Laboratories

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Analytical Results For:

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

Received:

BTEX 8021B

05/14/2019

Sampling Date:

05/14/2019

Reported:

05/15/2019

Sampling Type: Soil

Project Name:

MORRIS BOYD FED COM #1H

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

Project Number:

NONE GIVEN

mg/kg

Project Location:

NONE GIVEN

Sample ID: BH # 2 (H901748-04)

DILX GOZID	mg/	ng .	Andryzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/14/2019	ND	1.57	78.5	2.00	0.230	
Toluene*	<0.050	0.050	05/14/2019	ND	1.81	90.4	2.00	0.387	
Ethylbenzene*	<0.050	0.050	05/14/2019	ND	1.82	91.2	2.00	0.480	
Total Xylenes*	<0.150	0.150	05/14/2019	ND	5.76	96.0	6.00	0.276	
Total BTEX	<0.300	0.300	05/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 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	05/15/2019	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	05/15/2019	ND	206	103	200	0.00242	
DRO >C10-C28*	<10.0	10.0	05/15/2019	ND	206	103	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	05/15/2019	ND					
Surrogate: 1-Chlorooctane	90.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	96.7	% 37.6-14	7						

Analyzed By: MS

Cardinal Laboratories

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Analytical Results For:

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

Received:

05/14/2019

Sampling Date:

05/14/2019

Reported:

05/15/2019

Sampling Type:

Soil

Project Name:

MORRIS BOYD FED COM #1H

Sampling Condition:

Cool & Intact

Project Number: Project Location:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Sample ID: BH # 4 (H901748-05)

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	05/14/2019	ND	1.57	78.5	2.00	0.230	
Toluene*	<0.050	0.050	05/14/2019	ND	1.81	90.4	2.00	0.387	
Ethylbenzene*	<0.050	0.050	05/14/2019	ND	1.82	91.2	2.00	0.480	
Total Xylenes*	<0.150	0.150	05/14/2019	ND	5.76	96.0	6.00	0.276	
Total BTEX	<0.300	0.300	05/14/2019	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	688	16.0	05/15/2019	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	05/15/2019	ND	206	103	200	0.00242	
DRO >C10-C28*	<10.0	10.0	05/15/2019	ND	206	103	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	05/15/2019	ND					
Surrogate: 1-Chlorooctane	94.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	98.5	% 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:

05/14/2019

Sampling Date:

05/14/2019

Reported:

05/15/2019

Sampling Type:

Soil

Project Name:

MORRIS BOYD FED COM #1H

Sampling Condition:

Cool & Intact

Project Number: Project Location: NONE GIVEN NONE GIVEN Sample Received By:

Tamara Oldaker

Sample ID: BH COM. (H901748-06)

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	05/14/2019	ND	1.57	78.5	2.00	0.230	
Toluene*	<0.050	0.050	05/14/2019	ND	1.81	90.4	2.00	0.387	
Ethylbenzene*	<0.050	0.050	05/14/2019	ND	1.82	91.2	2.00	0.480	
Total Xylenes*	<0.150	0.150	05/14/2019	ND	5.76	96.0	6.00	0.276	
Total BTEX	<0.300	0.300	05/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	87.8 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	2520	16.0	05/15/2019	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	05/15/2019	ND	206	103	200	0.00242	
DRO >C10-C28*	<10.0	10.0	05/15/2019	ND	206	103	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	05/15/2019	ND					
Surrogate: 1-Chlorooctane	91.9 9	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	97.79	% 37.6-14	7						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

Date: Time:

Received By:

REMARKS:

ratalie. Gladden @ white buffalo.com Mangal Cueto @ whitebuffalo.com

Add'I Fax #: Add'I Phone #:

Phone Result: Fax Result:

Relinquished By:

Page 9 of 9 **ARDINAL** aboratories



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (5<u>7</u>5) 393-2326 FAX (57<u>5)</u> 393-24<u>7</u>6

Company Name: VICUSION WHOL	WW I		ANALYSIS REQUEST
Project Manager: Serry mo Hhus	P.(P.O. #:	
Address:	Co	company: White Buffalo	falo
City: State:	Zip: Attn:	n:	
Phone #: Fax #:	Ad	Address: 407 E Broadway	404
Project #: Project Owner:		city: Hobbas	
Project Name:	Str	State: N.H. Zip: 88240	
Project Location: MICIS TOUG LC (%)	41 C	Phone #: 515 138-0428	-28
Sampler Name:	Fa	Fax #: 575-738-6430	
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	
	RS TER		rd,
Lab I.D. Sample I.D.	(G)RAB OR (# CONTAINE GROUNDWA WASTEWAT SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER: PATE TI	Chlor BIEX TPh
54.50	5 · ×	X SIMIN S	0:11:0
つつちゃつ	~ ~	×	X X X X
V 25	-	× 10:	
C 24 20	5	7 = :	
O SY SY	7	×	72 × × ×
6 5H Cm.	-	7 2 2	X X X MI
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for a	V claim arising whether hared in contract or to		Single-facility in the second
analyses. All claims including those for negligence and any other cause whatsoever shall be deemed valued unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be fable for including those including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	leemed waived unless made in writing and receivithment for the without limitation, business interruptions, loss or the contraction of the contract	ved by Cardinal within 30 days after comple use, or loss of profits incurred by client, its	curativa una de la composición de compo
Relinquished By: Date: 11119 Received By:	Received By:	Phor	Phone Result: Yes No Add'l Phone #:

3.90

Sample Condition
Cool Intact
Pes Pes
No No

CHECKED BY: (Initials)

Katlynn.montonezownitoburtalo.cum

Sampler - UPS - Bus - Other: Delivered By: (Circle One) District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fc, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NAB1910937075	
District RP	2RP-5353	
Facility ID		
Application ID	pAB1910936795	_

Release Notification

			Ke	esponsi	ble Pa	rty	
Responsib	le Party Perc	ussion Petroleum			OGRIE	371755	
Contact Name Michael Martin				Contact Telephone (713) 429-4249			
Contact email Michael@percussionpetroleum.com			****	Incident # (areigned by OCD)			
Contact ma 919 Milam	ailing address Street, Suite	2475 Houston, T	X 77002				NAB1910937075
			Locatio	on of R	elease	Source	
atitude			32.62931 (NAD 83 in	decimal deg	Longitud grees to 5 de	ecimal places)	-104.44991
Site Name N	Morris Boyd 2	26 Fee Com #1H	—)————————————————————————————————————	T	Site Typ	e SWD Line	
Date Releas	e Discovered	3/27/2019				applicable) 30-015-38	962
Unit Letter	Section	Township	Range				
	26	198	25E	Eddy		ounty	
arface Own		Federal T	Nature ar	ıd Volu	ume of		
	Materia	l(s) Released (Select a	Nature ar	ıd Volu	ume of		Jumes provided belows
Crude O	Materia I	l(s) Released (Select a Volume Release	Nature ar	ıd Volu	ume of	Release fic justification for the volume Recove	lumes provided below) red (bbls)
	Materia I	Volume Release	Nature are that apply and attacked (bbls) and (bbls) and (bbls) 25 bbls	nd Volu	ume of	fic justification for the vo	red (bbls)
Crude O	Materia I	Volume Release Volume Release Is the concentrate	Nature are all that apply and attaced (bbls) and (bbls) and (bbls) 25 bbls ation of dissolved	nd Volu	ume of	Volume Recove	red (bbls)
Crude O	Materia Il I Water	Volume Release	Nature are all that apply and attaced (bbls) and (bbls) 25 bbls ation of dissolved >10,000 mg/l?	nd Volu	ume of	Volume Recover	red (bbls) red (bbls) 0 bbls
_ Crude Oi ☑ Producec	Materia il I Water	Volume Release Volume Release Is the concentrate produced water	Nature are that apply and attaced (bbls) and (bbls) 25 bbls tion of dissolved >10,000 mg/l?	nd Volu	ume of	Volume Recove Volume Recove Volume Recove	red (bbls) red (bbls) 0 bbls red (bbls)
☐ Crude Oi ☑ Producec ☐ Condensa	Materia Il I Water	Volume Released Volume Release Volume Release Is the concentrate produced water Volume Release	Nature are all that apply and attaced (bbls) and (bbls) 25 bbls ation of dissolved >10,000 mg/l? ad (bbls) ad (Mcf)	nd Volu	ume of	Volume Recover Volume Recover Volume Recover Volume Recover Volume Recover	red (bbls) red (bbls) 0 bbls red (bbls)

Form C-141 Page 2

State of New Mexico Oil Conservation Division

Incident ID	NAB1910937075
District RP	2RP-5353
Facility ID	
Application ID	pAB1910936795

was this a major	If YES, for what reason(s) does th	e responsible party consider this a major release?
release as defined by	Release of 25 bbls fluid.	1 programme a major release,
19.15.29.7(A) NMAC?		
⊠ Yes ☐ No		30 (
M 163 MINO		
		\$ P.
If YES, was immediate no	otice given to the OCD? By whom?	To whom? When and by what means (phone, email, etc)?
Yes, Michael Martin emai	iled Mike Bratcher (NMOCD) on 3/	28/2019 at 3:20 PM
	Initi	ial Response
The responsible p	arty must undertake the following actions im	mediately unless they could create a safety hazard that would result in injury
☐ The source of the release	ase has been stopped.	
The impacted area has	been secured to protect human heal	th and the environment
M All Gran Harridge and an	to been contained via the use of bern	ms or dikes, absorbent pads, or other containment devices.
	coverable materials have been remo	
If all the actions described	above have not been undertaken, ex	plain why:
Per 19 15 29 8 B (4) NMA	C the responsible marty was	
has begun, please attach a	narrative of actions to date. If ram	ence remediation immediately after discovery of a release. If remediation edial efforts have been successfully completed or if the release occurred
within a lined containment	area (see 19.15.29.11(A)(5)(a) NM.	AC), please attach all information needed for closure evaluation.
I hereby certify that the inform	ration given above in two and and	to by product an information needed for closure evaluation.
		to the best of my knowledge and understand that pursuant to OCD rules and se notifications and perform corrective actions for releases which may endanger
and/or regulations.	C-141 report does not relieve the opera	tor of responsibility for compliance with any other federal, state, or local laws
· ·		
Printed Name: Michael Ma	<u>artin</u>	Title: Production Engineer
Signature: Mi m		
signature. The year		Date: 4/4/2019
email: Michael@percussio	mpetroleum.com	Telephone: (712) 420 4240
	THE PARTY OF THE P	Telephone: _(713) 429-4249
OCD Only /		
C Comy	61	
Received by:	at Intamente,	Date: 4/19/2019
Z me	The second	

Form C-141 Page 3

State of New Mexico Oil Conservation Division

Incident ID	
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?	40-105 (ft bgs)				
Did this release impact groundwater or surface water?	☐ Yes ⊠ No				
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No				
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No				
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No				
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No				
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No				
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No				
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No				
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No				
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No				
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No				
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No				
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.					
Characterization Report Checklist: Each of the following items must be included in the report.					
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well 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 	S.				
☐ Topographic/Aerial maps ☐ Laboratory data including chain of custody					

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

Form C-141

Page 4

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: Natalie Gladden Title:Environmental and Regulatory Director Signature Date: 8/22/19 + 3 7 20 email: _ngladden@hungry-horse.com 575-390-6397
OCD Only Received by: Date:

Form C-141 Page 5

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.
 Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)
D.C. LD
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
Extents of contamination must be fully delineated.
Contamination does not cause an imminent risk to human health, the environment, or groundwater.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: Natalie Gladden Title: Environmental and Regulatory Director
Signature: Date: 8/22/19 + 3/17/20 email: _ngladden@hungry-horse.com Telephone:575-390-6397
email: _ngladden@hungry-horse.com Telephone:575-390-6397
OCD Only
Received by: Date:
Approved
Signature: Date:

Form C-141 Page 6 State of New Mexico
Oil Conservation Division

Incident ID	
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:	
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:	
rinted Name: Title:	