Received by OCD: 1/26/2023 10:18:23 AM Form C-141 State

State of New Mexico
Oil Conservation Division

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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 n	nust be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.11 NM	AC
Photographs of the remediated site prior to backfill or photos of the must be notified 2 days prior to liner inspection)	liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC Distr	ict 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 and regulations all operators are required to report and/or file certain release may endanger public health or the environment. The acceptance of a C-14 should their operations have failed to adequately investigate and remediate human health or the environment. In addition, OCD acceptance of a C-14 compliance with any other federal, state, or local laws and/or regulations. restore, reclaim, and re-vegetate the impacted surface area to the condition accordance with 19.15.29.13 NMAC including notification to the OCD we Printed Name: HUGO NAEGELE Title: MEMBER Signature: Date Maegelehugo@gmail.com Telephone: 575-390-12	se notifications and perform corrective actions for releases which 41 report by the OCD does not relieve the operator of liability e contamination that pose a threat to groundwater, surface water, 11 report does not relieve the operator of responsibility for The responsible party acknowledges they must substantially as that existed prior to the release or their final land use in then reclamation and re-vegetation are complete.
OCD Only	
Received by: OCD	Date:1/26/2023
Closure approval by the OCD does not relieve the responsible party of lial remediate contamination that poses a threat to groundwater, surface water, party of compliance with any other federal, state, or local laws and/or reg	human health, or the environment nor does not relieve the responsible
Closure Approved by: Ashley Maxwell	Date: 2/01/2023
Printed Name:Ashley Maxwell	Title: Environmental Specialist



Basin Alliance - Closure Plan

State AJ #1

API No. 30-025-28083

1RP-3680

Release Date: 6/13/2015

Unit G, Section 33, Township 18S, Range 36E



Hungry Horse, LLC

4024 Plains Highway

Lovington, NM 88260

December 19, 2019

New Mexico Energy, Minerals & Natural Resources
Oil Conservation Division, Environmental Bureau – District I
C/O Brad Billings
1625 N. French Drive
Hobbs, NM 88240

RE: Closure Report Request Basin Alliance, LLC State AJ #1 UL/G, S33, T28S, R36E API No. 30-025-28083

Dear Brad,

Basin Alliance originally retained White Buffalo Environmental to address the environmental concerns for the site detailed herein. The site was delineated by White Buffalo Environmental and later remediated by Hungry Horse, LLC.

The site is located in Lea County. The incident occurred during a severe rain and lightning storm on the evening of Saturday June 13th, of 2015. Not only did it burn down the facility but also caused a release of approximately 900bbls of produced water. The fluid was released onto the pad and pasture area as reported on the C141 that is attached herein. Although they did recover approximately 1150bbls of fluid, this fluid included not only the production fluids, but also rain water and water/chemical used to extinguish the fire. The visual surface stained area included the explosion release point that occurred at the facility which was lined and bermed. The bermed area was approximately 49,400 sq. ft. Two pooling areas were formed, one being on the south to southwest corner of the pad covering approximately 750 sq. ft. The area in the east of the pad covered approximately 1,575 sq. ft. The combined area of impact at the time of the release was 51,725 sq. ft.

The original workplan for this release was submitted and received on August 7th of 2015. With the following phases to be completed by Basin Alliance, this information is detailed herein:

Phase I: Work on the southwest corner of the location, to remediate the chloride impacted soils.

Phase II: Work on the southeast corner of the location to remediate the chloride impacted soils.

Phase III: Remediate the area three which was in the flow pattern 60' SE of the wellhead.

Phase IV: Remediate the old facility area that would be taken care of at the time of plugging the site.

On June 30th of 2015 Basin Alliance started loading and hauling contaminated soil to take to a local landfarm. This work continued thru July 6th of 2015 and at this time they used a blade to clean off the entire location and continued to haul off the impacted soil to a local landfarm unit July 16th of 2015. A total of 1,362 cubic yards of impacted soil was hauled off to Lazy Ace Land-Farm. A total of 1,008 cubic yards of clean material was purchased from Lacy Ace Landfill for backfill. This material was backhauled to cut down on expenses. Soil samples were taken by Basin Alliance on June 16th of 2015. The sample data is found below and detailed in the report herein:

Pooling Area 1:

8"bgs - 2680 mg/kg chloride, <0.300 mg/kg BTEX and 533.5 mg/kg TPH

Pooling Area 2:

8"bgs - 608 mg/kg chloride, <0.300 mg/kg BTEX and <10 mg/kg TPH

60' from the Wellhead:

1.5'bgs - 3200 mg/kg chloride, <0.300 mg/kg BTEX and 1850 mg/kg TPH

NE Corner of Tank Battery:

1'bgs - 688 mg/kg chloride, <0.300 mg/kg BTEX, 1776.5 mg/kg TPH

**Please note that on the previously drawn sample map, the sample points are as follows:

SP1 - SE Corner

SP2 - SW Corner

SP3 - 60' SE of Wellhead

SP4 - Old Tank Battery Site

On January 15th, 2019 an email was received by Brad Billings of the NMOCD (New Mexico Oil Conservation Division) stating the following:

The original period to come into compliance expired on November 2018, 90 past the effective date of the new rule (29). As there were numerous (I have responsibility now for 5000 plus releases and more than 100 operators), of which operators that did not contact OCD for arrangements for their site(s), the letter was engendered. You may consider the date of this email as the start for the grace period of 90 days to bring this site into comportment and thus compliance with the new release rule. I will try to respond to all operators in a chronological order, ergo the time lapse.

While we are sensitive to your financial situation, there is no allotment for time consideration relative to finances in the new rule.

OCD has found one site (1RP-3680) that needs attention. It should be handled relative to new rule data/reporting needs. Information on characterization and/or remediation should be directed to Brad Billings, not the District Staff, via email. In

PDF format please and again, as per new rule structure/needs. New rule is available online on the OCD website if you do not have a copy.

At this time, Basin Alliance contacted White Buffalo Environmental where I, Natalie Gladden was currently the Environmental and Regulatory Director, to take care of the environmental concerns associated to the Basin Alliance, State AJ SWD. Below you will find the information that was formulated by conducting document review and followed by a site inspection to determine the best course of action to get this release into compliance.

Ground Water Information

WBE had conducted a groundwater study of the area and determined that according to the New Mexico Office of the State Engineer the vadose zone depth at this release site was estimated to a depth of 63'bgs (below ground surface). The records or observed water wells within 1000 horizontal feet of this site are listed below:

L-13333 POD 1 - 448' from the site at 63'bgs L-13333 POD 2 - 450' from the site at 63'bgs L-01550 POD 2 - 849' from this site at 70'bgs

Average depth to ground water at this site is 65'bgs, with a minimum depth of 63'bgs and a maximum depth at 70'bgs.

With the data collected during the groundwater research, there are three verifiable records of ground water in the vicinity to the site mentioned above. Specific well data is shown in the groundwater section of this report.

The Closure Criteria for Soils impacted by the Release is below, based on ground water at 63'bgs, the below standard was followed during the delineation phase of the project:

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

Delineation Conducted by WBE for 1RP-3680

On January 24th of 2019, White Buffalo Environmental personnel – initiated the delineation of this site as per Basin Alliance, LLC. The previous designated area of contamination began in the SE Corner of the pad and continued to the pasture area outside the pad base. The site was measured, photo'd and soil sampling was conducted and field tested for chloride using the Titration Method and BTEX/TPH by use of a PID Meter. This site was delineated using both the old and new rule for Spill Cleanup. The new rule was used to get a representation of the contamination and impacted areas for this release based on the depth of groundwater and time lapse from the original release. Please note that previous delineation did not fully represent the impaction of this site. Therefore, the site was fully delineated by WBE as per the NMOCD. Field testing indicated the following concentrations were found at the surface of the impacted area:

Sample ID	Chloride	BTEX/TPH					
SP1	2200	NO DETECTION					
SP2	6960	NO DETECTION					
SP3	1760	NO DETECTION					
SP4	9200	NO DETECTION					
SP5	1840	NO DETECTION					
SP6	3200	NO DETECTION					
SP7	1200	NO DETECTION					
SP8	2240	NO DETECTION					
SP9	13200	NO DETECTION					
SP10	1040	NO DETECTION					
SP11	480	BTEX/TPH NOTED					
SP12	8000	NO DETECTION					
SP13	6400	NO DETECTION					

SP14	1440	NO DETECTION			
SP15	8400	NO DETECTION			
SP16	2080	NO DETECTION			
SP17	2240	NO DETECTION			
SP18	1600	NO DETECTION			
SP19	4000 BTEX/TPH NOTED				
SP20	1200	NO DETECTION			
SP21	1280	NO DETECTION			
SP22	400	NO DETECTION			
SP23	720	NO DETECTION			
SP24	12560	NO DETECTION			
SP25	3040	NO DETECTION			
SP26	1360	NO DETECTION			
SP27	560	NO DETECTION			

At this time the impacted area was fully delineated both horizontally and vertically to show the migration of the chloride, BTEX and TPH contamination. Vertical soil samples were taken by use of hand auger and track-hoes. Soil was field tested for chloride using both the chloride strip method as well as titration. A PID meter was also used to indicate volatile concentrations for both BTEX and TPH. Soil samples were taken from 27 sample points which included both pad and pasture areas as indicated on the sample map attached herein.

The vertical bottom hole samples for the impacted area inside the fence on the pad area and the pasture area are as follows and represent the confirmed concentrations by Cardinal Laboratories:

**Please note that the lab confirmation data is included and notated in the yellow marked area.

Sample ID	Ft	Field Chl	Tit	PID	Lab- Chl	Lab- BTEX	Lab- GRO	Lab- DRO	Lab- MRO	ТРН
SP1	SUR	2240		0	Cili	DILX	GILO	DICO	TUING	
011	2'	640		0						+
	4'	400		0						
	6'	640		0						
	81	480		0						
	10'	480	480	0	160	<0.300	<10	<10	<10	<10
SP2	SUR	6960	100	0	200	40.000	120	120	120	120
J	2'	320		0			,			
	4'	560		0						
	6'	720		0						
	8'	560		0						
	10'	720		0						
	12'	720		0						
	14'	560		0						
	16'	480	480	0	192	<0.300	<10	<10	<10	<10
SP3	SUR	1760		0						
	2'	400		0						
	4'	240	400	0	128	<0.300	<10	<10	<10	<10
SP4	SUR	9200		0						
	2'	1200		0						
	4'	240		0						
	6'	480		0						
	8'	480	400	0	208	<0.300	<10	<10	<10	<10
SP5	SUR	1840		0						
	2'	800		0						
	4'	240		0						
	6'	560		0						
	8'	480	480	0	144	<0.300	<10	<10	<10	<10
SP6	SUR	3200		0						
	2'	1680		0						
	4'	960		0						
	6'	1200		0						
	8'	1040		0						
	10'	960		0					,90	
	12'	800		0						
	14'	560		0						
	16'	480	480	0	112	<0.300	<10	<10	<10	<10
SP7	SUR	1200		0						
	2'	2640		0						

	4'	2400		0						
	6'	2240		0						
	8'	1200		0						
	10'	880		0						
	12'	1220		0						
	14'	720		0						
	16'	400		0						
	18'	400	360	0	32	<0.300	<10	<10	<10	<10
SP8	SUR	2240		0						
	2'	880		0						
	4'	560		0						
	6'	720		0						
	8'	1120		0						
	10'	880		0						
	12'	480		0						
	14'	480	800	0	560	<0.300	<10	<10	<10	<10
SP9	SUR	13200		0						
	2'	1120		0						
	41	1200		0						
	6'	1120		0						
	8'	1040		0						
	10'	800		0						
	12'	560		0						
	14'	560		0						
	16'	160	400	0	128	<0.300	<10	<10	<10	<10
SP10	SUR	1040		0						
	2'	560		0						
	4'	480	800	0	576	<0.300	<10	<10	<10	<10
SP11	SUR	480		0						
	2'	160		0						
	4'	160	800	0	96	<0.300	<10	<10	<10	<10
SP12	SUR	8000		0						
	21	400		0						
	4'	400	400	0	512	<0.300	<10	12.1	<10	12.1
SP13	SUR	6400		0						
	2'	480		0						
	4'	480	800	0	560	<0.300	<10	<10	<10	<10
SP14	SUR	1440		0						
	2'	880		0						
	4'	880		0						
	6'	400		0						

	8'	320	400	0	272	<0.300	<10	<10	<10	<10
SP15	SUR	8400		0						
	2'	4000		0						
	4'	1360		0						
	6'	1200		0						
	8'	800		0						
	10'	240		0						
	12'	160	240	0	64	<0.300	<10	<10	<10	<10
SP16	SUR	2080		0						
	2'	1440		0						
	4'	1280		0						
	6'	1040		0						
	8'	1200		0						
	10'	1120		0						
	12'	880		0						
	14'	320		0						
	16'	480		0						
	18'	480		0						
	20'	320	160	0	64	<0.300	<10	<10	<10	<10
SP17	SUR	2240		0						
	2'	1240		0						
	4'	1080		0						
	6'	1080		0						
	8'	840		0						
	10'	1040		0						
	12'	1120		0						
	14'	560		0						
	16'	480	240	0	304	<0.300	<10	<10	<10	<10

SP18	SUR	1600		0						
	2'	1520		0						
	4'	800		0						
	6'	560		0						
	8'	400	400	0	48	<0.300	<10	<10	<10	<10
SP19	SUR	4000		0						
	2'	1920		0						
	4'	960		0						
	6'	1280		0						
	8'	1120		0						
	10'	640		0						
	12'	800		0						
	14'	720		0						
	16'	560		0						
	18'	480	560	0	416	<0.300	<10	27.8	13.2	41
SP20	SUR	1200		0						
	2'	800		0						
	4'	1120		0						
	6'	960		0						
	8'	640		0						
	10'	560		0						
	12'	400	400	0	144	<0.300	<10	<10	<10	<10
SP21	SUR	1280		0						
	2'	800		0						
	4'	960		0						
	6'	800		0						
	8'	720		0						
	10'	640		0						
	12'	560		0						
	14'	320	560	0	208	<0.300	<10	<10	<10	<10
SP22	SUR	400		0						
	2'	960		0						
	4'	1120		0						
	6'	800		0						
	8'	640		0						
	10'	480		0						
	12'	480	320	0	96	<0.300	<10	<10	<10	<10
SP23	SUR	720		0						
	2'	720		0						
	4'	800		0						
	6'	1280		0					1	

	8'	1040		0						
	10'	560		0						
	12'	480	400	0	176	<0.300	<10	<10	<10	<10
SP24	SUR	12560		0						
	2'	1680		0						
	4'	1680		0						
	6'	880		0						
	8'	480		0						
	10'	400	240	0	48	<0.300	<10	<10	<10	<10
SP25	SUR	3040		0						
	2'	1760		0						
	4'	960		0						
	6'	980		0						
	8'	320	240	0	64	<0.300	<10	<10	<10	<10
SP26	SUR	1360		0						
	2'	2240		0						
	4'	1200		0						
	6'	800		0						
	8'	560		0						
	10'	360	400	0	64	<0.300	<10	<10	<10	<10
SP27	SUR	560		0						
	2'	800		0						
	4'	640		0						
	6'	800		0						
	8'	720		0						
	10'	560		0						
	12'	400	400	0	240	<0.300	<10	<10	<10	<10

The horizontal sidewall sample results for the impacted area are as follows and have been confirmed by Cardinal Laboratories:

SW1	SUR	880		0						
	11	880		0						
	2'	960		0						
	3'	480		0						
	4'	480	400	0	272	<0.300	<10	<10	<10	<10
SW2	SUR	320		0						
	1'	240	1360	0	96	<0.300	<10	<10	<10	<10
SW3	SUR	400		0						
	1'	240	960	0	16	<0.300	<10	<10	<10	<10
SW4	SUR	400		0						



All final samples were trended, jarred and delivered to Cardinal Laboratories for confirmation. Please see the sample data sheet for the sample trending documentation attached herein.

Karst Mapping

The Karst Mapping data found for this site is located inside a low karst area. The site was delineated to meet the BLM and NMOCD standards for Karst Areas. Please see the Karst Map attached herein.

Remediation Plan Conclusion

White Buffalo Environmental submitted the following remediation work plan to Brad Billings of the NMOCD Santa Fe office:

White Buffalo Environmental would like to propose the following scope of work to remediate this site detailed herein. The original square footage of the pad area was 51, 725' of known impacted area. But since 2015 no other releases have occurred so the area outside of the fenced area is all due to migration of the release as well as this area was not tested during the original work performed in 2015. There was visible evidence that the vegetation had been affected by the release. Below you will find the scope of work that was needed to get this site into compliance.

Based on the new rule, the only area's that fell above the closure criteria was SP9 and SP24. These two areas just needed the surface excavated to a depth of 6" and hauled off to an approved disposal facility. The rest of the pad will be backdragged and contoured back to its natural state. The pasture area will only need to be reseeded and with the lack of natural topsoil (approximately 6"), WBE proposed bringing in 1' of topsoil, ripping and reseeding the area.

The workplan was submitted to Santa Fe on February 21st of 2019 for approval.

In July of 2019, this site was turned over to Hungry-Horse, LLC under my direction.

Remediation Plan Meeting with NMOCD

On August 16th, 2019 Hungry-Horse resubmitted the workplan for approval. On August 19th, a meeting was scheduled by Dylan Rose-Coss the Environmental Scientist, along with Brad Billings of the NMOCD out of Santa Fe. The meeting was scheduled for August 21st of 2019.

On the said date above, I met with Brad Billings and Dylan Rose-Coss to discuss the remediation workplan that needed approval for the Basin Alliance State AJ SWD. During the meeting, it was determined that the pad remediation was approved as written in the Work Plan Proposal, with some added requirements. The NMOCD requested that we excavate 4'bgs out of the pasture area to be excavated and hauled to a local disposal, with backfilling with 4' of clean topsoil. The reason for this modification was to allow the native vegetation to take place. An email was sent to NMOCD to confirm the modifications and the work plan was approved by the NMOCD on August 27th of 2019.

Remediation of Impacted Areas

On September 25th of 2019 Hungry-Horse began the remediation of the State AJ #1 SWD. HH crews began excavating the pad area immediately following the clearance of the one-call. A total of 6" of contaminated soil was hauled to disposal. Samples were taken to verify that the site was ready for closure samples. These samples were taken to Envirotech for confirmation. The NMOCD was notified to verify final samples, we waited the required 48-hour timeframe and no one was available for witnessing of closure samples. Therefore, closure samples of the site were taken, jarred and sent to Envirotech for confirmation.

The pasture area was excavated to 4'bgs, hauled to disposal and backfilled with clean soil. The pad and pasture area were contoured back to its natural state. The pasture area was then ripped and reseeded with BLM #3 seed.

The closure samples were broken out into three groups:

Area A: East pasture area

Area B: Pad area

Area C: South pasture area

The sample data below represents both the field sampling, along with the confirmed lab analysis to meet the closure requirements for this site:

Area A:

AREA A			wi - Si	N. K. IVI				ic disease	
SP ID	Depth	Titr	PID	L-BTEX	L-DRO	L-ORO	L-GRO	L-TPH	L-CHL
SP1 COM	4'	480	0						
SP2 COM	4'	400	0						
SP3 COM	4'	400	0						
SP4 COM	4'	400	0						
SP5 COM	4'	480	0						
SP6 COM	4'	320	0						
COM MIX	4'	400	0	ND	ND	ND	ND -	ND	56.5
SW1		360	0	ND	ND	ND	ND	ND	113
SW2		400	0	ND	ND	ND	ND	ND	71.2
SW3		440	0	ND	ND	ND	ND	ND	84.2
SW4		400	0	ND	ND	ND	ND	ND	102
SW5		360	0	ND	ND	ND	ND	ND	77.1
SW6		360	0	ND	ND	ND	ND	ND	309
SW7		400	0	ND	ND	ND	ND	ND	103
SW8		400	0	ND	ND	ND	ND	ND	283
SW9		320	0	ND	ND	ND	ND	ND	284
SW10		360	0	ND	ND	ND	ND	ND	44.5

Area B:

AREA B			h de			Charles of the same			
SP ID	Depth	Titr	PID	L-BTEX	L-DRO	L-ORO	L-GRO	L-TPH	L-CHL
SP1 COM	6"	320							
SP2 COM	6"	160							
SP3 COM	6"	400							
SP4 COM	6"	480							
SP5 COM	6"	400		7.					
COM MIX	6"	480	ND	ND	ND	ND	ND	ND	25.5
SW1		520	ND	ND	ND	ND	ND	ND	29.1
SW2		520	ND	ND	ND	ND	ND	ND	ND
SW3		480	ND	ND	ND	ND	ND	ND	72.8
SW4		400	ND	ND	ND	ND	ND	ND	88.5

Area C:

AREA C		PROPERTY.					Description of the last	3 1	
SP ID	Depth	Titr	PID	L-BTEX	L-DRO	L-ORO	L-GRO	L-TPH	L-CHL
SP1 COM	4'	480							
SP2 COM	4!	400							
SP3 COM	4'	320		¥51					
SP4 COM	4'	400							
SP5 COM	4'	480							
COM MIX	4'	400	ND	ND	ND	ND	ND	ND	211
SW1		320	ND	ND	ND	ND	ND	ND	168
SW2		400	ND	ND	ND	ND	ND	ND	59.7
SW3		480	ND	ND	ND	ND	ND	ND	177
SW4		400	ND	ND	ND	ND	ND	ND	171

Once the above analysis was received the site was then backfilled. The pad area was backfilled with caliche and the pasture areas were backfilled with 2' of caliche and 2' of topsoil. The pasture area was then ripped and seeded with BLM #3 seed.

Please find the sample data, lab analysis and photos of the remediated site attached herein.

Conclusion

At this time Hungry-Horse LLC along with Basin Alliance would like to request Closure of this environmental incident according to the approved Remediation Plan. If you have any questions or concerns about this site please do not hesitate to contact me at any time.

Sincerely,

Natalie Gladden

Director of Environmental & Regulatory Services

atalie Gladden

4024 Plains Highway

Lovington, NM 88260

Cell: (575)-390-6397

Email: ngladden@hungry-horse.com

Attachments:

2015 Delineation

2015 NMOCD Letters and Notifications

Groundwater Data

WBE Delineation Data

WBE Sample Map

Karst Map

2019 Work Plan

2019 Work Plan Approval Emails

2019 Remediation Sample Data

2019 Remediation Photos

2019 Closure Sample Data

2019 Closure Sample Map

2019 Closure Lab Analysis

2019 Closure Photos

Final C141

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

Form C-141 Revised August 8, 2011

pKJ1517336044

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			Rele	ease Notifica	atior	n and Co	orrective A	ction							
					(OPERAT	OR	al Report		Final Report					
Name of Co	mpany: B	Basin Allianc	e LLC		-	Contact: Hugo Naegele Jr									
Address: Po							No.: 575-392-59	999 Ce	11: 575-39	0-1250					
Facility Nan	ne: State A	AJ #1 SWD				Facility Typ	e: SWD								
Surface Own	ner State	of New Mex	ico	Mineral Ov	wner				API No	. 30-025-2	28083				
				LOCA	TIOI	N OF REI	LEASE								
Unit Letter G	Section 33	Township 18S	Range 36E	Feet from the 2310	North/ North	South Line	Feet from the 2310	East/West Line East		e County Lea					
	•	Lat	titude	32.704932" N	North_	Longit	ude103 .358	345 W	est						
				NATI	URE	OF REL	EASE								
Type of Relea			Recovered (
Source of Rel fire.	lease Ligh	ting storm stru	uck the tar	nk battery and caug	ght	Date and H 6-13-15 6	Iour of Occurrenc PM	e:	Date and 6-13-15	Hour of Dis 6:14pm	covery:	:			
Was Immedia	ate Notice (Yes 🗌	No Not Requ	uired	If YES, To NMOCD o	Whom? office in Hobbs, N	M							
By Whom?							Iour: 6-14-2015								
Was a Watero	course Read	ched?	Yes X	No		If YES, Vo	olume Impacting t	he Wate	ercourse.						
If a Watercourse was Impacted, Describe Fully.* Attachment RECEIVED By OCD District 1 at 9:29 am, Jun 22, 2015											015				
Describe Cau Attachment	se of Probl	em and Remed	dial Action	n Taken.*											
Describe Area Attachment	a Affected	and Cleanup A	Action Tak	en.*											
regulations al public health should their of or the environ	Il operators or the envir operations h nment. In a	are required to ronment. The nave failed to a	o report ar acceptance adequately OCD accep	is true and completed of a C-141 report investigate and restance of a C-141 report and a C-141 report investigate and restance of a C-141 report in the control of a	lease notes that the lease	otifications a e NMOCD m e contaminati	nd perform correct arked as "Final Ro on that pose a thre	tive acti eport" d eat to gr	ons for rele oes not reli ound water	eases which eve the oper , surface wa	may er rator of iter, hu	ndanger f liability man health			
							OIL CONS	SERV	ATION	DIVISIO	<u>N</u>				
Signature: H	ugo Naegel	le Jr													
Printed Name						Approved by	Environmental S _I	pecialist	Kel	A					
Title: Membe	er					Approval Da	te: 06/22/2015	I	Expiration 1	Date:	2/2015	;			
E-mail Addre	ess: hnaege	ele55@bajabb.	com			Conditions of Approval: Site samples required. Delineate and						Attached 168776			
Date: 6-14-				Phone:575-392-5	999	remediate as	per MNOCD gui	ides. Ge	eotag	1RP-368	0				
Attach Addit	tional Shee	ets If Necess	ary			photographs	of remediation r	equired		nKJ15173	335905	l .			

Basin Alliance, LLC

P. O. Box 1378 Hobbs, New Mexico 88241 Hugo Naegele (575) 390-1250

SUMMARY OF EVENTS AND FIELD ACTIVITIES

Basin Alliance State AJ #1

Lea County, New Mexico
UNIT G, Section 33, Township 18S, Range 36E
Latitude, Longitude 32°.704932" North, -103°.358345 West

June 19, 2015

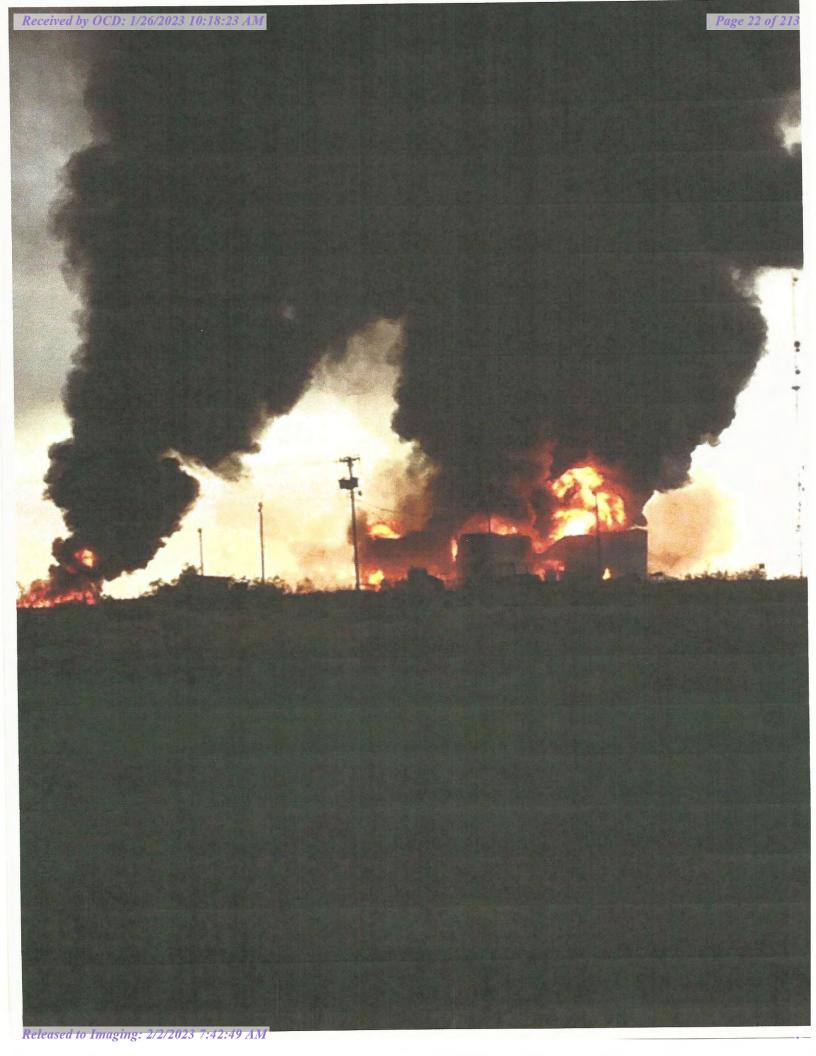
Hugo Naegele Basin Alliance, LLC

SUMMARY OF EVENTS AND FIELD ACTIVITIES

During a severe rain and lighting storm on the evening of Saturday June 13, 2015 the tank battery at the State AJ #1 caught fire due to a lighting strike. Sunday morning, as soon as, the conditions were safe the area was assessed and clean up was started. Two vacuum trucks were dispatched one to remove the fluid from the tanks displacing the fluid into portable frac tanks and the other to began removing fluid off the ground within the burm. The clean up of free fluids from the rain as well as the release continued on Monday June 15, 2015. Following the removal of the free fluid from within the burm area the impacted soils has been excavated and temporarily stockpiled on a poly liner until further remediation can be accomplished. The tank battery is now being disassembled and the burmed tank battery area will then be assessed for clean up.

This site is located in Unit G, Section 33, Township 18 South, Range 36 East, in Lea County, New Mexico. The latitude is 32°.704932" and the longitude is -103°.358345". The site is characterized by a right-of-way for the State AJ #1 disposal well and tank battery. The surrounding area outside the pump station is primarily open range utilized for cattle grazing and oilfield production activities. The visible surface stained area includes the explosion release point including the lined and burmed tank battery, as well as, the burmed location covering an area approximately 190 feet long by 260 feet wide at the widest point. Two pooling areas were formed one in the Southwest Corner of the location (pooling area 1) 25 feet long by 30 feet wide and one in the Southeast Corner of the location (pooling area 2) 45 feet long by 35 feet long. Approximately 900 barrels of fluid was released from the tanks during the explosion with over 1150 barrels of fluid recovered. The increase in fluid is attributed to the heavy rain fall from the storm.

Ms. Kellie Jones, with the New Mexico Oil Conservation Division (NMOCD), in the Hobbs, New Mexico office was verbally notified Monday June 15, 2015 of the release. As advised by Ms. Jones a C-141 form, dated June 15, 2015 has been completed by Basin Alliance and has been submitted with this summary of events.





Administrative/Environmental Order



Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



App Number: pKJ1517336044

1RP - 3680
BASIN ALLIANCE LLC

2/12/2016

HOBBS OCD

AUG 0 7 2015

RECEIVED

Basin Alliance LLC State AJ #1 SWD

Summary of events:

On June 13, 2015; Saturday around 6pm a thunderstorm (with heavy lightening) went through central Lea County. Basin Alliance LLC State AJ #1 located off of 62/180 and state road 483, received a direct strike on one of our oil storage tanks. It resulted in a total loss of our facility and the release of produce water and oil. Most of the oil was burnt off on site. The Hobbs, Monument and Knowles Fire departments responded. The fire was too hot to try to extinguish for the first couple of hours. We (Hugo Naegele and Robert Layton owners) sat there and watched it burn. The next morning we had equipment and personnel picking up P/W, oil and rain water. Once all the fluid was picked up and carried off to the proper disposal, we had a backhoe to pick up the contaminated soil and had it placed onto plastic on site. We started on empting all the vessels containing any fluid. Once the vessels were emptied and the fluid hauled to the proper disposal, a crew started cutting up all the vessels and removed them off location. Before we could blade the location another storm passed by dumped around 2" of rain water and we had to wait for the ground to dry up. Two loads (260 bbls) of rain water were hauled off to a public SWD. A blade was then hired to scrape the top foot off the location pad and the soil was sent to a land farm. After the location was cleaned off, we had a third party to take soil samples and waited for the results. (Map and Results attached).

After reviewing the results; we would like to continue doing business on our location. We know the chlorides are high but they are not screaming hot and we would like to build a facility in the same general area of the old tank battery (chlorides 688) lined with heavy plastic and start taking produce water, while continuing to cleaning up the site in phases to comply with NMOCD regulations.

Phase one: Work on the Southeast corner of the location to clean up the chlorides in that area. That was the area that most of the fluid flowed to.

Phase two: Start work on the southwest corner of the location to clean up the chlorides in that area.

Phase three: Clean up area three which was in the flow pattern 60' SE of the wellhead.

Phase four: Would be the area of the old battery site that would be at the time of plugging.

Daily reports:

June 14, 2015; Sunday around 7am, we called out two vacuum trucks, a roustabout gang and set two frac tanks to hold fluid. That day we picked up 1240 bbls of fluid. 980 bbls was put in the frac tanks and 260 bbls hauled to a public SWD.

June 15, 2015; we had three vacuum trunks empting tanks and hauling to a disposal. A backhoe was used to gather up contaminated soil. A gang was used to help the trucks empty the tanks. Hauled 360 bbls of solids to Sundance disposal.

June 16, 2015; had two vacuum trucks were used to empty the tanks. A blade used to scape an area (that was not contaminated) to lay down the plastic. A gang was used to help with the plastic and to help clean the tanks. A backhoe used to pick up the contaminated soil.

June 17, 2015; we released the frac tanks. Three vacuum trucks were used to clean tanks and a pump truck to jet out the tanks. A backhoe used to pick up contaminated soil. The gang was used to help clean the tanks. Hauled 240 bbls of solids to Sundance disposal.

June 18, 2015; two vacuum trucks were used to clean out tanks and a transport to jet out. The gang was used to help clean the tanks. Hauled 240 bbls of solids to Sundance disposal.

June 19, 2015; two vacuum trucks from H2Oil to empty a tank.

June 22, 2015; rained

June 23-25, 2015 Cutting tanks

June 29, 2015; rained, cutting tanks.

June 30, 2015; had a frontend loader load contaminated soil to take to a land farm. Vacuum truck picked up 260 bbls of rain water to haul to a public disposal.

July 1, 2015; had a frontend loader load contaminated soil to take to a land farm. Vacuum truck used to picked up 130 bbls of rain water to haul to a public disposal.

July 2, 2015; had a frontend loader load contaminated soil to take to a land farm.

July 3, 2015; had a frontend loader load contaminated soil to take to a land farm.

July 6, 2015; had a frontend loader load contaminated soil to take to a land farm.

July 10, 2015; used a blade to clean off the whole location

July 13, 2015; used a backhoe to haul contaminated soil to a land farm

July 14, 2015; used a backhoe to haul contaminated soil to a land farm

July 15, 2015; used a backhoe to haul contaminated soil to a land farm and took soil samples.

July 16, 2015; used a backhoe to haul contaminated soil to a land farm



Analytical Results For:

BASIN ALLIANCE HUGO NAEGELE P. O. BOX 1378 HOBBS NM, 88241 Fax To:

Received:

06/16/2015

Sampling Date:

06/16/2015

Reported:

06/17/2015

Sampling Type:

Soil

Project Name:

STATE AJ #1 SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

T 18S R36E SEC. 33 G

Sample ID: POOLING AREA 18" BGL (H501567-01)

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	06/16/2015	ND	1.76	88.2	2.00	1.88	
Toluene*	<0.050	0.050	06/16/2015	ND	1.76	88.1	2.00	1.47	
Ethylbenzene*	0.063	0.050	06/16/2015	ND	1.80	89.9	2.00	1.01	
Total Xylenes*	<0.150	0.150	06/16/2015	ND	4.95	82.4	6.00	0.0159	
Total BTEX	<0.300	0.300	06/16/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.4	% 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	06/17/2015	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	13.5	10.0	06/16/2015	ND	186	92.9	200	0.840	
DRO >C10-C28	365	10.0	06/16/2015	ND	197	98.5	200	1.32	
EXT DRO >C28-C35	155	10.0	06/16/2015	ND					
Surrogate: I-Chlorooctane	104 %	47.2-15	7						
Surrogate: 1-Chlorooctadecane	138 9	52.1-17	6						

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Celeg Ditreme-

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 5



Analytical Results For:

BASIN ALLIANCE **HUGO NAEGELE** P. O. BOX 1378 HOBBS NM, 88241 Fax To:

Received: Reported: 06/16/2015

123 %

52.1-176

Project Name: Project Number: 06/17/2015 STATE AJ #1 SWD NONE GIVEN

Project Location:

T 18S R36E SEC. 33 G

Sampling Date:

Sampling Type:

06/16/2015 Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: POOLING AREA 2 8" BGL (H501567-02)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2015	ND	1.76	88.2	2.00	1.88	
Toluene*	<0.050	0.050	06/17/2015	ND	1.76	88.1	2.00	1.47	
Ethylbenzene*	<0.050 0.050		06/17/2015	ND	1.80	89.9	2.00	1.01	
Total Xylenes*	<0.150	0.150	06/17/2015	ND	4.95	82.4	6.00	0.0159	
Total BTEX	<0.300	0.300	06/17/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.8	% 61-154							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	06/17/2015	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	06/16/2015	ND	186	92.9	200	0.840	
DRO >C10-C28	<10.0	10.0	06/16/2015	ND	197	98.5	200	1.32	
EXT DRO >C28-C35	<10.0	10.0	06/16/2015	ND					
Surrogate: 1-Chlorooctane	98.9	% 47.2-15	7						

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Surrogate: 1-Chlorooctadecane

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 5





Analytical Results For:

BASIN ALLIANCE HUGO NAEGELE P. O. BOX 1378 HOBBS NM, 88241 Fax To:

Received:

07/16/2015

Sampling Date:

07/15/2015

Reported:

07/22/2015

Sampling Type:

Soil

Project Name:

STATE AJ #1 SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Judy Garcia

Project Location:

T 18S R36E SEC. 33 G-LEA CTY., NM

Sample ID: 60' SE OF WELLHEAD @ 1.5' (H501836-01)

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	07/21/2015	ND	1.91	95.6	2.00	2.71	
Toluene*	<0.050	0.050	07/21/2015	ND	1.90	94.9	2.00	2.58	
Ethylbenzene*	<0.050	0.050	07/21/2015	ND	1.99	99.3	2.00	3.99	
Total Xylenes*	<0.150	0.150	07/21/2015	ND	5.20	86.7	6.00	3.71	
Total BTEX	<0.300	0.300	07/21/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	115 %	6 85.6-13	7						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	07/22/2015	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	07/20/2015	ND	196	97.8	200	0.213	
DRO >C10-C28	1800	50.0	07/20/2015	ND	213	107	200	14.6	
Surrogate: 1-Chlorooctane	64.7	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	1019	6 52.1-17	6						

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Celegy T. treene

Celey D. Keene, Lab Director/Quality Manager





Analytical Results For:

BASIN ALLIANCE HUGO NAEGELE P. O. BOX 1378 HOBBS NM, 88241 Fax To:

Received:

07/16/2015

Sampling Date:

07/15/2015

Reported:

07/22/2015

Sampling Type:

Soil

Project Name:

STATE AJ #1 SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Judy Garcia

Project Location:

T 18S R36E SEC. 33 G-LEA CTY., NM

Sample ID: NW CORNER TANK BATTERY @ 1' (H501834-01)

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	07/21/2015	ND	1.91	95.6	2.00	2.71	
Toluene*	< 0.050	0.050	07/21/2015	ND	1.90	94.9	2.00	2.58	
Ethylbenzene*	0.100	0.050	07/21/2015	ND	1.99	99.3	2.00	3.99	
Total Xylenes*	0.275	0.150	07/21/2015	ND	5.20	86.7	6.00	3.71	
Total BTEX	0.376	0.300	07/21/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	114 %	6 85.6-13	7						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	07/22/2015	ND	416	104	400	7.41	
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	66.5	50.0	07/20/2015	ND	196	97.8	200	0.213	
DRO >C10-C28	1710	50.0	07/20/2015	ND	213	107	200	14.6	
Surrogate: 1-Chlorooctane	69.6	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	122 9	6 52.1-17	6						

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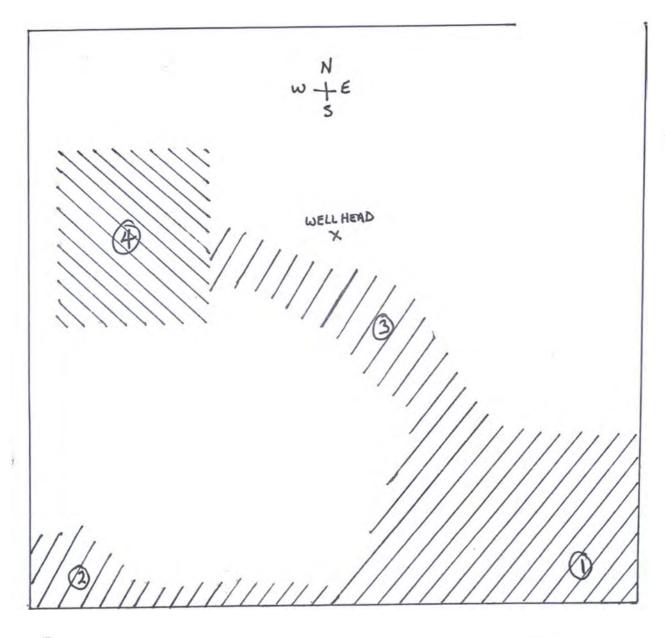
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Celeny L. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 4

BASIN Alliance St. AJ #1 SWD



- 1) SE COPNER
- 2) SW COPNER
- 3) 60' SE WELL HEAD
- 4) old tank battery site



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is closed)

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

		POD													
		Sub-		Q	Q	Q								7	Vater
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	DistanceDe	pthWellDep	thWater C	olumn
L 13333 POD1		L	LE	3	2	2	33	18S	36E	654191	3620085	448	100	63	37
L 13333 POD2		L	LE	3	2	2	33	18S	36E	654191	3620088	450	95	63	32
L 01550 POD2		L	LE	4	3	4	28	18S	18E	654123	3620580	849	190	70	120

Average Depth to Water:

65 feet

Minimum Depth:

63 feet

Maximum Depth:

70 feet

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 653873.83 **Northing (Y):** 3619767.72 **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.

1/28/19 9:54 AM

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)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

X Y

L 13333 POD1

2 33 18S 36E 654191 3620085

Driller License: Driller Company: ENVIRO-DRILL, INC.

Driller Name: HAMMER, RODNEY (LD)

Drill Start Date: 05/28/2013 **Drill Finish Date:**

05/29/2013

100 feet

Plug Date:

Source:

Log File Date: **Pump Type:**

PCW Rcv Date:

Depth Well:

Depth Water:

Shallow

Casing Size:

Pipe Discharge Size:

Estimated Yield:

63 feet

Water Bearing Stratifications:

2.00

06/07/2013

62

Top Bottom Description

100 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

0 60

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1/28/19 9:55 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

X Y

L 13333 POD2

2 33 18S 36E 654191 3620088

Driller License: Driller Company:

Driller Name: HAMMER, RODNEY (LD)

Drill Start Date: 05/28/2013 **Drill Finish Date:**

05/29/2013

ENVIRO-DRILL, INC.

Plug Date:

Log File Date:

06/07/2013

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

2.00

Depth Well:

95 feet

Depth Water:

63 feet

Water Bearing Stratifications:

63

Top Bottom Description

95 Sandstone/Gravel/Conglomerate

Casing Perforations:

Bottom Top

> 54 74

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.

1/28/19 9:55 AM

POINT OF DIVERSION SUMMARY



Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

654123

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

X

L 01550 POD2

3 4 28 18S 18E

Driller License:

Driller Company:

UNKNOWN

3620580

Driller Name:

Drill Start Date: 02/23/2009 **Drill Finish Date:**

02/24/2009

Plug Date:

Source:

Sandstone/Gravel/Conglomerate

Shallow

Log File Date:

03/12/2009

5.00

PCW Rcv Date:

Estimated Yield:

Pump Type: Casing Size:

Pipe Discharge Size: **Depth Well:**

190 feet

Depth Water:

70 feet

Water Bearing Stratifications:

Casing Perforations:

Top Bottom Description

70 110 Sandstone/Gravel/Conglomerate

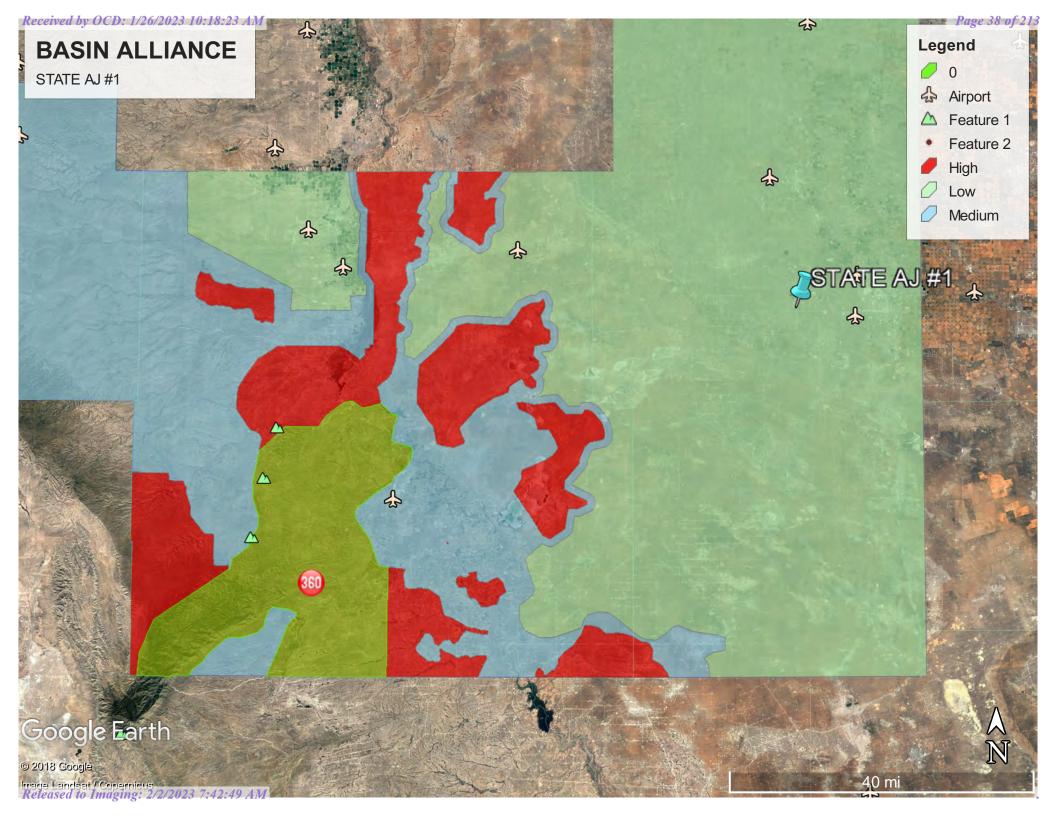
110

Bottom Top

170 190

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

1/28/19 9:56 AM





DELINEATION PLAN

State AJ #1

API NO. 30-025-28083

1RP-3680

Release Date: 6/13/15

Unit G, Section 33, Townsh p 18S, Range 36E

February 21, 2019

Prepared By:



White Buffalo Environmental, Inc.

407 East Broadway

Hobbs, NM 8E240

Phone: (575)738-0424

Fax: (575)738-J430



February 21, 2019

New Mexico Energy, Minerals, & Natural Resources
Oil Conservation Division, Environmental Bureau – District I
c/o Brad Billings
1625 N. French Drive
Hobbs, NM 88240

Re: Delineation Plan Request Basin Alliance, LLC State AJ #1 UL/G, S33, T18S, R36E API No. 30-025-28083

Dear Brad,

Basin Alliance has retained White Buffalo Environmental to address environmental concerns for the site detailed herein.

The site is located in Lea County. The incident occurred during a severe rain and lightning storm on the evening of Saturday June 13th, 2015 for the above-mentioned site. Not only did it burn the facility but also approximately 900bbls of produced water was released onto the pad and pasture area as reported in the C141 that is attached herein. Although they did recover approximately 1150bbls of fluid, which included rain water from the storm. The visual surface stained area included the explosion release point which included the lined and bermed tank battery. As well as, the bermed location covering an area of approximately 49,400 sq. ft. Two pooling areas were formed one in the southwest corner of the pad covering approximately 750 sq. ft. And the area on the southeast corner of the pad covering approximately 1,575 sq. ft. The combined area of impact at the time of the release was 51,725 sq. ft.

The original workplan was submitted and received August 7th of 2015. With the following phases to be completed, which is attached herein:

Phase I: Work on the southwest corner of the location to clean up the chlorides Phase II: Start work on southwest corner of the location to clean up the chlorides Phase III: Clean up area three which was in the flow pattern 60' SE of the wellhead.

Phase IV: Clean up the old battery site that would be at the time of plugging the site.

On June 30th of 2015 Basin Alliance started loading and hauling contaminated soil to take to the land farm. This work continued thru July 6th, 2015 and at this time they used a blade to clean off the entire location and continued to haul off the impacted soil to a local land-farm until July 16th, 2015. A total of 1,362 cubic yards of contaminated soil was excavated and hauled to Lazy Ace Land-farm, documentation of this can be sent if needed. A total of 1,008 cubic yards of clean material was purchased from Lazy Ace Land-farm for backfill. Documentation of backfill can be sent in if requested. Soil samples were taken by Basin Alliance on June 16th, 2015. The sample information is found below and detailed in the report herein:

Pooling Area 1 8": 2680 mg/kg chloride, <0.300 mg/kg BTEX, 533.5 mg/kg TPH Pooling Area 2 8": 608 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH 60' SE of wellhead 1.5': 3200 mg/kg chloride, <0.300 mg/kg BTEX, 1850 mg/kg TPH

NE corner of TB 1': 688 mg/kg chloride, <0.300 mg/kg BTEX, 1776.5 mg/kg TPH

On the previous sample map the sample points are as follows:

SP1 – SE Corner SP2 – SW Corner SP3 – 60' SE of wellhead SP4 – Old Tank Battery Site

On January 15th, 2019 an email was received by yourself, Brad Billings stating the following.

The original period to come into compliance expired in November 2018, 90 days post effective date of new rule (29). As there were numerous (I have responsibility now for 5000 plus releases and more than 100 operators) operators that did not contact OCD for arrangements for their site(s), the letter was engendered. You may consider the date of this email as the start for a grace 90 days to bring site into comportment and thus compliance with the new release rule. I try to respond to all operators in a chronological order, ergo the time lapse.

While we are sensitive to your financial situation, there is no allotment for time consideration relative to finances in the new rule.

OCD has found one site (1R-3680) that needs attention. It should be handled relative to new rule data/reporting needs. Information on characterization and or remediation should be directed to me, not District staff, via email. In PDF format please, and again, as per new rule structure/needs. New rule is available on line on OCD website if you do not have a copy.

At this time, Basin Alliance contacted White Buffalo Environmental to take care of the environmental concerns for the site listed and detailed herein.

Ground Water Information

WBE has conducted a groundwater study of the area and determined that according to the New Mexico Office of the Engineer the vadose zone depth at this release location is estimated at a depth of 63'bgs. The records or observed water wells within 1000 horizontal feet of this site are listed below:

L-13333 POD 1 – 448' from site at 63'bgs L-13333 POD 2 – 450' from site at 63'bgs L-01550 POD 2 – 849' from site at 70'bgs

Average depth to ground water at this site is 65'bgs, with minimum depth at 63'bgs and maximum depth at 70'bgs.

With the data collected during the groundwater research, there are three verifiable records of groundwater in the vicinity to the site mentioned above. Specific well data is shown in the groundwater section of this report.

The Closure Criteria for Soils impacted by the Release is below, based on groundwater at 63'bgs the below standard was followed during the delineation phase of this project:

DGW	Constituent	Method	Limit
51'-100' Chloride	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

WBE Delineation for 1RP-3680

On January 24th of 2019, White Buffalo Environmental personnel-initiated the delineation of this site as per Basin Alliance. The previous designated area of contamination began in the SE Corner of the pad and continued to the pasture

area outside the pad base. The site was measured, photo'd and soil samples were collected and field tested for chloride and BTEX. This site was delineated using both the old and new rule for Spill Cleanup. The new rule was used to get a representation of the contamination in this area due to depth of groundwater and time lapse from the original release. Field testing indicated the following concentrations were found at the surface of the impacted area:

SP1: 2200 mg/kg chloride, no BTEX/TPH noted SP2: 6960 mg/kg chloride, no BTEX/TPH noted SP3: 1760 mg/kg chloride, no BTEX/TPH noted SP4: 9200 mg/kg chloride, no BTEX/TPH noted SP5: 1840 mg/kg chloride, no BTEX/TPH noted SP6: 3200 mg/kg chloride, no BTEX/TPH noted SP7: 1200 mg/kg chloride, no BTEX/TPH noted SP8: 2240 mg/kg chloride, no BTEX/TPH noted SP9: 13200 mg/kg chloride, no BTEX/TPH noted SP10: 1040 mg/kg chloride, no BTEX/TPH noted SP11: 480 mg/kg chloride, BTEX/TPH noted SP12: 8000 mg/kg chloride, no BTEX/TPH noted SP13: 6400 mg/kg chloride, no BTEX/TPH noted SP14: 1440 mg/kg chloride, no BTEX/TPH noted SP15: 8400 mg/kg chloride, no BTEX/TPH noted SP16: 2080 mg/kg chloride, no BTEX/TPH noted SP17: 2240 mg/kg chloride, no BTEX/TPH noted SP18: 1600 mg/kg chloride, no BTEX/TPH noted SP19: 4000 mg/kg chloride, BTEX/TPH noted SP20: 1200 mg/kg chloride, no BTEX/TPH noted SP21: 1280 mg/kg chloride, no BTEX/TPH noted SP22: 400 mg/kg chloride, no BTEX/TPH noted SP23: 720 mg/kg chloride, no BTEX/TPH noted SP24: 12560 mg/kg chloride, no BTEX/TPH noted SP25: 3040 mg/kg chloride, no BTEX/TPH noted SP26: 1360 mg/kg chloride, no BTEX/TPH noted SP27: 560 mg/kg chloride, no BTEX/TPH noted

At this time the impacted area was fully delineated, horizontally and vertically to show the migration of chloride contamination. Vertical soil samples were taken by use of hand auger. Soil was field tested for chloride using both the chloride strip method as well as titration. A PID meter was also used to indicate concentrations to BTEX. Soil samples were taken from 27 sample points which included both pad and pasture areas as indicated in the sample map attached.

The vertical bottom hole samples for the impacted area inside the fence on pad area and the pasture area are as follows and represent the confirmed concentrations by Cardinal Laboratories:

```
SP1-10'bgs: 160 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP2-16'bgs: 192 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP3-4'bgs: 128 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP4-8'bgs: 208 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP5-8'bgs: 144 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP6-16'bgs: 112 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP7-18'bgs: 32 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP8-14'bgs: 560 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP9-16'bgs: 128 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP10-4'bgs: 576 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP11-4'bgs: 96 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP12-4'bgs: 512 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP13-4'bgs: 560 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP14-8'bgs: 272 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP15-12'bgs: 64 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP16-20'bgs: 64 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP17-16'bgs: 304 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP18-8'bgs: 48 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP19-18'bgs: 416 mg/kg chloride, <0.300 mg/kg BTEX, 41 mg/kg TPH
SP20-12'bgs: 144 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP21-14'bgs: 208 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP22-12'bgs: 96 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP23-12'bgs: 176 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP24-10'bgs: 48 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP25-8'bgs: 64 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP26-10'bgs: 64 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
SP27-12'bgs: 240 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
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The horizontal sidewall sample results for the impacted area are as follows and have been confirmed by Cardinal Laboratories:

```
SW1: 4': 272 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH SW2: 1': 96 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH SW3: 1': 16 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH SW4: 1': 160 mg/kg chloride, <0.300 mg/kg BTEX, <10 mg/kg TPH
```

All final soil samples were trended, jarred and delivered to Cardinal Lab for confirmation. Please see the sample data sheet for the sample trending documentation attached herein.

Karst Mapping

The Karst Mapping data found for this site is located inside a low karst area. The site was delineated to meet BLM and NMOCD standards for Karst areas. Please see map attached.

Conclusion

White Buffalo Environmental would like to propose the following scope of work to remediate this site detailed herein. The original square footage of the pad area was 51,725 of known impacted area. But since 2015 no other releases have occurred so the area outside of the fenced area is all migrated contamination. There is evidence that the vegetation has been affected by the release. Below you will find the scope of work to get this site under compliance.

Based on the new rule, the only area's that fall above the closure criteria is SP9 and SP24. These two areas just need the surface excavated to a depth of 6" and hauled off to an approved disposal facility. The rest of the pad will be backdragged and contoured back to its natural state. The pasture area will only need to be reseeded and with the lack of natural topsoil (approximately 6"), WBE would like to propose bringing in a 1' of topsoil, ripping and reseeding the area.

White Buffalo would like to thank you for allowing us to take care of your environmental issues at this site. Please contact me if you have any questions.

Sincerely,

Natalie Gladden

Environmental & Regulatory Director

Osteli Gladder

White Buffalo Environmental

407 E. Broadway

Hobbs, NM 88240

Cell: (575-390-6397

Attachments:

C141

Emails and Correspondence

Groundwater Data

Site Photographs & Site Diagram

Karst Map's

Sample Data

Sample Map & Lab Analysis

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

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

pKJ1517336044

						PERAT	OR	X□] Initia	al Report	☐ Final
Name of Company: Basin Alliance LLC						ontact: Hu	igo Naegele Jr				3111-21
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urface Ow	ner State o	f New Mexi	ico	Mineral O	wner			I	API No	30-025	-28083
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Basin Alliance, LLC

P. O. Box 1378 Hobbs, New Mexico 88241 Hugo Naegele (575) 390-1250

SUMMARY OF EVENTS AND FIELD ACTIVITIES

Basin Alliance State AJ #1

Lea County, New Mexico
UNIT G, Section 33, Township 18S, Range 36E
Latitude, Longitude 32°.704932" North, -103°.358345 West

June 19, 2015

Hugo Naegele Basin Alliance, LLC

SUMMARY OF EVENTS AND FIELD ACTIVITIES

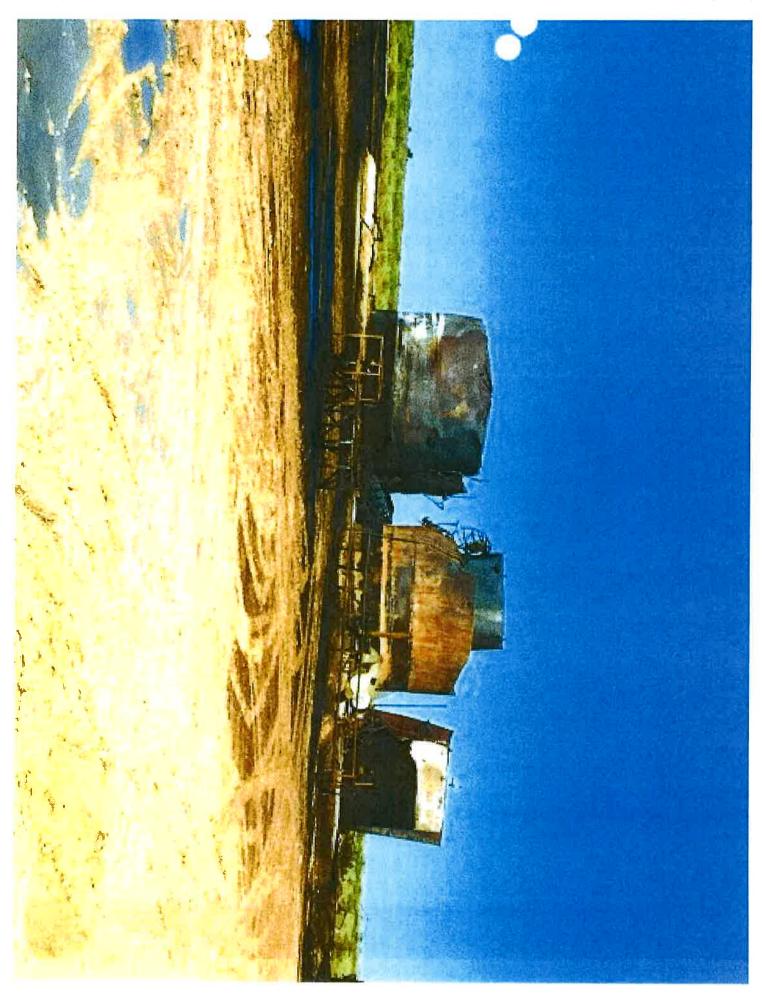
During a severe rain and lighting storm on the evening of Saturday June 13, 2015 the tank battery at the State AJ #1 caught fire due to a lighting strike. Sunday morning, as soon as, the conditions were safe the area was assessed and clean up was started. Two vacuum trucks were dispatched one to remove the fluid from the tanks displacing the fluid into portable frac tanks and the other to began removing fluid off the ground within the burm. The clean up of free fluids from the rain as well as the release continued on Monday June 15, 2015. Following the removal of the free fluid from within the burm area the impacted soils has been excavated and temporarily stockpiled on a poly liner until further remediation can be accomplished. The tank battery is now being disassembled and the burmed tank battery area will then be assessed for clean up.

This site is located in Unit G, Section 33, Township 18 South, Range 36 East, in Lea County, New Mexico. The latitude is 32°.704932" and the longitude is -103°.358345". The site is characterized by a right-of-way for the State AJ #1 disposal well and tank battery. The surrounding area outside the pump station is primarily open range utilized for cattle grazing and oilfield production activities. The visible surface stained area includes the explosion release point including the lined and burmed tank battery, as well as, the burmed location covering an area approximately 190 feet long by 260 feet wide at the widest point. Two pooling areas were formed one in the Southwest Corner of the location (pooling area 1) 25 feet long by 30 feet wide and one in the Southeast Corner of the location (pooling area 2) 45 feet long by 35 feet long. Approximately 900 barrels of fluid was released from the tanks during the explosion with over 1150 barrels of fluid recovered. The increase in fluid is attributed to the heavy rain fall from the storm.

Ms. Kellie Jones, with the New Mexico Oil Conservation Division (NMOCD), in the Hobbs, New Mexico office was verbally notified Monday June 15, 2015 of the release. As advised by Ms. Jones a C-141 form, dated June 15, 2015 has been completed by Basin Alliance and has been submitted with this summary of events.



Released to Imaging: 2/2/2023 7:42:49 AM



Released to Imaging: 2/2/2023 7:42:49 AM

SE COUNTR 1



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

Analytical Results For:

BASIN ALLIANCE HUGO NAEGELE P. O. BOX 1378 HOBBS NM, 88241 Fax To:

Received:

06/16/2015

NONE GIVEN

Sampling Date:

06/16/2015

Reported:

06/17/2015

Sampling Type:

Soil

Project Name:

STATE AJ #1 SWD

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

Project Number:

T 185 R36E SEC. 33 G

Project Location:

Sample ID: POOLING AREA 1 8" BGL (H501567-01)

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<0.050	0.050	06/16/2015	ND	1.76	88.1	2.00	1.47	
0.063	0.050	06/16/2015	ND	1.80	89.9	2.00	1.01	
<0.150	0.150	06/16/2015	ND	4.95	82.4	6.00	0.0159	
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365	10.0	06/16/2015	ND	197	98.5	200	1.32	
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Cardinal Laboratories

*=Accredited Analyte

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alexander time

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 5

SW CORNER (2)



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

Analytical Results For:

BASIN ALLIANCE HUGO NAEGELE P. O. BOX 1378 HOBBS NM, 88241 Fax To:

Received:

06/16/2015

Sampling Date:

06/16/2015

Reported:

06/17/2015

Sampling Type:

Soll

Project Name:

STATE AJ #1 SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

T 18S R36E SEC. 33 G

Sample ID: POOLING AREA 2 8" BGL (H501567-02)

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	06/17/2015	ND	1.76	88.2	2.00	1.88		
Toluene*	<0.050	0.050	06/17/2015	ND	1.76	88.1	2.00	1.47		
Ethylbenzene*	<0.050	0.050	06/17/2015	ND	1.80	89.9	2.00	1.01		
Total Xylenes*	<0.150	0.150	06/17/2015	ND	4.95	82.4	6.00	0.0159		
Total BTEX	<0.300	0.300	06/17/2015	ND						
Surrogate: 4-Bromosluorobenzene (PIE	98 8 9	% 61-154								
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	06/17/2015	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	Qualifler	
GRO C6-C10	<10.0	10.0	06/16/2015	ND	186	92.9	200	0.840		
DRO >C10-C28	<10.0	10.0	06/16/2015	ND	197	98.5	200	1.32		
EXT DRO >C28-C35	<10.0	10.0	06/16/2015	ND						
Surrogate: 1-Chlorooctane	98 9 9	6 47.2-15	7							
Surrogate: 1-Chlorooctadecane	123 %	6 52 1-17	6							

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

Analytical Results For:

BASIN ALLIANCE HUGO NAEGELE P. O. BOX 1378 HOBBS NM, 88241

Fax To:

Received:

07/16/2015

Sampling Date:

07/15/2015

Reported:

07/22/2015

Sampling Type:

Soll

Project Name:

STATE AJ #1 SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Judy Garcia

Project Location:

T 185 R36E SEC. 33 G-LEA CTY., NM

Sample ID: 60' SE OF WELLHEAD @ 1.5' (H501836-01)

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	07/21/2015	ND	1.91	95.6	2.00	2.71	
Toluene*	<0.050	0.050	07/21/2015	ND	1.90	94.9	2.00	2.58	
Ethylbenzene*	<0.050	0.050	07/21/2015	ND	1.99	99.3	2.00	3.99	
Total Xylenes*	<0.150	0.150	07/21/2015	ND	5.20	86.7	6.00	3.71	
Total BTEX	<0.300	0.300	07/21/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	115 9	% 85 6-13	7						
Chloride, SM450DCI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200 16.0		07/22/2015 ND		416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
GRO C6-C10	<50.0	50.0	07/20/2015	ND	196	97.8	200	0.213	
DRO >C10-C28	1800	50.0	07/20/2015	ND	213	107	200	14.6	
Surrogate: 1-Chlorooctane	647	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	101 9	6 521-17							

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Page 2 of 4





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

Analytical Results For:

BASIN ALLIANCE HUGO NAEGELE P. O. BOX 1378 HOBBS NM, 88241 Fax To:

Received:

07/16/2015

Sampling Date:

07/15/2015

Reported:

07/22/2015

Sampling Type:

Soil

Project Name:

STATE AJ #1 SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Judy Garcia

Project Location:

T 185 R36E SEC. 33 G-LEA CTY., NM

Sample ID: NW CORNER TANK BATTERY @ 1' (H501834-01)

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	07/21/2015	ND	1.91	95.6	2.00	2.71	
Toluene*	<0.050	0.050	07/21/2015	ND	1.90	94.9	2.00	2.58	
Ethylbenzene*	0.100	0.050	07/21/2015	ND	1.99	99.3	2,00	3.99	
Total Xylenes*	0.275	0.150	07/21/2015	ND	5.20	86.7	6.00	3.71	
Total BTEX	0.376	0.300	07/21/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	1149	% 85 6-13	7						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					Qualifier Qualifier Qualifier
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688 16.0		07/22/2015 ND		416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifler
GRO C6-C10	66.5	50.0	07/20/2015	ND	196	97.B	200	0.213	
DRO >C10-C28	1710	50.0	07/20/2015	ND	213	107	200	14.6	
Surrogate: 1-Chlorooctane	69.6	% 47 2-15	7						
Surrogate: 1-Chlorooctadecane	122 9	6 52.1-17	6						

Surrogate: 1-Chlorooctadecane

122%

52.1-176

Cardinal Laboratories

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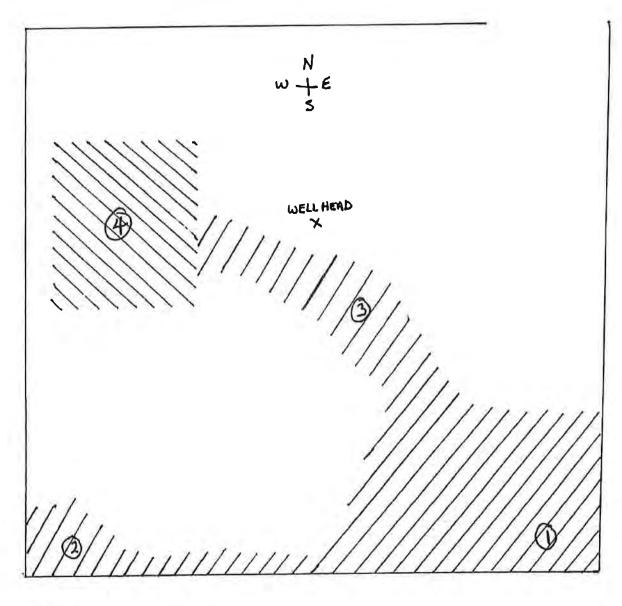
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Page 2 of 4

BASIN Alliance St. AT #1 SWD



- flow pattern

1 - Old tank battery site

- 1) SE COPNER
- 2) SW COTNER
- 3) 60' SE WELL HEAD
- 4) old trak battery site



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,

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

C=the file is closed)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub- basin	County	Q 64	-	-	Sec	Tws	Rng	x	V	DistanceDe	othWellDen		Water
L 13333 POD1	Couc	L	LE						36E	654191	3620085	448	100	63	37
L 13333 POD2		L	LE	3	2	2	33	18S	36E	654191	3620088	450	95	63	32
L 01550 POD2		L	LE	4	3	4	28	18S	18E	654123	3620580	849	190	70	120

Average Depth to Water:

65 feet

Minimum Depth:

63 feet

Maximum Depth:

70 feet

Record
Count:

UTMNAD83 Radius Search (in meters):

Easting (X): 653873.83

Northing (Y): 3619767.72

Radius: 1000

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1/28/19 9:54 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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

 \mathbf{X}

L 13333 POD1

33 18S 36E 654191 3620085

Driller License:

1186

2.00

Driller Company:

ENVIRO-DRILL, INC.

Driller Name:

HAMMER, RODNEY (LD)

Plug Date:

Drill Start Date:

05/28/2013

Drill Finish Date:

05/29/2013

Source:

Log File Date:

06/07/2013

PCW Rcv Date:

Shallow

Pump Type: Casing Size:

Pipe Discharge Size:

Depth Well:

Estimated Yield: Depth Water:

63 feet

Top Bottom Description

100 feet

Water Bearing Stratifications:

62

Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

0 60

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1/28/19 9:55 AM



Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

X

L 13333 POD2

18S 36E

654191 3620088

Driller License:

1186

Driller Company:

ENVIRO-DRILL, INC.

Driller Name:

HAMMER, RODNEY (LD)

Drill Start Date:

05/28/2013

Drill Finish Date:

05/29/2013

Plug Date:

Log File Date:

06/07/2013

PCW Rcv Date:

Shallow Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

2.00

Depth Well:

95 feet

Depth Water:

63 feet

Water Bearing Stratifications:

Top Bottom Description

63

95 Sandstone/Gravel/Conglomerate

Casing Perforations:

Bottom Top

> 54 74

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1/28/19 9:55 AM



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** O64 O16 O4 Sec Tws Rng

X

L 01550 POD2

18S 18E 654123 3620580

Driller License:

122

Driller Company:

UNKNOWN

Driller Name:

Drill Start Date:

02/23/2009

Drill Finish Date:

02/24/2009

Plug Date:

Log File Date:

03/12/2009

PCW Rcv Date:

Pipe Discharge Size:

Source:

Shallow

Pump Type: Casing Size:

5.00

Depth Well:

190 feet

Estimated Yield: Depth Water:

70 feet

Water Bearing Stratifications:

Top

Bottom Description 110 Sandstone/Gravel/Conglomerate

70 110

Sandstone/Gravel/Conglomerate 187

Casing Perforations:

Top **Bottom**

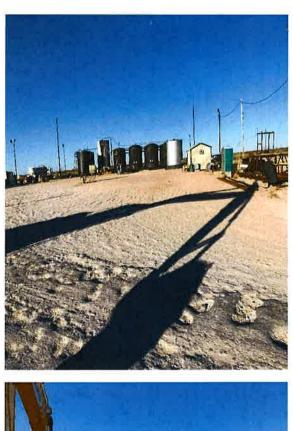
170

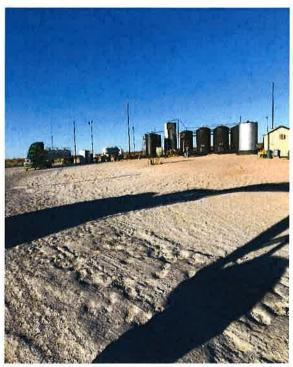
190

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1/28/19 9:56 AM

BASIN ALLIANCE STATE AJ #1 BEFORE PHOTOS









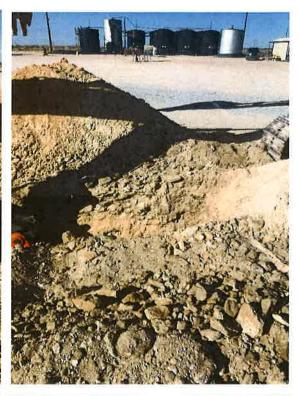




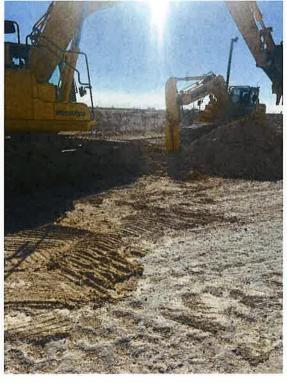












BASIN ALLIANCE STATE AJ #1 DURING PHOTOS

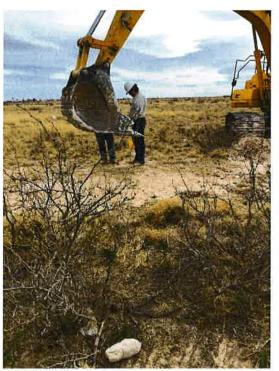
















BASIN ALLIANCE STATE AJ #1 DURING PHOTOS







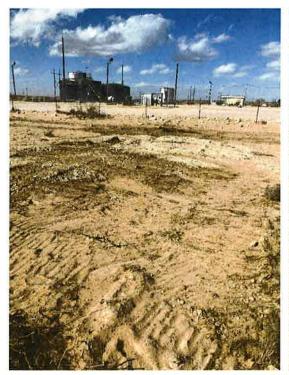


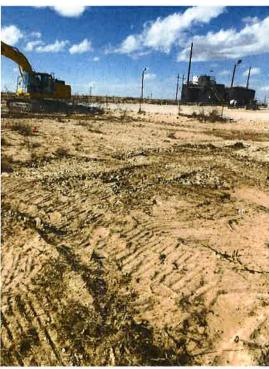
BASIN ALLIANCE STATE AJ #1 DURING PHOTOS



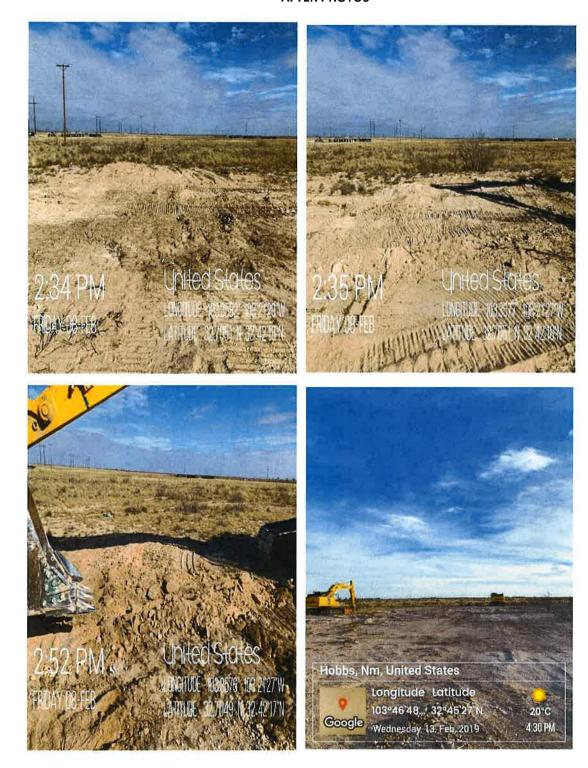
BASIN ALLIANCE STATE AJ #1 DURING PHOTOS





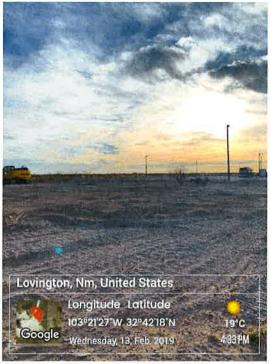


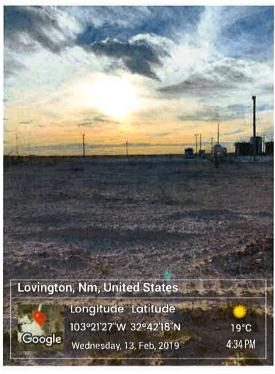
BASIN ALLIANCE STATE AJ #1 AFTER PHOTOS

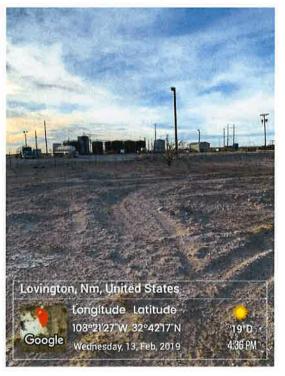


BASIN ALLIANCE STATE AJ #1 AFTER PHOTOS

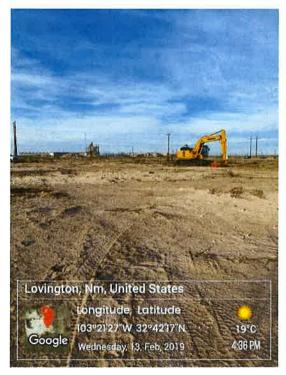


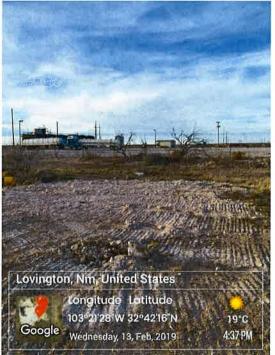


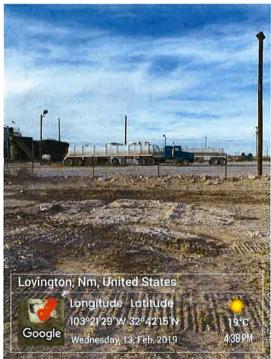


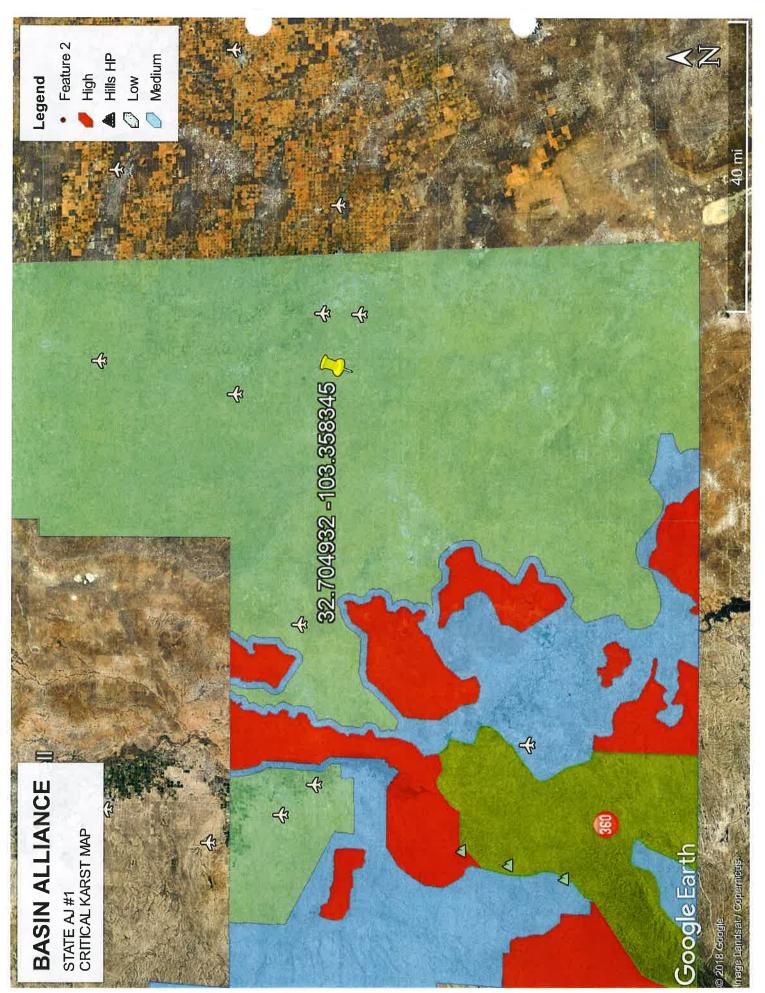


BASIN ALLIANCE STATE AJ #1 AFTER PHOTOS









Released to Imaging: 2/2/2023 7:42:49 AM

Sample ID	Ft	Field Chi	Titration	PID	Lab-Chl	Lab-BTEX	Lab-GRO	Lab-DRO	Lab-MRO	TPH	Soil	Notes
	SUR	2240		0								
	2'	640		0								
	4'	400		0								
	9	940		0								
	8'	480		0								
1/30/1	10,	480	480	0	160	<0.300	<10	<10	<10	<10	CAL	
	SUR	0969		0								
	2'	320		0								
	4,	095		0								
	9,	720		0								
	8,	095		0								
	10,	720		0								
	12'	720		0								
	14'	095		0								
1/30/1 16	16'	480	480	0	192	<0.300	<10	<10	<10	<10	N S	
	SUR	1760		0								
,	2'	400		0								
1/28/1	4,	240	400	0	128	<0.300	<10	<10	<10	<10	CAL	
	SUR	9200		0								
	2'	1200		0								
	4'	240		0								
9	9,	480		0								
1/30/1	8'	480	400	0	208	<0.300	<10	<10	<10	<10	CAL	
	SUR	1840		0								
	2'	800		0								
	4,	240		0								
	9	260		0								
1/30/1	8.	480	480	0	144	<0.300	<10	<10	<10	<10	CAL	
	SUR	3200		0								
	2'	1680		0								
,	4'	096		0								
										•		

_				CAL										CAL								CAL									CAL
				<10 (<10 (<10 (101/
				<10										<10								<10									<10
				<10										<10								<10									<10
				<10										<10								<10									<10
				<0.300										<0.300								<0.300									<0.300
	ij			112										32								260									128
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				480										360								800									400
1040	096	800	260	480	1200	2640	2400	2240	1200	880	1220	720	400	400	2240	880	260	720	1120	088	480	480	13200	1120	1200	1120	1040	800	260	260	160
∞	10,	12'	14'	1 16'	SUR	2,	4-	.9	-∞	10,	12,	14'	16'	118	SUR	2'	4,	,9	-8	10,	12'	1114	SUR	2,	4'	.9	<u>~</u>	10,	12'	14'	1116
				LAB 1/30/	SP7									LAB 1/30/	SP8							LAB 1/30/	SP9								1 AR 1/30/

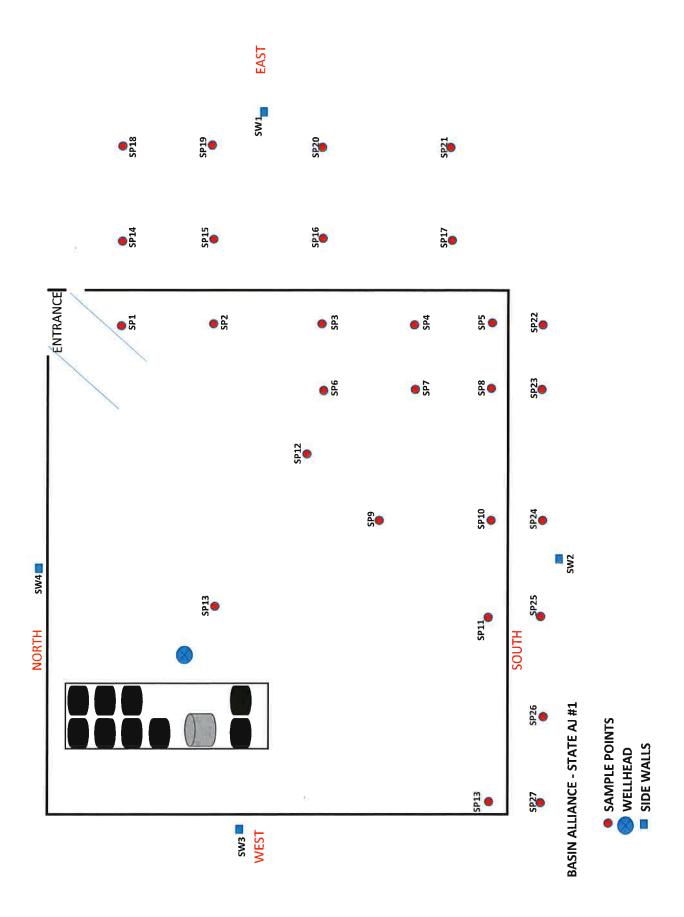
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<10			<10			<10			<10					<10							<10											<10	
<10			<10			12.1			<10					<10							<10											<10	
<10			<10			<10			<10					<10							<10											<10	
<0.300			<0.300			<0.300			<0.300					<0.300							<0.300											<0.300	
576			96			512			260					272							64		7									64	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
800			800			400			800					400							240											160	
480	480	160	160	8000	400	400	6400	480	480	1440	880	880	400	320	8400	4000	1360	1200	800	240	160	2080	1440	1280	1040	1200	1120	880	320	480	480	320	2240
4,	SUR	2'	4,	SUR	2,	4'	SUR	2,		SUR	2,	4'	.9	-,8	SUR	2'	4,	9	-8	10,	12.	SUR	2,	4	.9	-8	10,	12,	14'	16'	18,	20,	SUR
LAB 1/30/1	SP11		LAB 1/30/1	SP12		LAB 2/1/19	SP13		LAB 2/1/19	SP14				LAB 2/4/19	SP15						LAB 2/4/19	SP16										LAB 2/5/19	SP17

							<10 CAL		
							<10		
							<10		
							<10		
							<0.300	1	
							304		
0	0	0	0	0	0	0	0		
							240		
1240	1080	1080	840	1040	1120	260	480		
5,	4'	.9	-8	10,	12'	14'	LAB 2/5/19 16'		

Notes																																
Soil					CAL										CAL							CAL								CAL		
표					<10										41							<10								<10		
Lab-MRO					<10										13.2							<10								<10		
Lab-DRO					<10										27.8							<10								<10		
Lab-GRO					<10										<10							<10								<10		
Lab-BTEX					<0.300										<0.300							<0.300								<0.300		
Lab-Chi					48										416							144								208		
PID	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Titration					400										260							400								260		
Field Chi	1600	1520	800	260	400	4000	1920	096	1280	1120	640	800	720	260	480	1200	800	1120	096	640	260	400	1280	800	096	800	720	640	260	320	400	OBP
FF	S	2'	4'	9	-8	SUR	2,	4,	.9	-8	10,	12'	14'	16'	18,	SUR	2	4,	9	-8	10,	12,	SUR	2,	4'	9	-8	10,	12'	14'	SUR	1,6
Sample ID Ft Field Chil	SP18				LAB 2/8/19	SP19									LAB 2/11/3	SP20						LAB 2/11/:	SP21							LAB 2/12/3	SP22	

_	-			CAL							CAL						CAL					CAL						CAL					
				<10 C							<10 C						<10 C					<10 C						<10 C	_				
				<10							<10						<10					<10						<10					
				<10							<10						<10					<10						<10					
				<10							<10						<10					<10						<10					
				<0.300							<0.300						<0.300					<0.300						<0.300					
				96							176						48					64						64					
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				320							400						240					240						400					
1120	800	640	480	480	720	720	800	1280	1040	260	480	12560	1680	1680	880	480	400	3040	1760	096	086	320	1360	2240	1200	800	260	360	260	800	640	800	720
4'	.9	-8	10,	912	SUR	2'	4-	.9	- - - - -	10,	12,	SUR	2'	4'	.9	- - 8	910,	SUR	2,	4-	,9	18	SUR	2'	4,	.9	-8	10,	SUR	2,	4,	9	-8
				LAB 2/6/1	SP23						LAB 2/6/1	SP24					LAB 2/7/1	SP25				LAB 2/7/1	SP26					LAB 2/7/1	SP27				

F	CAL					CAL		CAL	П	SAL		CAL											
	<10					<10		<10		<10		<10						+					
	<10					<10		<10		<10		<10											
	<10					<10		<10		<10		<10											
	<10					<10		<10		<10		<10											
	<0.300					<0.300		<0.300		<0.300		<0.300											
	240					272		96		16		160											
0	0	0	0	0	0	0	0	0	0	0	0	0											
	400					400		1360		096		096											
260	400	088	880	096	480	480	320	240	400	240	400	320											
10,	1912"	SUR	1,	2'	3'	1	SUR	/:11/	SUR	/11'	SUR	/11'											
	LAB 2/8/	SW1				LAB 2/12	SW2	LAB 2/14	SW3	LAB 2/14	SW4	LAB 2/14											





January 30, 2019

ROBERT LAYTON

WHITE BUFFALO

8908 YALE AVE #210

TULSA, OK 74137

RE: STATE AJ #1

Enclosed are the results of analyses for samples received by the laboratory on 01/29/19 12:50.

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/qa/lab-accred-certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg 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 ROBERT LAYTON 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

01/29/2019

Reported: Project Name: 01/30/2019 STATE AJ #1

Project Number: Project Location: NONE GIVEN

NOT GIVEN

Sampling Date:

01/28/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 3 - 4' (H900309-01)

BTEX 8021B	mg/	kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/30/2019	ND	1.94	96.9	2.00	1.04	
Toluene*	<0.050	0.050	01/30/2019	ND	2.00	99.9	2.00	0.468	
Ethylbenzene*	<0.050	0.050	01/30/2019	ND	2.00	100	2.00	0.445	
Total Xylenes*	<0.150	0.150	01/30/2019	ND	6.10	102	6.00	0.949	
Total BTEX	<0.300	0.300	01/30/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	98.9	% 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	128	16.0	01/30/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/30/2019	ND	212	106	200	3.80	
DRO >C10-C28*	<10.0	10.0	01/30/2019	ND	220	110	200	5.00	
EXT DRO >C28-C36	<10.0	10.0	01/30/2019	ND					
Surrogate: 1-Chlorooctane	80.0 5	% 41-142							
Surrogate: 1-Chlorooctadecane	80.3	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 4



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

Chloride by SM4500CI-B does not require samples be received at or below 6°C

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

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Celey D. Keene, Lab Director/Quality Manager

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+ Cardinal rannot accept verbal channes. Dlease for written channes to IETE) 202-2228

Laboratories

101 East Marland, Hobbs, NM 88240

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished By: Relinquished By: Sampler - UPS - Bus - Other: ervice. In no event shall Cardinal be liable for incidental or malyses. 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 complesion of the applicable Project Name: Project #: Project Manager: Sampler Name: Company Name: roject Location: Phone #: Address: Delivered By: (Circle One) H900309 FOR LAB USE ONLY Lab I.D. Hobbs No. 583-4" Kathynn State Sample I.D. **NOTHTON** mentanez Date: Fax #: Project Owner: State: NH Time: 1-29-19 12°, 50 Lance 13.3° #97 Zip: G)RAB OR (C)OMP. Received By: # CONTAINERS 88240 GROUNDWATER Sample Condition Cool Intact Pes Fes WASTEWATER MATRIX 7 SOIL OIL SLUDGE loss of use, or loss of profits incurred by client, its subsidiaries, is based upon any of the above statud reasons or otherwise. City: P.O. #: Phone #: 918-660-0999 State: OK Zip: 74/37 OTHER: Attn: Shelle TYPE For Address: 8908 Valle Ave Company: White Bu ACID/BASE: PRESERV. CHECKED BY: (Inītials) B ICE / COOL BILL 70 OTHER: 2/2/0 SAMPLING DATE Phone Result: Fax Result: REMARKS: 10:12 Email: Matalie. Gladden @ white buffalo.com, Monique. Cueto @ white buffalo.com, TIME Chloudes ☐ Yes BTEX 7 ☐ No Add'l Phone #: ANALYSIS REQUEST



February 06, 2019

ROBERT LAYTON

WHITE BUFFALO

8908 YALE AVE #210

TULSA, OK 74137

RE: STATE AJ #1

Enclosed are the results of analyses for samples received by the laboratory on 01/30/19 14:30.

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 ROBERT LAYTON 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

01/30/2019

Reported: Project Name: 02/06/2019

Project Number:

STATE AJ #1 NONE GIVEN

Project Location:

BASIN ALLIANCE

Sampling Date:

01/28/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 1 - 10' (H900332-01)

BTEX 8021B	mg	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2019	ND	2.36	118	2.00	0.804	
Toluene*	<0.050	0.050	01/31/2019	ND	2.24	112	2.00	0.837	
Ethylbenzene*	<0.050	0.050	01/31/2019	ND	2.20	110	2.00	1.03	
Total Xylenes*	<0.150	0.150	01/31/2019	ND	6.73	112	6.00	1.10	
Total BTEX	<0.300	0.300	01/31/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	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	160	16.0	02/01/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2019	ND	171	85.3	200	1.48	
DRO >C10-C28*	<10.0	10.0	01/31/2019	ND	177	88.5	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	01/31/2019	ND					
Surrogate: 1-Chlorooctane	97.4	% 41-142							
Surrogate: 1-Chlorooctadecane	90.1	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 13



Analytical Results For:

WHITE BUFFALO ROBERT LAYTON 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

01/30/2019

Reported:

02/06/2019

Project Name: Project Number: STATE AJ #1 NONE GIVEN

Project Location:

BASIN ALLIANCE

Sampling Date:

01/28/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 2 - 16' (H900332-02)

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	02/03/2019	ND	2.17	108	2.00	0.766	
Toluene*	<0.050	0.050	02/03/2019	ND	2.06	103	2.00	0.165	
Ethylbenzene*	<0.050	0.050	02/03/2019	ND	2.04	102	2.00	1.83	
Total Xylenes*	<0.150	0.150	02/03/2019	ND	6.19	103	6.00	1.33	
Total BTEX	<0.300	0.300	02/03/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	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	192	16.0	02/01/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2019	ND	171	85.3	200	1.48	
DRO >C10-C28*	<10.0	10.0	01/31/2019	ND	177	88.5	200	1.49	
EXT DRO >C28-C36	<10.0	10,0	01/31/2019	ND					
Surrogate: 1-Chlorooctane	98,0	% 41-142							
Surrogate: 1-Chlorooctadecane	92.0	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 13



Analytical Results For:

WHITE BUFFALO ROBERT LAYTON 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

01/30/2019

Reported:

02/06/2019

Project Name: Project Number: STATE AJ #1 NONE GIVEN

Project Location:

BASIN ALLIANCE

Sampling Date:

01/28/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 4 - 8' (H900332-03)

BTEX 8021B	mg/	kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2019	ND	2.17	108	2.00	0.766	
Toluene*	<0.050	0.050	02/03/2019	ND	2.06	103	2.00	0.165	
Ethylbenzene*	<0.050	0.050	02/03/2019	ND	2.04	102	2.00	1.83	
Total Xylenes*	<0.150	0.150	02/03/2019	ND	6.19	103	6.00	1.33	
Total BTEX	<0.300	0.300	02/03/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.1 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	02/01/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2019	ND	171	85.3	200	1.48	
DRO >C10-C28*	<10.0	10.0	01/31/2019	ND	177	88.5	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	01/31/2019	ND					
Surrogate: 1-Chlorooctane	94.3 %	6 41-142							
Surrogate: 1-Chlorooctadecane	88.2 %	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

Page 4 of 13



Analytical Results For:

WHITE BUFFALO ROBERT LAYTON 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

01/30/2019

Reported:

02/06/2019 STATE AJ #1

Project Name: Project Number:

NONE GIVEN

Project Location:

BASIN ALLIANCE

Sampling Date:

Date: 01/

Sampling Type:

Sampling Condition: Sample Received By: 01/28/2019

Soil

Cool & Intact

Tamara Oldaker

Sample ID: SP 5 - 8' (H900332-04)

BTEX 8021B	mg,	kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2019	ND	2.17	108	2.00	0.766	
Toluene*	<0.050	0.050	02/03/2019	ND	2.06	103	2.00	0.165	
Ethylbenzene*	<0.050	0.050	02/03/2019	ND	2.04	102	2.00	1.83	
Total Xylenes*	<0.150	0.150	02/03/2019	ND	6.19	103	6.00	1,33	
Total BTEX	<0,300	0.300	02/03/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/01/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2019	ND	171	85.3	200	1.48	
DRO >C10-C28*	<10.0	10.0	01/31/2019	ND	177	88.5	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	01/31/2019	ND					
Surrogate: 1-Chlorooctane	97.1	% 41-142							
Surrogate: 1-Chlorooctadecane	92.4	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

Page 5 of 13



Analytical Results For:

WHITE BUFFALO ROBERT LAYTON 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

01/30/2019

Reported:

02/06/2019

Project Name: Project Number: STATE AJ #1 NONE GIVEN

Project Location:

BASIN ALLIANCE

Sampling Date:

Sampling Type:

01/28/2019 Soil

5

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 6 - 16' (H900332-05)

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	02/03/2019	ND	2.17	108	2.00	0.766	
Toluene*	<0.050	0.050	02/03/2019	ND	2.06	103	2.00	0.165	
Ethylbenzene*	<0.050	0.050	02/03/2019	ND	2.04	102	2.00	1.83	
Total Xylenes*	<0.150	0.150	02/03/2019	ND	6.19	103	6.00	1.33	
Total BTEX	<0.300	0.300	02/03/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.5 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	02/01/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2019	ND	171	85.3	200	1.48	
DRO >C10-C28*	<10.0	10.0	01/31/2019	ND	177	88.5	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	01/31/2019	ND					
Surrogate: 1-Chlorooctane	94.2 %	% 41-142							
Surrogate: 1-Chlorooctadecane	90,7 9	6 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO ROBERT LAYTON 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

01/30/2019

Reported:

02/06/2019

Project Name: Project Number: STATE AJ #1 NONE GIVEN

Project Location:

BASIN ALLIANCE

Sampling Date:

01/28/2019

Sampling Type: Sampling Condition: Soil

Sample Received By:

Cool & Intact

Tamara Oldaker

Sample ID: SP 7 - 18' (H900332-06)

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	02/03/2019	ND	2.17	108	2.00	0.766	
Toluene*	<0.050	0.050	02/03/2019	ND	2.06	103	2.00	0.165	
Ethylbenzene*	<0.050	0.050	02/03/2019	ND	2.04	102	2.00	1.83	
Total Xylenes*	<0.150	0.150	02/03/2019	ND	6.19	103	6.00	1.33	
Total BTEX	<0.300	0.300	02/03/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	101 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/01/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2019	ND	171	85.3	200	1.48	
DRO >C10-C28*	<10.0	10.0	01/31/2019	ND	177	88.5	200	1.49	
EXT DRO >C28-C36	<10.0	10.0	01/31/2019	ND					
Surrogate: 1-Chlorooctane	91.7	% 41-142	1						
Surrogate: 1-Chlorooctadecane	87.5	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO ROBERT LAYTON 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

RTFY 8021B

01/30/2019

02/06/2019

Sampling Date: Sampling Type: 01/28/2019

Reported: Project Name:

STATE AJ #1

Soil

Project Number:

NONE GIVEN

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

Project Location:

BASIN ALLIANCE

ma/ka

Sample ID: SP 8 - 14' (H900332-07)

RPD 0.766 0.165 1.83 1.33	Qualifier
0.165 1.83	
1.83	
1.33	
RPD	Qualifier
3.77	
RPD	Qualifier
1.48	
1.49	
	1.15

Analyzed By: ms

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

WHITE BUFFALO ROBERT LAYTON 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

01/30/2019

Reported:

02/06/2019

Project Name: Project Number: STATE AJ #1 NONE GIVEN

Project Location:

BASIN ALLIANCE

Sampling Date:

01/28/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 9 - 16' (H900332-08)

BTEX 8021B	mg,	'kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2019	ND	2.17	108	2.00	0.766	
Toluene*	<0.050	0.050	02/03/2019	ND	2.06	103	2.00	0.165	
Ethylbenzene*	<0.050	0.050	02/03/2019	ND	2.04	102	2.00	1.83	
Total Xylenes*	<0.150	0.150	02/03/2019	ND	6.19	103	6.00	1.33	
Total BTEX	<0.300	0.300	02/03/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	101 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	02/01/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2019	ND	207	104	200	1.85	
DRO >C10-C28*	<10.0	10.0	01/31/2019	ND	199	99.3	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/31/2019	ND					
Surrogate: 1-Chlorooctane	94.7	% 41-142							
Surrogate: 1-Chlorooctadecane	92.0	% 37.6-14	7						

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Analytical Results For:

WHITE BUFFALO ROBERT LAYTON 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received: Reported:

01/30/2019

Project Name:

BTEX 8021B

02/06/2019

Project Number:

STATE AJ #1 NONE GIVEN

Project Location:

BASIN ALLIANCE

ma/ka

91.6%

37.6-147

Sampling Date:

01/28/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 10 - 4' (H900332-09)

Benzene* <0.050	DIEX 8021B	mg/	кд	Anaiyze	ea by: ms					
Toluene* <0.050	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Ethylbenzene* <0.050 0.050 02/03/2019 ND 2.04 102 2.00 1.83 Total Xylenes* <0.150	Benzene*	<0.050	0.050	02/03/2019	ND	2.17	108	2.00	0.766	
Total Xylenes* <0.150 0.150 02/03/2019 ND 6.19 103 6.00 1.33 Total BTEX <0.300	Toluene*	<0.050	0.050	02/03/2019	ND	2.06	103	2.00	0.165	
Total BTEX <0.300 0.300 02/03/2019 ND Surrogate: 4-Bromofluorobenzene (PIC py.0 % 73.3-129) Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit negroting Limit n	Ethylbenzene*	<0.050	0.050	02/03/2019	ND	2,04	102	2.00	1.83	
Surrogate: 4-Bromofluorobenzene (PIC Chloride, SM4500Cl-B 99.0 % mg/kg 73.3-129 Analyte Result Reporting Limit Reporting Limit PH B015M Analyzed Py: AC Method Blank BS (Mecovery) True Value QC RPD (Method Blank B015M) Result Reporting Limit PH B015M Method Blank BS (Mecovery) True Value QC RPD (Method Blank B015M) Result Reporting Limit Analyzed Method Blank BS (Mecovery) True Value QC RPD (Method Blank B015M) Result Reporting Limit Analyzed Method Blank BS (Mecovery) RPD (Method Blank B015M) Result Reporting Limit Analyzed Method Blank BS (Mecovery) RPD (Method Blank B015M) Result Reporting Limit Analyzed Method Blank BS (Mecovery) RPD (Method Blank B015M) Result Reporting Limit Analyzed Method Blank BS (Mecovery) RPD (Method Blank B015M) Result Reporting Limit Analyzed Method Blank BS (Mecovery) RPD (Method Blank B015M) Result Reporting Limit Analyzed Method Blank BS (Mecovery) RPD (Method Blank B015M) Result Reporting Limit Analyzed Method Blank BS (Mecovery) RPD (Method Blank B015M) Result Reporting Limit Analyzed Method Blank BS (Mecovery) RPD (Method Blank B015M) Result Reporting Limit Analyzed BY: MS GRO C6-C10* C10.0 10.0 01/31/2019 ND ND 199 99.3 200 2.42 EXT DRO >C28-C36 C10.0 10.0 01/31/2019 ND	Total Xylenes*	<0.150	0.150	02/03/2019	ND	6.19	103	6.00	1.33	
Chloride, SM4500Cl-B mg/kg Analyzed by: AC Analyte Result Reporting Limit Reporting Limit Analyzed Method Blank BS Recovery ND 416 104 400 3.77 Chloride 576 16.0 02/01/2019 ND 416 104 400 3.77 TPH 8015M mg/kg Analyzed By: MS Analyte Result Reporting Limit Reporting Limit Analyzed Method Blank BS Recovery True Value QC RPD RPD GRO C6-C10* <10.0 10.0 01/31/2019 ND 207 104 200 1.85	Total BTEX	<0.300	0.300	02/03/2019	ND					
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Chloride 576 16.0 02/01/2019 ND 416 104 400 3.77 TPH 8015M mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD GRO C6-C10* < 10.0 10.0 01/31/2019 ND 207 104 200 1.85 DRO >C10-C28* < 10.0 10.0 01/31/2019 ND 199 99.3 200 2.42 EXT DRO >C28-C36 < 10.0 10.0 01/31/2019 ND	Surrogate: 4-Bromofluorobenzene (PIC	99.0	% 73.3-12	9						
Chloride 576 16.0 02/01/2019 ND 416 104 400 3.77 TPH 8015M mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD GRO C6-C10* <10.0	Chloride, SM4500CI-B	mg/	kg	Analyze	ed By: AC					
TPH 8015M mg/kg Analyzed by: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD GRO C6-C10* <10.0	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD GRO C6-C10* <10.0 10.0 01/31/2019 ND 207 104 200 1.85 DRO >C10-C28* <10.0 10.0 01/31/2019 ND 199 99.3 200 2.42 EXT DRO >C28-C36 <10.0 10.0 01/31/2019 ND	Chloride	576	16.0	02/01/2019	ND	416	104	400	3.77	
GRO C6-C10* <10.0 10.0 01/31/2019 ND 207 104 200 1.85 DRO >C10-C28* <10.0 10.0 01/31/2019 ND 199 99.3 200 2.42 EXT DRO >C28-C36 <10.0 10.0 01/31/2019 ND	TPH 8015M	mg/	'kg	Analyze	ed By: MS					
DRO >C10-C28* <10.0 10.0 01/31/2019 ND 199 99.3 200 2.42 EXT DRO >C28-C36 <10.0 10.0 01/31/2019 ND	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
EXT DRO >C28-C36 <10.0 10.0 01/31/2019 ND	GRO C6-C10*	<10.0	10.0	01/31/2019	ND	207	104	200	1.85	
	DRO >C10-C28*	<10.0	10.0	01/31/2019	ND	199	99.3	200	2.42	
Surrogate: 1-Chlorooctane 94.1 % 41-142	EXT DRO >C28-C36	<10.0	10.0	01/31/2019	ND					
	Surrogate: 1-Chlorooctane	94.1	% 41-142	?						

Analyzed By: mc

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Celey D. Keene, Lab Director/Quality Manager

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Surrogate: 1-Chlorooctadecane



Analytical Results For:

WHITE BUFFALO ROBERT LAYTON 8908 YALE AVE #210 TULSA OK, 74137

Fax To:

Received:

01/30/2019

Reported:

02/06/2019

Project Name: Project Number:

STATE AJ #1 NONE GIVEN

Project Location:

BASIN ALLIANCE

Sampling Date:

01/28/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 11 - 4' (H900332-10)

BTEX 8021B	mg/	kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2019	ND	2.19	110	2.00	1.83	
Toluene*	<0.050	0.050	02/01/2019	ND	2.10	105	2.00	2.97	
Ethylbenzene*	<0.050	0.050	02/01/2019	ND	2.06	103	2.00	3.15	
Total Xylenes*	<0.150	0.150	02/01/2019	ND	5.99	99.8	6.00	0.740	
Total BTEX	<0.300	0.300	02/01/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	97.7 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	96.0	16.0	02/01/2019	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2019	ND	207	104	200	1.85	
DRO >C10-C28*	<10.0	10.0	01/31/2019	ND	199	99.3	200	2.42	
EXT DRO >C28-C36	<10.0	10.0	01/31/2019	NĐ					
Surrogate: 1-Chlorooctane	88.1 %	6 41-142							
Surrogate: 1-Chlorooctadecane	86.9 9	6 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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Page 13 of aboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Project Manager: Kobut Koutton		P.O. #:	8)1:1-70	Manufacture (ANALYSIS REQUEST
ess: Box 1378			With Bulle	6		
Hoobs	7 Zip: 88240		Attn: View Me Farly	3		
Phone #: Fax #:		Address: 8408 Malle	108 your Kin	10.20		
ame:		2	74/37			
Project Location: Store AT #1		Phone #: 9/	Phone #: 9/8-660-099	0		
Sampler Name:		Fax #:)	_	
FOR LAB USE ONLY	Ī	MATRIX PRESERV	SAMPLING	les		
Lab I.D. Sample I.D.	RAB OR (C)OMP DNTAINERS DUNDWATER STEWATER	DGE IER : D/BASE: / COOL IER ;		hlorid	BTEX	
1 591-10'	- 11	S C A	1-88198-15	,	7	
	ر د د	,		1	1	
3504-8"	19	,	125:01 BLACE	7	1	
4 5P5-8'	1 1 2	1	18:11. 51.8F	1	1	
5 5Ph- 16'	611		1379 1:18	1	1	
6 SP7-18'	61 -	-	1350 PISE	1	1	
-1 SP8- 14'	G 1 -		1-28-14 Q 148	71	1	
2 Sed. 16.	F		7 11 67XC-1	7	1	
1 -014c	- 2		PIXE-	1	1	
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	Received By:	1110	-		és 🗆 No	Add'l Phone 共 Add'l Fax 共
Rellinquished By: On KMUZ Time: 30	Received By:	na celdur.	REMARKS:	nail:	nie Cale	il the Gladden & white buffelo.com
Time:				ntold.	Cue C	eto @ whe
Delivered By: (Circle One)	Samp	Sample Condition CHECK Cool Intact (Init	CHECKED BY: (Initials)	Julon	Just .	•

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

1300

松

Sample Condition
Cool Intact
Carles Tres
No No

CHECKED BY: (Initials) YG,

Released to Imaging: 2/2/2023 7:42:49 AM



February 04, 2019

ROBERT LAYTON

WHITE BUFFALO

8908 YALE AVE #210

TULSA, OK 74137

RE: STATE AJ #1

Enclosed are the results of analyses for samples received by the laboratory on 02/01/19 16:20.

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 accredited 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.

Celeg & 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 ROBERT LAYTON 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

02/01/2019

Reported: Project Name: 02/04/2019 STATE AJ #1

Project Number:

NONE GIVEN

Project Location:

BASIN ALLIANCE

Sampling Date:

01/30/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 12 - 4' (H900377-01)

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	02/03/2019	ND	2.20	110	2.00	1.59	
Toluene*	<0.050	0.050	02/03/2019	ND	2.08	104	2.00	1.66	
Ethylbenzene*	<0.050	0.050	02/03/2019	ND	2.03	101	2.00	1.08	
Total Xylenes*	<0.150	0.150	02/03/2019	ND	6.31	105	6.00	0.689	
Total BTEX	<0.300	0.300	02/03/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	101 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	512	16.0	02/04/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2019	ND	176	88.0	200	1.97	
DRO >C10-C28*	12.1	10.0	02/03/2019	ND	186	93.1	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	02/03/2019	ND					
Surrogate: 1-Chlorooctane	86.8	% 41-142							
Surrogate: I-Chlorooctadecane	82.5	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 5



Analytical Results For:

WHITE BUFFALO ROBERT LAYTON 8908 YALE AVE #210 TULSA OK, 74137

Fax To:

Received: Reported: 02/01/2019

02/04/2019

Project Name: Project Number:

STATE AJ #1 NONE GIVEN

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: Soil Cool & Intact

Tamara Oldaker

01/30/2019

Project Location:

BASIN ALLIANCE

Sample ID: SP 13 - 4' (H900377-02)

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	02/03/2019	ND	2.20	110	2.00	1.59	
Toluene*	<0.050	0.050	02/03/2019	ND	2.08	104	2.00	1.66	
Ethylbenzene*	<0.050	0.050	02/03/2019	ND	2.03	101	2.00	1.08	
Total Xylenes*	<0.150	0.150	02/03/2019	ND	6.31	105	6.00	0.689	
Total BTEX	<0.300	0.300	02/03/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	101	% 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	560	16.0	02/04/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/03/2019	ND	176	88.0	200	1.97	
DRO >C10-C28*	<10.0	10.0	02/03/2019	ND	186	93.1	200	1.62	
EXT DRO >C28-C36	<10.0	10,0	02/03/2019	ND					
Surrogate: 1-Chlorooctane	89.9	% 41-142							
Surrogate: 1-Chlorooctadecane	84.4	% 37.6-14	7						

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 5



Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
20	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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Celey T. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 5

* Rush

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

IN ZID: 88240 Attn: Sheve TYNCFORM Address: 8908 yoll ANTER Phone & 78-1640 0999 PRESERV SAMPLING PROPERTY				ないいいん	No No No	hannes Diagon favur	Cardinal cannot accept varied channes Diasea tavurittan channes to 15751 202-2725	+ Cardinal
Address: Box 1318 Sale: MM Zip 88240 Atm. Sleite TYPE TO MAIL Builded Chi: Hobbes Project Name: Project Name: Project Location: State At # Project Owner: P	g a m - lo	longue, cuer	75		Sample Condition Cool Intact Pres Tres	16.80 than		Delivered By Sampler - UPS
Address: Box 1378 Sale: MM Zir. 88240 Atm: Sleve TYNC GAM. Phone 8: Fax 8: Fax 8: Address: Box 4 Million The Bullato Phone 8: Fax 8: Address: Box 4 Million The Bullato Project Location: State Att 4 Million The Bullato Sample Location State Att 4 Million The Bul	den @white buffelo.co L.Ch.ite buffelo.co	atalie. Glade	Email.		ved By:		şy:	Kennquisted b
Address: Box 1318 State: NM Zp: 88240 Atm. Serie: TWATE Bullado Phone #: Fax#: Pax#: Address: BOO Line: TWATE Bullado Phone #: Fax#: Project Owner: Christian William Wil	dd'l Phone #: dd'l Fax #:	☐ Yes ☐ No Ac	Fax Result: REMARKS:	alden .	amora Mi	6.70	Manlanaz	hallym
Chlorides 6 STEX TPH			Sent, its subsidiaries,	e, or loss of profits incurred by a	ation, business interruptions, loss of us release of whether such claim is passed VBd BV:	quental damages, including without limi of sarvines hereunder by Cardinal, race Date: Recei	Cardinal be lable for incidental or consessing out of or related to the performance by:	Relinquished B
Sample I.D. Sampl			d by the dilent for the	sall be limited to the amount pail by Cardinal within 30 days after	ing whether based in contract or tort, a sed unless made in writing and receives	ant's exclusive remedy for any claim and	and Damages. Cardinal's fability and clining those for negligence and any other	PLEASE NOTE: Habity
Sample I.D. Sample I.D. Sample I.D. Sample I.D. State: All zip: 88240 Attn: She iz TYNC For him Project Owner: State: OK zip: 74137 Phone # 918-040-0999 GIV SOIL SLUDGE OTHER: AGIOMASE:								
Sample I.D. Sampl								
Sample I.D. Sampl								
Sample I.D. Sampl								
Sample I.D. Sampl							3,0	,
State: NM Zip: 88240 Attn: Steve TYCFONTAN Fax#: Address: 8908 Uple Ave 20 State: NM Zip: 88240 Attn: Steve TYCFONTAN Fax#: Address: 8908 Uple Ave 20 State: OK Zip: 74/37 Fax #: Soil Oil Studge OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL OTHER: DATE TIME Character Time T			A GOTh	1-30-19	<	2 2	2000	4-
Sample I.D. State: NM zip: 88240 Attn: Steve TYC For Jin Address: 8908 Uple Ave zip: 74/37 Project Owner: City: Julio Offer Jin State: OK zip: 74/37 Phone # 9/8-blo -0999 Phone # 9/8-blo -0999 Phone # 9/8-blo -0999 Phone # 9/8-blo -0999 PRESERVI SAMPLING BY ANTRIX PRESERVI SAMPLING PRESERVI SAMPLING PHONE # 1800 LEX PHONE #		7	TIME	ICE /	WAS SOIL OIL SLUI	_	700	H90037
Sox 1378 State: MM Zip: 88240 Address: 8908 yelle Avet 210 Project Owner: Project Owner: State: OK Zip: 74/37 Phone # 918-640-0999 **TATRIX PRESERV! SAMPLING **TA		BTE	hla	COOL	TEWATER OGE ER	AB OR (C)C	Sample I	Lab I.D.
Sox 1378 State: MM zip: 88240 Address: 8908 yolk Ave 210 Project Owner: City: Julio State: OK zip: 74/37 Rotlyn Montance Fax#: Fax#: Fax#: Fax#: Fax#: Phone # 918-660-0999		X			MATRIX	DMP.		CALL CARE
Sox 1378 State: NM zip: 88240 Address: 8908 Uple Avet 210 Project Owner: City: Julio State: OK zip: 74/37 Phone #: 918-1660-0999					Fau		X	Sampler Name
Sox 1378 State: NM zip: 88240 Fax#: Project Owner: State: OK zip: 74/37			-0999	ne # 918-66	Pho	7#1	on: State A	Project Location
Box 1378 State: NM zip: 88240 Address: 8908 Uple Avet 20 Project Owner: City: Julio			137	e: OK Zip: 72	Stat			Project Name:
Tanager: Kobuxi Kayton F.O. #: Company: White Bullato Tobbs State: NM Zip: 88240 Attn: Steve Tryc For In Address: 8908 Unite Avet 200				4	City	Project Owner:		Project #:
* 1378 State: NM Zip: 88240 Attn: Shelle TYCForting			100	ress: 8908 Up				Phone #:
X 1378 Company: White B., 11-10			1	Steve Type		Z	8	F
Kebusi Charton P.O.#			-	pany: White	Con	C		
					P.0	Souton		Project Manag



February 05, 2019

ROBERT LAYTON

WHITE BUFFALO

8908 YALE AVE #210

TULSA, OK 74137

RE: STATE AJ #1

Enclosed are the results of analyses for samples received by the laboratory on 02/04/19 16:17.

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.

Celeg 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 ROBERT LAYTON 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

02/04/2019

Reported: Project Name:

02/05/2019 STATE AJ #1

Project Number: Project Location: NONE GIVEN **BASIN ALLIANCE** Sampling Date:

02/01/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By:

Cool & Intact

Tamara Oldaker

Sample ID: SP 14 - 8' (H900392-01)

BTEX 8021B	mg	/kg	Analyz	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2019	ND	2.17	109	2.00	1.97	Q
Toluene*	<0.050	0.050	02/05/2019	ND	2.06	103	2.00	0.641	
Ethylbenzene*	<0.050	0.050	02/05/2019	ND	2.00	100	2.00	0.904	
Total Xylenes*	<0.150	0.150	02/05/2019	ND	6,23	104	6.00	1.21	
Total BTEX	<0.300	0.300	02/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 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	272	16.0	02/05/2019	ND	432	108	400	3,64	,
TPH 8015M	mg/	kg	Analyze	d By: MS				-121	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/05/2019	ND	204	102	200	5.63	•
DRO >C10-C28*	<10.0	10.0	02/05/2019	ND	202	101	200	4.89	
EXT DRO >C28-C36	<10.0	10.0	02/05/2019	ND				1103	
Surrogate: 1-Chlorooctane	102 %	6 41-142							
Surrogate: 1-Chlorooctadecane	104 %	37.6-147	,						

Cardinal Laboratories

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Celley & tream

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 5



Analytical Results For:

WHITE BUFFALO ROBERT LAYTON 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

02/04/2019

Reported: Project Name: 02/05/2019

Project Number:

STATE AJ #1 NONE GIVEN

Project Location:

BASIN ALLIANCE

Sampling Date:

02/01/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 15 - 12' (H900392-02)

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	02/05/2019	ND	2.17	109	2.00	1.97	
Toluene*	<0.050	0.050	02/05/2019	ND	2.06	103	2.00	0.641	
Ethylbenzene*	<0.050	0.050	02/05/2019	ND	2.00	100	2.00	0.904	
Total Xylenes*	<0.150	0.150	02/05/2019	ND	6.23	104	6.00	1.21	
Total BTEX	<0.300	0.300	02/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/05/2019	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	02/05/2019	ND	204	102	200	5.63	
DRO >C10-C28*	<10.0	10.0	02/05/2019	ND	202	101	200	4.89	
EXT DRO >C28-C36	<10.0	10.0	02/05/2019	ND					

Surrogate: 1-Chlorooctadecane

Surrogate: 1-Chlorooctane

99.4%

102 %

41-142 37.6-147

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 5



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.
99	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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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 5

Date: Time:

Received By:

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* RUSH *

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Down	Misonce	BILL IO ANALYSIS REQUEST
Project Manager: Robert	Layton	
Address: Box 1378	ď	company: White Bullallo
	State: NM Zip: 88240	-
Phone #:	Fax#:	Address: 8908 Vale Ave 210
Project#:	Project Owner:	
Project Name:		State: OK Zip: 74/37
Project Location: State A	AT#1	18-660-0999
Sampler Name:	rique Cuerto	_
FOR LAB USE ONLY		
Lab I.D. Sample I.D.	BOR (C)OMP NTAINERS UNDWATER EWATER	R: BASE: COOL
H900362	# CC	OTH ACIE ICE / OTH DATE
Dr.#-8	<u>-</u>	(2)/s 1:46 / / /
2 SPIS-12'	-	7 2/1/n 11:09 X X X
PLEASE NOTE: Liability and Carnages. Cardinal's liability and unalyses. All claims including those for negligence and any oth service. In no event shall Cardinal be liable for incidental or conference in no event shall Cardinal be liable for incidental or conference.	PLEASE NOTE: Liability and Damages. Cardina's liability and officer's exclusive remody for any claim aiding whether based in contract or lart, shall be limited to the arrabut paid by the disent for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in witting and received by Cardinal within 30 days after completion of the agreement and control of the property of the proper	PLEASE NOTE: Lithility and Daminger, Cardinal's liability and client's exclusive remody for any client based in contract or fun, shall be limited to the amount paid by the disks for the amount paid by the disks for the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in witing and received by Cardinal within 30 days after completion of the applicable source. In no event shall be for incidental or consequental demages, including whole familiation, business interruptions, loss of use, or less of profits incurred by client, its substituting and incidental or consequental demages, including whole familiation, business interruptions, loss of use, or less of profits incurred by client, its substituting and profits and incidental or consequental demages, including whole familiation, business interruptions, loss of use, or less of profits incurred by client, its substitutions.
Relinquished By:		Phone Result: Yes No Add'l Phone #: Fax Result: Yes No Add'l Fax #:
Relinquisted By:	Date: Received By:	small formail: in the Company to but the but the com

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

0.60

Sample Condition
Cool Intact
Pyes Pyes
No No

CHECKED BY: (Initials) 9

rmal Matalie. Gladden @ white buffalo cam, Mongue. Cueto @ white buffalo cam,



February 06, 2019

ROBERT LAYTON

WHITE BUFFALO

8908 YALE AVE #210

TULSA, OK 74137

RE: STATE AJ #1

Enclosed are the results of analyses for samples received by the laboratory on 02/05/19 14:55.

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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

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 ROBERT LAYTON 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

02/05/2019

Reported:

02/06/2019 STATE AJ #1

Project Name: Project Number: Project Location:

NONE GIVEN

BASIN ALLIANCE

Sampling Date:

02/04/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 16 - 20' (H900433-01)

BTEX 8021B	mg,	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/06/2019	ND	2.15	107	2.00	0.799	
Toluene*	<0.050	0.050	02/06/2019	ND	2,02	101	2.00	2.43	
Ethylbenzene*	<0.050	0.050	02/06/2019	ND	1.99	99.3	2.00	2.93	
Total Xylenes*	<0.150	0.150	02/06/2019	ND	6.11	102	6.00	2.51	
Total BTEX	<0.300	0.300	02/06/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	101	% 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	02/06/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/06/2019	ND	212	106	200	2.36	
DRO >C10-C28*	<10.0	10.0	02/06/2019	ND	206	103	200	8.01	
EXT DRO >C28-C36	<10.0	10.0	02/06/2019	ND					
Surrogate: 1-Chlorooctane	97.7	% 41-142							
Surrogate: 1-Chlorooctadecane	97.3	% 37.6-14	7						

*=Accredited Analyte Cardinal Laboratories

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Celley L. Frenn

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 5



Analytical Results For:

WHITE BUFFALO ROBERT LAYTON 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received: Reported: 02/05/2019

Project Name:

02/06/2019 STATE AJ #1 NONE GIVEN

Project Number: Project Location:

BASIN ALLIANCE

Sampling Date:

Sampling Type:

pe: Soil

Sampling Condition: Sample Received By: Cool & Intact

02/04/2019

Tamara Oldaker

Sample ID: SP 17 - 16' (H900433-02)

•	,								
BTEX 8021B	mg/kg		Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/06/2019	ND	2.15	107	2.00	0.799	
Toluene*	<0.050	0.050	02/06/2019	ND	2.02	101	2.00	2.43	
Ethylbenzene*	<0.050	0.050	02/06/2019	ND	1.99	99.3	2.00	2.93	
Total Xylenes*	<0.150	0.150	02/06/2019	ND	6.11	102	6.00	2.51	
Total BTEX	<0.300	0.300	02/06/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	101 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	304	16.0	02/06/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/06/2019	ND	212	106	200	2.36	
DRO >C10-C28*	<10.0	10.0	02/06/2019	ND	206	103	200	8.01	
EXT DRO >C28-C36	<10.0	10.0	02/06/2019	ND					
Surrogate: 1-Chlorooctane	95.69	% 41-142							
Surrogate: 1-Chlorooctadecane	96.2 9	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for 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 thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Kienn

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 5



Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
848	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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Celey D. Keene, Lab Director/Quality Manager

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Laboratories * N

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Delivered By: Sampler - UPS -	Relinquished By:	Relinquished By:	analyses. All claims includi service. In no event shall C afficience or successors arisi	PLEASE NOTE: Liability at					THE WALL	Lab I.D.	FOR LAB USE ONLY	Sampler Name:	Project Location:	Project Name:	/ Project #:	Phone #:	city: Holobs	Address: 5	Project Manager.	Company Name.
: (Circle One) - Bus - Other:	i la	a Mantenar	ng those for negligence and any other car arctinal be liable for incidental or consequence of or related to the performance of	nd Damages, Cardina's lieblity and offen			0)1-110	00 10 - 00	57	Sample I.D.		Kathyan	n Otota A				òs	ox 1378	Lobert	TU MADUL
-14.6° #an	Date: Received By:	Date: Received/By:	se whatsoever shall be deemed waived unle ental damages, including without limitation, b services herounder by Candhal, recardless o	's exclusive remets for any claim arising who			2	20.7	#	S)RAB OR (C)OM CONTAINERS ROUNDWATER	1P.	Montanez	5 #1		Project Owner:	Fax #:	State: NH Zip: 88	۷	Mayton	Marce
Sample Condition CHECK Cool Intact (Init	By:	DIL.	analyses. All claims including those for negligence and any other cause whatsoever shall be cleaned waived unless made in whiting and received by Cardinal within 10 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without furnishion, business interruptions, base of use, or loss of profits incurred by claim, its subsidiaries, affiliates or successors stating out of or related to the parformance of services herounder by Cardinal, recordless of whether such claim is based upon any of the above stated reasons or otherwise.	PLEASE NOTE: Liability and Darrages, Cardinals liability and clearts exclusive remains for any claim aciding whether based in common occurs cannot be included as			,	, 5	SC OI SL OT AC	ASTEWATER DIL L LUDGE THER: DID/BASE; E / COOL	MATRIX PRESERV	Fax#:	Phone #: 9	DK	city: Jul	Address: &	88240 Attn: She	Company: White	P.O. #:	<i>B</i>
CHECKED BY: //	the Email.	Phone Result	whin 30 days after completion of the appli rofits incurred by citert, its subsidiaries, the above stated reasons or otherwise.				1 80:01 bire	1 SE'S 57-7-6	DATE TIME	4 . 4	SAMPLING	0.1	00-0999	zip: 74/37	helso-	Address: 8908 Wale Ave 210	Far	White Builde		B/LL T0
Nongue, Cuero	atalie. Glædi	☐ Yes ☐ No Add	cable				7	11		BTEX TPH	-						-			ANA
of more lo	Matalie. Gladden @ white buffalo.com	Add'l Phone 非: Add'l Fax 非:																		ANALYSIS REQUEST
	Cam																			



February 08, 2019

ROBERT LAYTON

WHITE BUFFALO

8908 YALE AVE #210

TULSA, OK 74137

RE: STATE AJ #1

Enclosed are the results of analyses for samples received by the laboratory on 02/06/19 16:50.

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/qa/lab-accred-certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg & Keens

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 ROBERT LAYTON 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

02/06/2019

Reported:

02/08/2019

Project Name: Project Number: STATE AJ #1 NONE GIVEN

Project Location:

BASIN ALLIANCE

Sampling Date:

02/05/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SP 22 - 12' (H900471-01)

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	02/08/2019	ND	2.19	109	2.00	1.55	
Toluene*	<0.050	0.050	02/08/2019	ND	2.22	111	2.00	0.771	
Ethylbenzene*	<0.050	0.050	02/08/2019	ND	2,21	110	2.00	1.42	
Total Xylenes*	<0.150	0.150	02/08/2019	ND	6.27	104	6.00	1.53	
Total BTEX	<0.300	0.300	02/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	93.6	% 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	96.0	16.0	02/07/2019	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	02/07/2019	ND	198	99.0	200	1.03	
DRO >C10-C28*	<10.0	10.0	02/07/2019	ND	213	106	200	0.701	
EXT DRO >C28-C36	<10.0	10.0	02/07/2019	NĐ					
Surrogate: 1-Chlorooctane	91.4	% 41-142							
Surrogate: 1-Chlorooctadecane	95,3 9	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 5



Analytical Results For:

WHITE BUFFALO ROBERT LAYTON 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

02/06/2019

Reported:

02/08/2019

Project Name: Project Number: STATE AJ #1 NONE GIVEN

Project Location:

BASIN ALLIANCE

Sampling Date:

Sampling Type:

02/05/2019

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Soil

Sample ID: SP 23 - 12' (H900471-02)

BTEX 8021B	mg	/kg	Analyz	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/08/2019	ND	2.19	109	2.00	1.55	
Toluene*	<0.050	0.050	02/08/2019	ND	2.22	111	2.00	0.771	
Ethylbenzene*	<0.050	0.050	02/08/2019	ND	2.21	110	2.00	1.42	
Total Xylenes*	<0.150	0.150	02/08/2019	ND	6.27	104	6.00	1.53	
Total BTEX	<0.300	0.300	02/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	93.1	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	02/07/2019	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	02/07/2019	ND	198	99.0	200	1.03	
DRO >C10-C28*	<10.0	10.0	02/07/2019	ND	213	106	200	0.701	
EXT DRO >C28-C36	<10.0	10.0	02/07/2019	ND					
Surrogate: 1-Chlorooctane	91.69	% 41-142							
Surrogate: 1-Chlorooctadecane	94.69	% 37.6-147	7						

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 5



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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Celey D. Keene, Lab Director/Quality Manager

Page 4 of 5

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Laboratories

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Hopen Olliance	CC B/LL/8	ANALYSIS REOLIEST
Robert of		
378		de Buffalo
State:		
Phone #: Fax #:	Address: 401 E	Broadway
Project #: Project Owner:	mer: city: Hobbs	
Project Name:	State: N.H. Zip:	88240
Project Location: Store AJ #	Phone #: 515 138-0428	138-0428
Sampler Name: Katlyno Word	ordand? Fax#: 575-7	_
FOR LAB USE ONLY	MATRIX PRES	
	ER ; /BASE: COOL	hlome 3TEX PH
H900471-	# CO GROU WAS SOIL SLUD OTHE ACID/ ICE / I	DATE TIME
0/ 0/ 0/ 10	C1 V V 2540	10 1.70 V V V
		\$
25025-18	S	77 7 50,8 6458
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analyses. All claims similarly into manages, cardinate arouny and missit excessive for by the standard graph by definition of the amount paid by the client for the analyses. All claims similarly into the second of the applicable service. In no event shall Cardinal be liable for incidental or consequents also alarnages, including which indicates interruptors, based to use, or loss of profits incurred by client, its subsidicates affiliates or successors arising out of ar related to the performance of services by found by Cardinal (page 1888).	of PDM chair stating whether based in contract or tort, shall be limited to the amount paid to be of PDM chair stating whether based in contract or tort, shall be limited to this doctor after which 30 days after or build be cleared waived unless made in whiting and received by Cardinal whitin 30 days after or build without finitiation, business into mappions, based uses, and of the actions are used to be cardinal received by chair and the stating and the sta	nount paid by the dient for the days after completion of the applicable under by plent, its subsidiaries.
Reimquished By: Danking Time :	Brechived By:	Phone Result: ax Result:
Relinquished By: Date:	Received By:	d: Matalie. C
Sampler - UPS - Bus - Other: -3.50/#97	Sample Condition CHECKED BY: Cool Intact (Intract)	**
	-	



February 08, 2019

ROBERT LAYTON

WHITE BUFFALO

8908 YALE AVE #210

TULSA, OK 74137

RE: STATE AJ #1

Enclosed are the results of analyses for samples received by the laboratory on 02/07/19 14:50.

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/qa/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited 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.

Celeg & Keene

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

Page 1 of 6



Analytical Results For:

WHITE BUFFALO ROBERT LAYTON 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received: Reported: 02/07/2019

Project Name:

02/08/2019 STATE AJ #1

Project Number: Project Location: NONE GIVEN

BASIN ALLIANCE

Sampling Date:

02/06/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 24 - 10' (H900485-01)

BTFX	8021B	

BTEX 8021B	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/08/2019	ND	2.19	109	2.00	1.55	
Toluene*	<0.050	0.050	02/08/2019	ND	2.22	111	2.00	0.771	
Ethylbenzene*	<0.050	0.050	02/08/2019	ND	2.21	110	2.00	1.42	
Total Xylenes*	<0.150	0.150	02/08/2019	ND	6.27	104	6.00	1.53	
Total BTEX	<0.300	0.300	02/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.3 9	% 73.3-12	9						
Chinalda Chiaranal D		11		d B 4.0					

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/08/2019	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/07/2019	ND	189	94.7	200	2.71	
DRO >C10-C28*	<10.0	10.0	02/07/2019	ND	182	90.9	200	11.3	
EXT DRO >C28-C36	<10.0	10.0	02/07/2019	ND					

Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane 96.0 %

41-142

105 % 37.6-147

Cardinal Laboratories *=Accredited Analyte

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Celeg t. treene

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 6



Analytical Results For:

WHITE BUFFALO ROBERT LAYTON 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

02/07/2019

Reported:

02/08/2019

Project Name:

STATE AJ #1 NONE GIVEN

Project Number: Project Location:

BASIN ALLIANCE

Sampling Date:

02/06/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 25 - 8' (H900485-02)

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	02/08/2019	ND	2.19	109	2.00	1.55	
Toluene*	<0.050	0.050	02/08/2019	ND	2.22	111	2.00	0.771	
Ethylbenzene*	<0.050	0.050	02/08/2019	ND	2.21	110	2.00	1.42	
Total Xylenes*	<0.150	0.150	02/08/2019	ND	6.27	104	6.00	1.53	
Total BTEX	<0.300	0.300	02/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/08/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/07/2019	ND	189	94.7	200	2.71	
DRO >C10-C28*	<10.0	10,0	02/07/2019	ND	182	90.9	200	11.3	
EXT DRO >C28-C36	<10.0	10.0	02/07/2019	ND					
Surrogate: 1-Chlorooctane	92.4	% 41-142							
Surrogate: 1-Chlorooctadecane	99.4	% 37.6-14	7						

Cardinal Laboratories

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PLEASE NOTE: Ulability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, nocluding, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This

Celegit Keena

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 6



Analytical Results For:

WHITE BUFFALO ROBERT LAYTON 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

02/07/2019

Reported:

02/08/2019

Project Name: Project Number: STATE AJ #1 NONE GIVEN

Project Location:

BASIN ALLIANCE

Sampling Date:

02/06/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 26 - 10' (H900485-03)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/08/2019	ND	2.19	109	2.00	1.55	
Toluene*	<0.050	0.050	02/08/2019	ND	2.22	111	2.00	0.771	
Ethylbenzene*	<0.050	0.050	02/08/2019	ND	2.21	110	2,00	1.42	
Total Xylenes*	<0.150	0.150	02/08/2019	ND	6.27	104	6.00	1.53	
Total BTEX	<0.300	0.300	02/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 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	02/08/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/07/2019	ND	189	94.7	200	2.71	
DRO >C10-C28*	<10.0	10.0	02/07/2019	ND	182	90.9	200	11.3	
EXT DRO >C28-C36	<10.0	10.0	02/07/2019	ND					
Surrogate: 1-Chlorooctane	95.5	% 41-142							
Surrogate: 1-Chlorooctadecane	104 9	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss or or ose, or loss of profits incurred by client, its subdicialines, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celegit Keina

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 6



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 SM4500CI-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

PLEASE NOTE: Uability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount pold by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of groffits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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Celey D. Keene, Lab Director/Quality Manager

Page 5 of 6

Page 6 of aboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Marines John Chillyance	6//4//	ANALYSIS REQUEST
Rabert of	P.O.#	
18	company: White Buffalo	
city: Hobbs State: NM zip: 88240	Attn:	
Phone #: Fax #:	Address: 401 E Broadway	
Project #: Project Owner:	City: Hobbas	
Project Name:	State: NH Zip: 88240	
Project Location: State AT #	Phone #: 515 138-0428	
Sampler Name: Katlynn Wartanez	Fax# 515-138-6430 3	
T	-	
Lab I.D. Sample I.D. PRAB OR (C)OM CONTAINERS ROUNDWATER ASTEWATER	OLL UDGE HER: ID/BASE: I COOL HER: BTEX	TPH
SP24-10' GII	7	,
2 5825-8' 61	- 44/19	1
3 5926-10'	7 2/4/19	1
PLEASE NOTE: Listing and Damages. Cardinal's listing and diserts exclusive remedy for any dain saiding whether based in contract or tort, shall be limbed to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsever shall be deemed valved unless made in writing and neceived by Cardinal which 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or encoexquental damages, including without limbation, business interruptions, based upon any of the based asserting and executed asserting and executed asserting and executed by Cardinal regordless of whether such obtains being because a state above stated execute or the head-of-the above stated execute or	assed in contract or forf, shall be limited to the amount paid by the client for the doe in writing and received by Centinal writin 30 days after completion of the applicable so inhomopions, less of use, or loss of profits inhumed by deer, it is subsidiaries, ther such definit is based upon any of the above stand resource or whenever.	
Received By:	H	s □ No Add'I Phone #: s □ No Add'I Fax #:
Relinquished By: Date: Received By:	inta Middle REMARKS:	Die G
THIE,		

90 00

197

Sample Condition
Cool Intact
Tes Tes
No No

40

CHECKED BY: (Initials)

Released to Imaging: 2/2/2023 7:42:49 AM

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



February 11, 2019

ROBERT LAYTON
WHITE BUFFALO

8908 YALE AVE #210

TULSA, OK 74137

RE: STATE AJ #1

Enclosed are the results of analyses for samples received by the laboratory on 02/08/19 13:30.

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 ROBERT LAYTON 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

02/08/2019

Reported:

02/11/2019

Project Name: Project Number: Project Location: STATE AJ #1 NONE GIVEN

BASIN ALLIANCE

83.1 %

37.6-147

Sampling Date:

02/07/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SP 18 - 8 (H900513-01)

BTEX 8021B	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/09/2019	ND	1.98	99.0	2.00	0.306	
Toluene*	<0.050	0.050	02/09/2019	ND	2.04	102	2.00	0.484	
Ethylbenzene*	<0.050	0.050	02/09/2019	ND	1.97	98.6	2.00	1.08	
Total Xylenes*	<0.150	0.150	02/09/2019	ND	5.73	95.5	6.00	1.39	
Total BTEX	<0.300	0.300	02/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 %	% 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	02/11/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2019	ND	203	102	200	0.793	
DRO >C10-C28*	<10.0	10.0	02/10/2019	ND	223	111	200	9,53	
EXT DRO >C28-C36	<10.0	10.0	02/10/2019	ND					
Surrogate: I-Chlorooctane	78.2 9	% 41-142							

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 5



Analytical Results For:

WHITE BUFFALO ROBERT LAYTON 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

02/08/2019

Reported:

02/11/2019

Project Name: Project Number: STATE AJ #1 NONE GIVEN

Project Location:

BASIN ALLIANCE

Sampling Date:

02/07/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SP 27 - 12 (H900513-02)

BTEX 8021B	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/09/2019	ND	1.98	99.0	2.00	0.306	
Toluene*	<0.050	0.050	02/09/2019	ND	2.04	102	2.00	0.484	
Ethylbenzene*	<0.050	0.050	02/09/2019	ND	1.97	98.6	2.00	1.08	
Total Xylenes*	<0.150	0.150	02/09/2019	ND	5.73	95.5	6.00	1.39	
Total BTEX	<0.300	0.300	02/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	91.6	% 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	240	16.0	02/11/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/10/2019	ND	203	102	200	0.793	
DRO >C10-C28*	<10.0	10.0	02/10/2019	ND	223	111	200	9.53	
EXT DRO >C28-C36	<10.0	10.0	02/10/2019	ND					
Surrogate: 1-Chlorooctane	77.9 9	% 41-142							
Surrogate: 1-Chlorooctadecane	82.1 9	% 37.6-14	7						

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for 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 thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or otherwise. Results relate only to the samples Identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories,

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 5



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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Celey D. Keene, Lab Director/Quality Manager

Page 4 of 5



RUSH!!

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Godin Ollyance	2	B/LL 70			ANALYSIS REQUEST
Project Manager:	Rabout of		P.O.#	1		
adat		88240	Attn:			
114	7		Address: 407 E Broadway	100		
Project #:	Project Owner:			4		
Project Name:			State: NH Zip: 88240			
Project Location:	State AT #	Ph		22		
Sampler Name:	Kateyna Mord	ordand Fa	Fax# 575-738-19430	-		
FOR LAB USE ONLY		MATRIX	(C)			
Lab I.D.	Sample I.D.		OOL	hloric	TEX	
H900513		# CONT	CE / CC OTHER DATE TIME	A C	B	
-	8-8199	7	PI-C-P 1	2	7	
2 <	6-160	5	_	^-	1	
PLEASE NOTE: Liability and D analyses. All claims including th service. In no event shall Cardin affiliates of successors arising o	PLEASE NOTE: Liability and Damayets. Caldina's liability and client's exclusive namedy for any claim arising whether based in contract or too, shall be finited to the amount paid by the effect for the analyses. All claims including those for negligence and any other cause whistosever shall be deemed waived unless made in writing and nervised by Cardina's within 30 days after completion of the applicable service. In no event shall Cardina's be fable for incidental or consequential damages, including without finition, business interruptions, lass of use, or loss of profits incurred by Cardina's believe or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such shall be dead upon any of the above statio respons or otherwise.	or any claim arising whether based in contract or to the deemed waived unless made in writing and rece fing without furthering business intempolens, see y Continual, regardless of whether south claim is best	rt, shall be limited to the amount paid by the client for it word by Cardinal within 30 days after exampletion of the Viscob, or closes of profits incurred by pilent, its subsidiarial statution any of the belows statisf	fent for the jopficable wbsidiaries, attenvise,		
Relinquished By:	MMMA Times: 5	Received By: Regerved By:	Phone Result Fax Result Remarks:	!	Moragia.	Tes ON Add'I Phone #: O Yes ON Add'I Fran #: Thatalie. Gladder @ white buffalo.com Thanigue. Cueto @ white buffalo.com
Delivered By: (Sampler - UPS -	(Circle One) Bus - Other: -3.50	Sample Condition Cool Infact Cool Infact Yes Yes No	CHECKED BY:	*		
+ Cardinal ra	Cardinal rannot accept workel channes Dies	Place for written channes to (ETE) 202 0206	3020208			



February 12, 2019

ROBERT LAYTON
WHITE BUFFALO

8908 YALE AVE #210

TULSA, OK 74137

RE: STATE AJ #1

Enclosed are the results of analyses for samples received by the laboratory on 02/11/19 14:05.

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/qa/lab accred certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg & 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 ROBERT LAYTON 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

02/11/2019

Reported:

02/12/2019

Project Name:

STATE AJ #1

Project Number:

NONE GIVEN

Project Location:

BASIN ALLIANCE

Sampling Date:

02/08/2019

Soil

Sampling Type:

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 19 - 18' (H900526-01)

BTEX 8021B	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2019	ND	1.97	98.7	2.00	7.12	
Toluene*	<0.050	0.050	02/11/2019	ND	1.99	99.5	2.00	4.77	
Ethylbenzene*	<0.050	0.050	02/11/2019	ND	1.95	97.4	2.00	4.35	
Total Xylenes*	<0.150	0.150	02/11/2019	ND	5.78	96.3	6.00	6.81	
Total BTEX	<0.300	0.300	02/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	02/12/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2019	ND	199	99.5	200	0.247	
DRO >C10-C28*	27.8	10.0	02/11/2019	ND	182	90.8	200	8.09	
EXT DRO >C28-C36	13.2	10.0	02/11/2019	ND					
Surrogate: 1-Chlorooctane	93.3 9	% 41-142							
Surrogate: 1-Chlorooctadecane	96.5	% 37.6-14	7						

Cardinal Laboratories

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Celly Litterna

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 5



Analytical Results For:

WHITE BUFFALO ROBERT LAYTON 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received: Reported: 02/11/2019

Project Name:

02/12/2019 STATE AJ #1 NONE GIVEN

Project Number: Project Location:

BASIN ALLIANCE

Sampling Date:

Sampling Type: Sampling Condition:

Soil

Sample Received By:

Cool & Intact

02/08/2019

Tamara Oldaker

Sample ID: SP 20 - 12' (H900526-02)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/11/2019	ND	1.97	98.7	2.00	7.12	
Toluene*	<0.050	0.050	02/11/2019	ND	1.99	99.5	2.00	4.77	
Ethylbenzene*	<0.050	0.050	02/11/2019	ND	1.95	97.4	2.00	4.35	
Total Xylenes*	<0.150	0.150	02/11/2019	ND	5.78	96.3	6.00	6.81	
Total BTEX	<0.300	0.300	02/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	93.6	% 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	144	16.0	02/12/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2019	ND	199	99.5	200	0.247	
DRO >C10-C28*	<10.0	10.0	02/11/2019	ND	182	90.8	200	8.09	
EXT DRO >C28-C36	<10.0	10.0	02/11/2019	ND					
Surrogate: 1-Chlorooctane	93.6	% 41-142							
Surrogate: 1-Chlorooctadecane	95.4	37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsever shall be deemed waived unless made in writing and received by Cardinal, within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg Litrena

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 5

QR-04



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

Notes and Definitions

The RPD for the BS/BSD was outside of historical limits, 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

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whitsoever shall be deemed walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable services. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This

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Celey D. Keene, Lab Director/Quality Manager

Page 4 of 5

Page 5 of

101 East Marland, Hobbs, NM 88240

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

PLEASE NOTE: Liability and Durrages. Cardinal's liability and clien arralyses. All dairs: including these for negligence and any other case service. In no event shall cardinal be leade for inclodental or consequing affisites or successors arising out of or related to the performance of Replinguished By:	PLEASE NOTE: Lability and Durrages. Cardinal's lability and analyses, All claims including those for negligence and any oth source. In no event shall cardinal be labels for incidental or one second and any other source. In no event shall cardinal be labels for incidental or one second action or international			C 5P20-12'	J SP19 - 18'	Lab I.D. Sample I.D.	FOR LAB USE ONLY	Sampler Name: Kotluno	Project Location: Stote A	Project Name:	Project #:	Phone #:	city: Hobbs	Address: P.O. Box 137	Project Manager: Robert	Company Name: Coopen	(575) 393-2326 FAX (575) 393-2476
Date: Received By:	Date: 1-19 Received By:	t's exclusi		<u>-</u>	-	(G)RAB OR (C)OM CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	P. MATRIX	a Mortanez	び#		Project Owner:	Fax #:	State: NM Zip: 88240	00	Soution	Opprove	AX (575) 393-2476
By: Zym	Sam a based uson any of the above stated reasons or otherwise. Phone Result Fax Result REMARKS:	ntract or tort, shall be limited to the amount paid by the client for the and received by Cardinal within 30 days after completion of ions, loss of use, or loss of profits incurred by client, its subsidiations.		7 8-8-19 2:50	14-8-61	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: DATE	PRES	Fax# 575-738-10430	Phone #: 515 138-0428	State: NH Zip: 88240		Address: 407 E Broadway		company: White Buffalo	P.O. #:	B/L_TO	
		ina no applicable ries,		1	777	Chloric BTEX TPH	de	2									
Manigut. Cueto @ whitebuffalo.com	Add'l Phone #															ANALYSIS REQUEST	



February 13, 2019

ROBERT LAYTON
WHITE BUFFALO
8908 YALE AVE #210
TULSA, OK 74137

RE: STATE AJ #1

Enclosed are the results of analyses for samples received by the laboratory on 02/12/19 15:40.

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

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

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

Accreditation applies to public drinking water matrices.

Celeg 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 ROBERT LAYTON 8908 YALE AVE #210 **TULSA OK, 74137** Fax To:

Received:

02/12/2019

Reported:

02/13/2019

Project Name: Project Number:

STATE AJ #1 NONE GIVEN

Project Location:

BASIN ALLIANCE

Sampling Date:

Soil

Sampling Type: Sampling Condition:

02/11/2019

Sample Received By:

Cool & Intact Tamara Oldaker

Sample ID: SP 21 - 14' (H900549-01)

campic 15. ci	 	(11200242	U =)
RTFY 8021R			ma/ka

BIEX 8021B	mg,	/ kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/12/2019	ND	2.24	112	2.00	1.67	
Toluene*	<0.050	0.050	02/12/2019	ND	2.15	108	2.00	3.96	
Ethylbenzene*	<0.050	0.050	02/12/2019	ND	2.09	105	2.00	1.77	
Total Xylenes*	<0.150	0.150	02/12/2019	ND	6.25	104	6.00	1.61	
Total BTEX	<0.300	0.300	02/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	97.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	02/13/2019	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/12/2019	ND	194	96.9	200	3.55	
DRO >C10-C28*	<10.0	10.0	02/12/2019	ND	163	81.7	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	02/12/2019	ND					
Surrogate: 1-Chlorooctane	88.6	% 41-142	!						
Surrogate: 1-Chlorooctadecane	90.7	% 37.6-14	7						

Analyzed By: ms

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 5



Analytical Results For:

WHITE BUFFALO ROBERT LAYTON 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received:

02/12/2019

Sampling Date: Sampling Type: 02/11/2019

Reported:

BTEX 8021B

02/13/2019

Sampling Condition:

Soil

Project Name: Project Number: STATE AJ #1 NONE GIVEN

Sample Received By:

Cool & Intact Tamara Oldaker

Project Location:

BASIN ALLIANCE

mg/kg

89.8 %

37.6-147

Sample ID: SW 1 -4' (H900549-02)

	57								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/13/2019	ND	2.24	112	2.00	1.67	
Toluene*	<0.050	0.050	02/13/2019	ND	2.15	108	2.00	3.96	
Ethylbenzene*	<0.050	0.050	02/13/2019	ND	2.09	105	2.00	1.77	
Total Xylenes*	<0.150	0.150	02/13/2019	ND	6.25	104	6.00	1.61	
Total BTEX	<0.300	0.300	02/13/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	97.9 %	73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	02/13/2019	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	02/12/2019	ND	194	96.9	200	3,55	
DRO >C10-C28*	<10.0	10.0	02/12/2019	ND	163	81.7	200	10.7	
EXT DRO >C28-C36	<10.0	10.0	02/12/2019	ND					
Surrogate: 1-Chlorooctane	87.5 %	6 41-142							

Analyzed By: ms

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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ND



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

Notes and Definitions

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

Analyte NOT DETECTED at or above the reporting limit

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* RUSH *

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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	Caber Lanton		P.O. #:		The second secon
Address: P.O. Box	1378		Company: White B	Currialo	
city: Hobbas	State: NM	Zip: 88240			
Phone #:	Fax#:		Address: 401 E Bro	Broadway	
Project #:	Project Owner:				
Project Name:			State: NH Zip: 88240	5	
Project Location: St	thata AT#	ť		0428	
Sampler Name: 人	Catlynn Mordanez		Fax# 515-138-1420	_	
FOR LAB USE ONLY		MATRIX	100	-	
		RS		anc EX	
Lab I.D.	Sample I.D.	DGE	O/BASE:	The BTI PH	, 11
H900549		# CO GRO WAS SOIL OIL SLU		TIME /	
(1) 义(2)	19	-	る上が	10:39 V V V	
1 JW	-4	7	brirg 1	11 1 N.	
PLEASE NOTE: Clabify and Damages, Q analyses. All claims including those for ne service. In no event shall Cardinal be liable	PLEASE NOTE: (labifly and Damages, Caldinal's labifly and clients exclusive remedy for any claim arising whether based in contrast or text, shall be firrited to the encum 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 Cardina within 30 days after completion of the applications. The event shall Contrast be liable for incidental or consequential damages, including without fimilation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	ny dalmaintang whether based in contract o leemed waived unless made in writing and r without finitation, business interruptions, los	tort, shall be finited to the amount paid becomed by Cardinal within 30 days after or so of use, or loss of profits incurred by Citer	y the cfert for the orroletion of the applicable nt, its subsidiaries,	
Relinquished By:		Received By:	MI III	FF	□ No Add'l Phone共 □ No Add'l Fax #:
Relinquisited By:	MPMOL TIME: 40 Date:	Received By:	Millared R	10	~ H .
Delivered By: (Circle One)	One)	Sample Condition	n CHECKED BY:		
Sampler - IIPS - Rise -	Other	Cool Intact			



February 18, 2019

ROBERT LAYTON
WHITE BUFFALO
8908 YALE AVE #210
TULSA, OK 74137

RE: STATE AJ #1

Enclosed are the results of analyses for samples received by the laboratory on 02/15/19 12:20.

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

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

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

Accreditation applies to public drinking water matrices.

Celey & Keene

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 ROBERT LAYTON 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received: Reported: 02/15/2019

Sampling Date:

02/13/2019

Project Name:

02/18/2019 STATE AJ #1 Sampling Type: Sampling Condition: Soil Cool & Intact

Project Name: Project Number:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

BASIN ALLIANCE

Sample ID: SW 2 -1' (H900615-01)

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	02/15/2019	ND	2.02	101	2.00	0.888	
Toluene*	<0.050	0.050	02/15/2019	ND	1.89	94.3	2.00	0.693	
Ethylbenzene*	<0.050	0.050	02/15/2019	ND	1,84	92.0	2.00	0.994	
Total Xylenes*	<0.150	0.150	02/15/2019	ND	5.59	93.2	6.00	1.18	
Total BTEX	<0.300	0.300	02/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	94.1	% 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	96.0	16.0	02/16/2019	ND	448	112	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	02/15/2019	ND	162	81.2	200	4.49	
DRO >C10-C28*	<10.0	10.0	02/15/2019	ND	164	82.0	200	0.823	QR-03, QM-07
EXT DRO >C28-C36	<10.0	10.0	02/15/2019	ND					
Surrogate: 1-Chlorooctane	84.8 % 41-14.		?						
Surrogate: 1-Chlorooctadecane	92.2	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 6

*=Accredited Analyte



Analytical Results For:

WHITE BUFFALO ROBERT LAYTON 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received: Reported:

BTEX 8021B

02/15/2019

Project Name: Project Number:

Project Location:

02/18/2019 STATE AJ #1 NONE GIVEN BASIN ALLIANCE

mg/kg

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: Soil Cool & Intact

02/13/2019

Tamara Oldaker

Sample ID: SW 3 -1' (H900615-02)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/15/2019	ND	2.02	101	2.00	0.888	
Toluene*	<0.050	0.050	02/15/2019	ND	1.89	94.3	2.00	0.693	
Ethylbenzene*	<0.050	0.050	02/15/2019	ND	1.84	92.0	2.00	0.994	
Total Xylenes*	<0.150	0.150	02/15/2019	ND	5.59	93.2	6.00	1.18	
Total BTEX	<0.300	0.300	02/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.1	% 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
					BS 448	% Recovery	True Value QC 400	RPD 0.00	Qualifier
Analyte	Result	Reporting Limit	Analyzed 02/16/2019	Method Blank		·	-		Qualifier
Analyte Chloride	Result	Reporting Limit	Analyzed 02/16/2019	Method Blank		·	-		Qualifier Qualifier
Analyte Chloride TPH 8015M	Result 16.0 mg/	Reporting Limit 16.0	Analyzed 02/16/2019 Analyze	Method Blank ND d By: MS	448	112	400	0.00	

ND

02/15/2019

Analyzed By: ms

Surrogate: 1-Chlorooctane 89.6 % 37.6-147 Surrogate: 1-Chlorooctadecane

<10.0

81.7 %

10.0

41-142

Cardinal Laboratories

EXT DRO >C28-C36

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 6



Analytical Results For:

WHITE BUFFALO ROBERT LAYTON 8908 YALE AVE #210 TULSA OK, 74137 Fax To:

Received: Reported: Project Name: 02/15/2019

02/18/2019

STATE AJ #1 NONE GIVEN

Project Number: Project Location:

BASIN ALLIANCE

94.9 %

37.6-147

Sampling Date:

Sampling Type:

02/13/2019 Soil

Sampling Condition:

Sample Received By:

Cool & Intact

Tamara Oldaker

Sample ID: SW 4 -1' (H900615-03)

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	02/15/2019	ND	2.02	101	2.00	0.888	
Toluene*	<0.050	0.050	02/15/2019	ND	1.89	94.3	2.00	0.693	
Ethylbenzene*	<0.050	0.050	02/15/2019	ND	1.84	92.0	2.00	0.994	
Total Xylenes*	<0.150	0.150	02/15/2019	ND	5.59	93.2	6.00	1.18	
Total BTEX	<0.300	0.300	02/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	94.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/16/2019	ND	448	112	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	02/15/2019	ND	162	81.2	200	4.49	
DRO >C10-C28*	<10.0	10.0	02/15/2019	ND	164	82.0	200	0.823	
EXT DRO >C28-C36	<10.0	10.0	02/15/2019	ND					
Surrogate: 1-Chlorooctane	90.1	% 41-142							

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

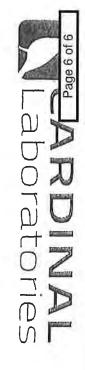
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Celey D. Keene, Lab Director/Quality Manager

Page 5 of 6

t Cardinal rannot acront workel channes. Disace for written channes to (575) 302-2325



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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--	--	---	--	---	---

Natalie Gladden

From: Billings, Bradford, EMNRD < Bradford.Billings@state.nm.us>

Sent: Tuesday, August 27, 2019 8:21 AM

To: Natalie Gladden; Rose-Coss, Dylan H, EMNRD

Cc: Jerry Brian

Subject: RE: Basin Alliance - State AJ #1 SWD

Hi,

Yes, pad is treated differently than pasture. Standard geo located sampling needs to occur for sidewalls and bottom for confirmation.

If more needed let me know.

Bradford Billings

From: Natalie Gladden <ngladden@hungry-horse.com>

Sent: Tuesday, August 27, 2019 6:49 AM

To: Billings, Bradford, EMNRD < Bradford.Billings@state.nm.us>; Rose-Coss, Dylan H, EMNRD < DylanH.Rose-

Coss@state.nm.us>

Cc: Jerry Brian <jbrian@hungry-horse.com> **Subject:** [EXT] Basin Alliance - State AJ #1 SWD

Importance: High

Good Morning,

As per our meeting last week in Santa Fe, it was determined that the pad remediation was approved as written in the Work Plan Proposal. With that being said the NMOCD would like for 4' of the pasture area to be excavated and hauled, with 4' of clean topsoil to be hauled in for backfill. This process would allow the native vegetation to take place. I have spoken to Basin Alliance and they are in line to get this done. We just need your email to confirm what was discussed.

Sincerely,

Natalie Gladden

Environmental and Regulatory Director Hungry Horse, LLC PO Box 1058 Hobbs, NM 88240 (cell) 575-390-6397

Email: ngladden@hungry-horse.com

BASIN ALLIA	ANCE	- STATE AJ	#1									
Sample ID	Ft	Field Chl	Tit	PID	Lab-Chl	Lab-BTEX	Lab-GRO	Lab-DRO	Lab-MRO	TPH	Soil	Notes
SP1	SUR	2240		0								
	2'	640		0								
	4'	400		0								
	6'	640		0								
	8'	480		0								
	10'		480	0	160	<0.300	<10	<10	<10	<10	CAL	
SP2	SUR	6960		0								
	2'	320		0								
	4'	560		0								
	6'	720		0								
	8'	560		0								
	10'	720		0								
	12'	720		0								
	14'	560		0								
	16'	480	480	0	192	<0.300	<10	<10	<10	<10	CAL	
SP3	SUR	1760		0								
	2'	400		0								
	4'	240	400	0	128	<0.300	<10	<10	<10	<10	CAL	
SP4	SUR	9200		0								
	2'	1200		0								
	4'	240		0								
	6'	480		0								
	8'		400	0	208	<0.300	<10	<10	<10	<10	CAL	
SP5	SUR	1840		0								
	2'	800		0								
	4'	240		0								
	6'	560		0								
	8'		480			<0.300	<10	<10	<10	<10	CAL	
SP6	SUR	3200		0								
	2'	1680		0								
	4'	960		0								
	6'	1200		0								

	8'	1040		0								
	10'	960		0								
	12'	800		0								
	14'	560		0								
	16'	480	480	0	112	<0.300	<10	<10	<10	<10	CAL	
SP7	SUR	1200		0								
	2'	2640		0								
	4'	2400		0								
	6'	2240		0								
	8'	1200		0								
	10'	880		0								
	12'	1220		0								
	14'	720		0								
	16'	400		0								
	18'	400	360	0	32	<0.300	<10	<10	<10	<10	CAL	
SP8	SUR	2240		0								
	2'	880		0								
	4'	560		0								
	6'	720		0								
	8'	1120		0								
	10'	880		0								
	12'	480		0								
	14'		800	0	560	<0.300	<10	<10	<10	<10	CAL	
SP9	SUR	13200		0								
	2'	1120		0								
	4'	1200		0								
	6'	1120		0								
	8'	1040		0								
	10'	800		0								
	12'	560		0								
	14'	560		0								
	16'		400		128	<0.300	<10	<10	<10	<10	CAL	
SP10	SUR	1040		0								
	2'	560		0								

4' 480 800 0 576 SP11 SUR 480 0 2' 160 0 4' 160 800 0 96 SP12 SUR 8000 0 2' 400 0	<0.300	<10	<10	<10	<10	CAL	
2' 160 0 4' 160 800 0 96 SP12 SUR 8000 0	<0.300	<10	<10				
4' 160 800 0 96 SP12 SUR 8000 0	<0.300	<10	<10				
SP12 SUR 8000 0	<0.300	<10	<10				
				<10	<10	CAL	
2' 400 0							
4' 400 400 0 512	<0.300	<10	12.1	<10	12.1	CAL	
SP13 SUR 6400 0							
2' 480 0							
4' 480 800 0 560	<0.300	<10	<10	<10	<10	CAL	
SP14 SUR 1440 0							
2' 880 0							
4' 880 0							
6' 400 0							
8' 320 400 0 272	< 0.300	<10	<10	<10	<10	CAL	
SP15 SUR 8400 0							
2' 4000 0							
4' 1360 0							
6' 1200 0							
8' 800 0							
10' 240 0							
12' 160 240 0 64	<0.300	<10	<10	<10	<10	CAL	
SP16 SUR 2080 0							
2' 1440 0							
4' 1280 0							
6' 1040 0							
8' 1200 0							
10' 1120 0							
12' 880 0							
14' 320 0							
16' 480 0							
18' 480 0							
20' 320 160 0 64	<0.300	<10	<10	<10	<10	CAL	
SP17 SUR 2240 0							

	2'	1240		0								
4	4'	1080		0								
(6'	1080		0								
	8'	840		0								
	10'	1040		0								
	12'	1120		0								
	14'	560		0								
:	16'	480	240	0	304	<0.300	<10	<10	<10	<10	CAL	
	-										·	
		·										

BASIN ALL	IANCE	- STATE AJ #	#1									
Sample ID	Ft	Field Chl	Tit	PID	Lab-Chl	Lab-BTEX	Lab-GRO	Lab-DRO	Lab-MRO	TPH	Soil	Notes
SP18	SUR	1600		0								
	2'	1520		0								
	4'	800		0								
	6'	560		0								
	8'	400		0		<0.300	<10	<10	<10	<10	CAL	
SP19	SUR	4000		0								
	2'	1920		0								
	4'	960		0								
	6'	1280		0								
	8'	1120		0								
	10'	640		0								
	12'	800		0								
	14'	720		0								
	16'	560		0								
	18'	480	560	0		<0.300	<10	27.8	13.2	41	CAL	
SP20	SUR	1200		0								
	2'	800		0								
	4'	1120		0								
	6'	960		0								
	8'	640		0								
	10'	560		0								
	12'	400	400	0		<0.300	<10	<10	<10	<10	CAL	
SP21	SUR	1280		0								
	2'	800		0								
	4'	960		0								
	6'	800		0								
	8'	720		0								
	10'	640		0								
	12'	560		0								
	14'	320	560	0		<0.300	<10	<10	<10	<10	CAL	
SP22	SUR	400		0								
	2'	960		0								

	4'	1120		0								
	6'	800		0								
	8'	640		0								
	10'	480		0								
	12'	480	320	0	96	<0.300	<10	<10	<10	<10	CAL	
SP23	SUR	720		0								
	2'	720		0								
	4'	800		0								
	6'	1280		0								
	8'	1040		0								
	10'	560		0								
	12'	480	400	0	176	<0.300	<10	<10	<10	<10	CAL	
SP24	SUR	12560		0								
	2'	1680		0								
	4'	1680		0								
	6'	880		0								
	8'	480		0								
	10'	400	240	0	48	<0.300	<10	<10	<10	<10	CAL	
SP25	SUR	3040		0								
	2'	1760		0								
	4'	960		0								
	6'	980		0								
	8'	320	240	0	64	<0.300	<10	<10	<10	<10	CAL	
SP26	SUR	1360		0								
	2'	2240		0								
	4'	1200		0								
	6'	800		0								
	8'	560		0								
	10'	360	400	0	64	<0.300	<10	<10	<10	<10	CAL	
SP27	SUR	560		0								
	2'	800		0								
	4'	640		0								
	6'	800		0								
	8'	720		0								

	1 1			_			1	1	Ī	1	1	т
	10'	560		0								
	12'	400		0		<0.300	<10	<10	<10	<10	CAL	
SW1	SUR	880		0								
	1'	880		0								
	2'	960		0								
	3'	480		0								
	4'	480	400	0	272	<0.300	<10	<10	<10	<10	CAL	
SW2	SUR	320		0								
	1'	240	1360	0	96	<0.300	<10	<10	<10	<10	CAL	
SW3	SUR	400		0								
	1'	240	960	0	16	<0.300	<10	<10	<10	<10	CAL	
SW4	SUR	400		0								
	1'	320	960	0	160	<0.300	<10	<10	<10	<10	CAL	
						 						
										-		
						<u> </u>		<u> </u>			<u> </u>	1

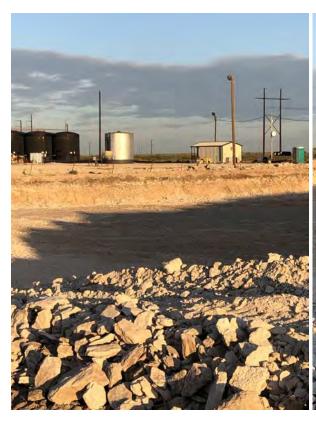






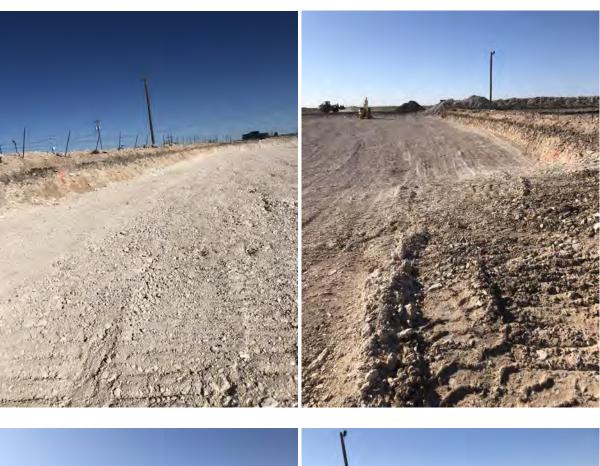






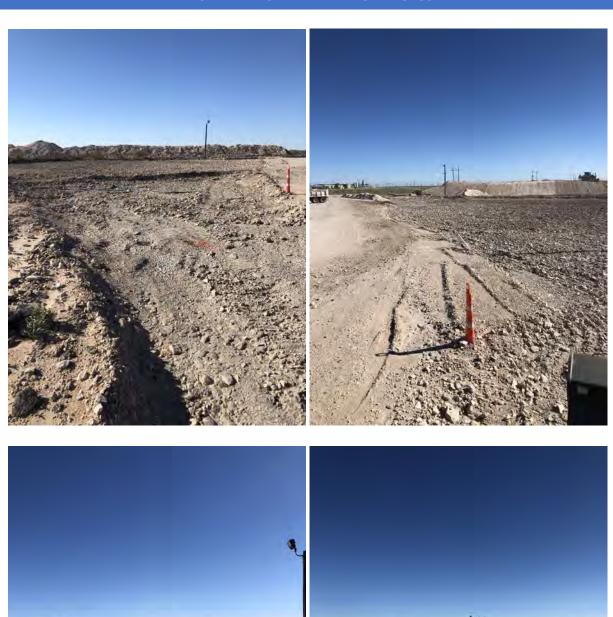






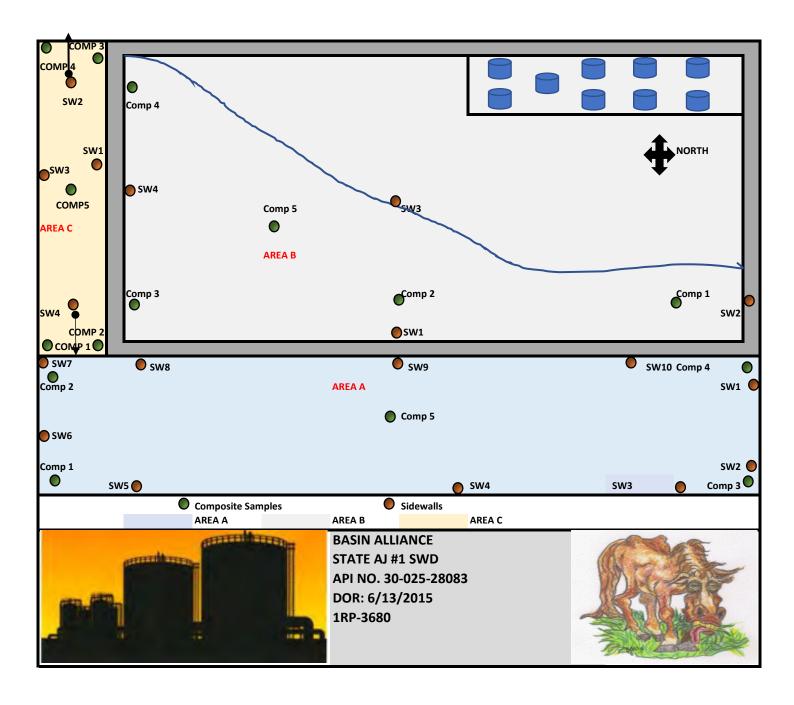






Company N	Name:	Basin Al	liance		Location	Name:	State AJ	#1 SWD		Release Date:	6/13/2015
AREA A											
SP ID	Depth	Titr	PID	L-BTEX	L-DRO	L-ORO	L-GRO	L-TPH	L-CHL	Soil	Notes
SP1 COM	4'	480	0								
SP2 COM	4'	400	0								
SP3 COM	4'	400	0								
SP4 COM	4'	400	0								
SP5 COM	4'	480	0								
SP6 COM	4'	320	0								
COM MIX	4'	400	0	ND	ND	ND	ND	ND	56.5		
SW1		360	0	ND	ND	ND	ND	ND	113		
SW2		400	0	ND	ND	ND	ND	ND	71.2		
SW3		440	0	ND	ND	ND	ND	ND	84.2		
SW4		400	0	ND	ND	ND	ND	ND	102		
SW5		360	0	ND	ND	ND	ND	ND	77.1		
SW6		360	0	ND	ND	ND	ND	ND	309		
SW7		400	0	ND	ND	ND	ND	ND	103		
SW8		400	0	ND	ND	ND	ND	ND	283		
SW9		320	0	ND	ND	ND	ND	ND	284		
SW10		360	0	ND	ND	ND	ND	ND	44.5		
AREA B											
SP ID	Depth	Titr	PID	L-BTEX	L-DRO	L-ORO	L-GRO	L-TPH	L-CHL	Soil	Notes
SP1 COM	6"	320									
SP2 COM	6"	160									
SP3 COM	6"	400									
SP4 COM	6"	480									
SP5 COM	6"	400									
COM MIX	6"	480	ND	ND	ND	ND	ND	ND	25.5		
SW1		520	ND	ND	ND	ND	ND	ND	29.1		
SW2		520	ND	ND	ND	ND	ND	ND	ND		
SW3		480	ND	ND	ND	ND	ND	ND	72.8		
SW4		400	ND	ND	ND	ND	ND	ND	88.5		
AREA C											
SP ID	Depth	Titr	PID	L-BTEX	L-DRO	L-ORO	L-GRO	L-TPH	L-CHL	Soil	Notes

SP1 COM	4'	480								
SP2 COM	4'	400								
SP3 COM	4'	320								
SP4 COM	4'	400								
SP5 COM	4'	480								
COM MIX	4'	400	ND	ND	ND	ND	ND	ND	211	
SW1		320	ND	ND	ND	ND	ND	ND	168	
SW2		400	ND	ND	ND	ND	ND	ND	59.7	
SW3		480	ND	ND	ND	ND	ND	ND	177	
SW4		400	ND	ND	ND	ND	ND	ND	171	





Analytical Report

Report Summary

Client: Basin Aliance

Job Number: 19054-0003

Work Order: P910066

Project Name/Location: State AJ

Report Reviewed By:	Walter Hinderson	Date:	10/18/19	

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.

Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.

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Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.

Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.

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Basin AlianceProject Name:State AJPO Box 1058Project Number:19054-0003Reported:Hoobs NM, 88241Project Manager:Lindsay Salgado10/18/19 11:21

Analytical Report for Samples

Lab Sample ID	Matrix	Sampled	Received	Container
P910066-01A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
P910066-02A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
P910066-03A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
P910066-04A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
P910066-05A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
P910066-06A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
P910066-07A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
P910066-08A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
P910066-09A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
P910066-10A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
P910066-11A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
P910066-12A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
P910066-13A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
P910066-14A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
P910066-15A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
P910066-16A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
P910066-17A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
P910066-18A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
P910066-19A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
P910066-20A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
P910066-21A	Soil	10/11/19	10/15/19	Glass Jar, 4 oz.
	P910066-01A P910066-02A P910066-03A P910066-04A P910066-05A P910066-06A P910066-07A P910066-08A P910066-09A P910066-10A P910066-11A P910066-12A P910066-13A P910066-15A P910066-15A P910066-16A P910066-18A P910066-19A P910066-20A	P910066-01A Soil P910066-02A Soil P910066-03A Soil P910066-04A Soil P910066-05A Soil P910066-06A Soil P910066-07A Soil P910066-08A Soil P910066-10A Soil P910066-11A Soil P910066-11A Soil P910066-12A Soil P910066-13A Soil P910066-14A Soil P910066-15A Soil P910066-16A Soil P910066-17A Soil P910066-18A Soil P910066-19A Soil	P910066-01A Soil 10/11/19 P910066-02A Soil 10/11/19 P910066-03A Soil 10/11/19 P910066-04A Soil 10/11/19 P910066-05A Soil 10/11/19 P910066-06A Soil 10/11/19 P910066-07A Soil 10/11/19 P910066-08A Soil 10/11/19 P910066-09A Soil 10/11/19 P910066-10A Soil 10/11/19 P910066-11A Soil 10/11/19 P910066-12A Soil 10/11/19 P910066-13A Soil 10/11/19 P910066-14A Soil 10/11/19 P910066-15A Soil 10/11/19 P910066-16A Soil 10/11/19 P910066-17A Soil 10/11/19 P910066-17A Soil 10/11/19 P910066-18A Soil 10/11/19 P910066-19A Soil 10/11/19 P910066-19A Soil 10/11/19 P910066-19A Soil 10/11/19 P910066-19A Soil 10/11/19 P910066-20A Soil 10/11/19	P910066-01A Soil 10/11/19 10/15/19 P910066-02A Soil 10/11/19 10/15/19 P910066-03A Soil 10/11/19 10/15/19 P910066-04A Soil 10/11/19 10/15/19 P910066-05A Soil 10/11/19 10/15/19 P910066-06A Soil 10/11/19 10/15/19 P910066-07A Soil 10/11/19 10/15/19 P910066-08A Soil 10/11/19 10/15/19 P910066-09A Soil 10/11/19 10/15/19 P910066-10A Soil 10/11/19 10/15/19 P910066-11A Soil 10/11/19 10/15/19 P910066-12A Soil 10/11/19 10/15/19 P910066-13A Soil 10/11/19 10/15/19 P910066-15A Soil 10/11/19 10/15/19 P910066-15A Soil 10/11/19 10/15/19 P910066-15A Soil 10/11/19 10/15/19 P910066-16A Soil 10/11/19 10/15/19 P910066-17A Soil 10/11/19 10/15/19 P910066-18A Soil 10/11/19 10/15/19 P910066-19A Soil 10/11/19 10/15/19 P910066-19A Soil 10/11/19 10/15/19 P910066-20A Soil 10/11/19 10/15/19

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Reported: 10/18/19 11:21



Basin Aliance Project Name: State AJ

PO Box 1058 Project Number: 19054-0003
Hoobs NM, 88241 Project Manager: Lindsay Salgado

Composite Mix A P910066-01 (Solid)

		P9100	66-01 (Solid)					
		Reporting		·	·			
Analyte	Result	Limit	Units Dilutio	n Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130	1942011	10/15/19	10/16/19	EPA 8260B	
Surrogate: Toluene-d8		102 %	70-130	1942011	10/15/19	10/16/19	EPA 8260B	
Surrogate: Bromofluorobenzene		96.6 %	70-130	1942011	10/15/19	10/16/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO	/ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1942012	10/15/19	10/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1942012	10/15/19	10/16/19	EPA 8015D	
Surrogate: n-Nonane		107 %	50-200	1942012	10/15/19	10/16/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO	•							
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130	1942011	10/15/19	10/16/19	EPA 8015D	
Surrogate: Toluene-d8		102 %	70-130	1942011	10/15/19	10/16/19	EPA 8015D	
Surrogate: Bromofluorobenzene		96.6 %	70-130	1942011	10/15/19	10/16/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	56.5	20.0	mg/kg 1	1942015	10/15/19	10/15/19	EPA 300.0/9056A	

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SW1-A P910066-02 (Solid)

			66-02 (Solid)					
		Reporting						
Analyte	Result	Limit	Units Diluti	on Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130	1942011	10/15/19	10/16/19	EPA 8260B	
Surrogate: Toluene-d8		101 %	70-130	1942011	10/15/19	10/16/19	EPA 8260B	
Surrogate: Bromofluorobenzene		96.2 %	70-130	1942011	10/15/19	10/16/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/O	RO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1942012	10/15/19	10/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1942012	10/15/19	10/16/19	EPA 8015D	
Surrogate: n-Nonane		105 %	50-200	1942012	10/15/19	10/16/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8015D	_
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130	1942011	10/15/19	10/16/19	EPA 8015D	_
Surrogate: Toluene-d8		101 %	70-130	1942011	10/15/19	10/16/19	EPA 8015D	
Surrogate: Bromofluorobenzene		96.2 %	70-130	1942011	10/15/19	10/16/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	113	20.0	mg/kg 1	1942015	10/15/19	10/15/19	EPA 300.0/9056A	

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PO Box 1058Project Number:19054-0003Reported:Hoobs NM, 88241Project Manager:Lindsay Salgado10/18/19 11:21

SW2-A P910066-03 (Solid)

			66-03 (Solid)					
		Reporting						
Analyte	Result	Limit	Units Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130	1942011	10/15/19	10/16/19	EPA 8260B	
Surrogate: Toluene-d8		101 %	70-130	1942011	10/15/19	10/16/19	EPA 8260B	
Surrogate: Bromofluorobenzene		97.2 %	70-130	1942011	10/15/19	10/16/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/6	ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1942012	10/15/19	10/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1942012	10/15/19	10/16/19	EPA 8015D	
Surrogate: n-Nonane		109 %	50-200	1942012	10/15/19	10/16/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130	1942011	10/15/19	10/16/19	EPA 8015D	
Surrogate: Toluene-d8		101 %	70-130	1942011	10/15/19	10/16/19	EPA 8015D	
Surrogate: Bromofluorobenzene		97.2 %	70-130	1942011	10/15/19	10/16/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	71.2	20.0	mg/kg 1	1942015	10/15/19	10/15/19	EPA 300.0/9056A	

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SW3-A P910066-04 (Solid)

		P9100	66-04 (Sol	id)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-1	130	1942011	10/15/19	10/16/19	EPA 8260B	
Surrogate: Toluene-d8		99.7 %	70-1	130	1942011	10/15/19	10/16/19	EPA 8260B	
Surrogate: Bromofluorobenzene		94.3 %	70-1	130	1942011	10/15/19	10/16/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/O	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942012	10/15/19	10/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942012	10/15/19	10/16/19	EPA 8015D	
Surrogate: n-Nonane		110 %	50-2	200	1942012	10/15/19	10/16/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942011	10/15/19	10/16/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-1	130	1942011	10/15/19	10/16/19	EPA 8015D	
Surrogate: Toluene-d8		99.7 %	70-1	130	1942011	10/15/19	10/16/19	EPA 8015D	
Surrogate: Bromofluorobenzene		94.3 %	70-1	130	1942011	10/15/19	10/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	84.2	20.0	mg/kg	1	1942015	10/15/19	10/15/19	EPA 300.0/9056A	-

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SW4-A P910066-05 (Solid)

		P9100	66-05 (Solid)					
		Reporting						
Analyte	Result	Limit	Units Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130	1942011	10/15/19	10/16/19	EPA 8260B	
Surrogate: Toluene-d8		101 %	70-130	1942011	10/15/19	10/16/19	EPA 8260B	
Surrogate: Bromofluorobenzene		97.0 %	70-130	1942011	10/15/19	10/16/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/0	ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1942012	10/15/19	10/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1942012	10/15/19	10/16/19	EPA 8015D	
Surrogate: n-Nonane		108 %	50-200	1942012	10/15/19	10/16/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130	1942011	10/15/19	10/16/19	EPA 8015D	
Surrogate: Toluene-d8		101 %	70-130	1942011	10/15/19	10/16/19	EPA 8015D	
Surrogate: Bromofluorobenzene		97.0 %	70-130	1942011	10/15/19	10/16/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	102	20.0	mg/kg 1	1942015	10/15/19	10/15/19	EPA 300.0/9056A	

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SW5-A P910066-06 (Solid)

		F 9100	00-00 (Sona)					
		Reporting						
Analyte	Result	Limit	Units Dil	ution Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	1942011	10/15/19	10/16/19	EPA 8260B	
Surrogate: Toluene-d8		102 %	70-130	1942011	10/15/19	10/16/19	EPA 8260B	
Surrogate: Bromofluorobenzene		96.2 %	70-130	1942011	10/15/19	10/16/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/	ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1942012	10/15/19	10/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1942012	10/15/19	10/16/19	EPA 8015D	
Surrogate: n-Nonane		111 %	50-200	1942012	10/15/19	10/16/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130	1942011	10/15/19	10/16/19	EPA 8015D	
Surrogate: Toluene-d8		102 %	70-130	1942011	10/15/19	10/16/19	EPA 8015D	
Surrogate: Bromofluorobenzene		96.2 %	70-130	1942011	10/15/19	10/16/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	77.1	20.0	mg/kg 1	1942015	10/15/19	10/15/19	EPA 300.0/9056A	

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SW6-A P910066-07 (Solid)

		F 9100	00-07 (Solia)					
		Reporting						
Analyte	Result	Limit	Units Dil	ution Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130	1942011	10/15/19	10/16/19	EPA 8260B	
Surrogate: Toluene-d8		101 %	70-130	1942011	10/15/19	10/16/19	EPA 8260B	
Surrogate: Bromofluorobenzene		96.1 %	70-130	1942011	10/15/19	10/16/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/O	RO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1942012	10/15/19	10/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1942012	10/15/19	10/16/19	EPA 8015D	
Surrogate: n-Nonane		106 %	50-200	1942012	10/15/19	10/16/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130	1942011	10/15/19	10/16/19	EPA 8015D	
Surrogate: Toluene-d8		101 %	70-130	1942011	10/15/19	10/16/19	EPA 8015D	
Surrogate: Bromofluorobenzene		96.1 %	70-130	1942011	10/15/19	10/16/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	309	20.0	mg/kg 1	1942015	10/15/19	10/15/19	EPA 300.0/9056A	

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SW7-A P910066-08 (Solid)

		P9100	66-08 (Solid)					
		Reporting						
Analyte	Result	Limit	Units Dilut	ion Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130	1942011	10/15/19	10/16/19	EPA 8260B	
Surrogate: Toluene-d8		102 %	70-130	1942011	10/15/19	10/16/19	EPA 8260B	
Surrogate: Bromofluorobenzene		94.6 %	70-130	1942011	10/15/19	10/16/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/	ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1942012	10/15/19	10/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1942012	10/15/19	10/16/19	EPA 8015D	
Surrogate: n-Nonane		112 %	50-200	1942012	10/15/19	10/16/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130	1942011	10/15/19	10/16/19	EPA 8015D	
Surrogate: Toluene-d8		102 %	70-130	1942011	10/15/19	10/16/19	EPA 8015D	
Surrogate: Bromofluorobenzene		94.6 %	70-130	1942011	10/15/19	10/16/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	103	20.0	mg/kg 1	1942015	10/15/19	10/15/19	EPA 300.0/9056A	

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SW8-A P910066-09 (Solid)

		P9100	66-09 (Solid)					
		Reporting		•	•	•		
Analyte	Result	Limit	Units Dilution	n Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		109 %	70-130	1942011	10/15/19	10/16/19	EPA 8260B	
Surrogate: Toluene-d8		102 %	70-130	1942011	10/15/19	10/16/19	EPA 8260B	
Surrogate: Bromofluorobenzene		95.0 %	70-130	1942011	10/15/19	10/16/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/O	ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1942012	10/15/19	10/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1942012	10/15/19	10/16/19	EPA 8015D	
Surrogate: n-Nonane		109 %	50-200	1942012	10/15/19	10/16/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		109 %	70-130	1942011	10/15/19	10/16/19	EPA 8015D	
Surrogate: Toluene-d8		102 %	70-130	1942011	10/15/19	10/16/19	EPA 8015D	
Surrogate: Bromofluorobenzene		95.0 %	70-130	1942011	10/15/19	10/16/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	283	20.0	mg/kg 1	1942015	10/15/19	10/15/19	EPA 300.0/9056A	

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SW9-A P910066-10 (Solid)

		P9100	66-10 (Solid)					
		Reporting						
Analyte	Result	Limit	Units Diluti	on Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130	1942011	10/15/19	10/16/19	EPA 8260B	
Surrogate: Toluene-d8		101 %	70-130	1942011	10/15/19	10/16/19	EPA 8260B	
Surrogate: Bromofluorobenzene		93.4 %	70-130	1942011	10/15/19	10/16/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO	/ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1942012	10/15/19	10/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1942012	10/15/19	10/16/19	EPA 8015D	
Surrogate: n-Nonane		109 %	50-200	1942012	10/15/19	10/16/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130	1942011	10/15/19	10/16/19	EPA 8015D	
Surrogate: Toluene-d8		101 %	70-130	1942011	10/15/19	10/16/19	EPA 8015D	
Surrogate: Bromofluorobenzene		93.4 %	70-130	1942011	10/15/19	10/16/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	284	20.0	mg/kg 1	1942015	10/15/19	10/15/19	EPA 300.0/9056A	

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SW10-A P910066-11 (Solid)

			66-11 (Solid)					
		Reporting						
Analyte	Result	Limit	Units Dil	ution Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260								
Benzene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		112 %	70-130	1942011	10/15/19	10/16/19	EPA 8260B	
Surrogate: Toluene-d8		101 %	70-130	1942011	10/15/19	10/16/19	EPA 8260B	
Surrogate: Bromofluorobenzene		95.9 %	70-130	1942011	10/15/19	10/16/19	EPA 8260B	
Nonhalogenated Organics by 8015 - DRO/	ORO							
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1942013	10/15/19	10/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1942013	10/15/19	10/16/19	EPA 8015D	
Surrogate: n-Nonane		109 %	50-200	1942013	10/15/19	10/16/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1942011	10/15/19	10/16/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		112 %	70-130	1942011	10/15/19	10/16/19	EPA 8015D	
Surrogate: Toluene-d8		101 %	70-130	1942011	10/15/19	10/16/19	EPA 8015D	
Surrogate: Bromofluorobenzene		95.9 %	70-130	1942011	10/15/19	10/16/19	EPA 8015D	
Anions by 300.0/9056A								
Chloride	44.5	20.0	mg/kg 1	1942015	10/15/19	10/15/19	EPA 300.0/9056A	

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Composite (B) P910066-12 (Solid)

		P9100	66-12 (Soli	d)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		94.6 %	50-1	50	1942014	10/15/19	10/16/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO	/ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942013	10/15/19	10/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942013	10/15/19	10/16/19	EPA 8015D	
Surrogate: n-Nonane		111 %	50-2	00	1942013	10/15/19	10/16/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO)								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.6 %	50-1	50	1942014	10/15/19	10/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	25.5	20.0	mg/kg	1	1942015	10/15/19	10/15/19	EPA 300.0/9056A	

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PO Box 1058 Project Number: 19054-0003 Hoobs NM, 88241 Project Manager: Lindsay Salgado **Reported:** 10/18/19 11:21

SW1-B P910066-13 (Solid)

		17100	00-13 (50	iiu)					
	·	Reporting	·			·			
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		93.4 %	50-	150	1942014	10/15/19	10/16/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	.0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942013	10/15/19	10/16/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942013	10/15/19	10/16/19	EPA 8015D	
Surrogate: n-Nonane		112 %	50-	200	1942013	10/15/19	10/16/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.2 %	50-	150	1942014	10/15/19	10/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	29.1	20.0	mg/kg	1	1942015	10/15/19	10/15/19	EPA 300.0/9056A	

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PO Box 1058Project Number:19054-0003Reported:Hoobs NM, 88241Project Manager:Lindsay Salgado10/18/19 11:21

SW2-B P910066-14 (Solid)

P910000-14 (S0IId)										
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organics by EPA 8021										
Benzene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B		
Toluene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B		
Ethylbenzene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B		
p,m-Xylene	ND	0.0500	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B		
o-Xylene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B		
Total Xylenes	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B		
Surrogate: 4-Bromochlorobenzene-PID		93.2 %	50-1	50	1942014	10/15/19	10/16/19	EPA 8021B		
Nonhalogenated Organics by 8015 - DRO/Ol	RO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942013	10/15/19	10/16/19	EPA 8015D		
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942013	10/15/19	10/16/19	EPA 8015D		
Surrogate: n-Nonane		110 %	50-2	000	1942013	10/15/19	10/16/19	EPA 8015D		
Nonhalogenated Organics by 8015 - GRO										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8015D		
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.4 %	50-1	50	1942014	10/15/19	10/16/19	EPA 8015D		
Anions by 300.0/9056A										
Chloride	ND	20.0	mg/kg	1	1942015	10/15/19	10/15/19	EPA 300.0/9056A		

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 Hoobs NM, 88241
 Project Manager:
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 10/18/19 11:21

SW3-B P910066-15 (Solid)

1910000-13 (SONO)										
		Reporting	·						· · · · ·	
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organics by EPA 8021										
Benzene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B		
Toluene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B		
Ethylbenzene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B		
p,m-Xylene	ND	0.0500	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B		
o-Xylene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B		
Total Xylenes	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B		
Surrogate: 4-Bromochlorobenzene-PID		93.1 %	50-	150	1942014	10/15/19	10/16/19	EPA 8021B		
Nonhalogenated Organics by 8015 - DRO/OR	RO .									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942013	10/15/19	10/16/19	EPA 8015D		
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942013	10/15/19	10/16/19	EPA 8015D		
Surrogate: n-Nonane		113 %	50-2	200	1942013	10/15/19	10/16/19	EPA 8015D		
Nonhalogenated Organics by 8015 - GRO										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8015D		
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.5 %	50-	150	1942014	10/15/19	10/16/19	EPA 8015D		
Anions by 300.0/9056A										
Chloride	72.8	20.0	mg/kg	1	1942015	10/15/19	10/15/19	EPA 300.0/9056A		

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SW4-B P910066-16 (Solid)

P910066-16 (Solid)										
		Reporting								
Analyte	Result	Limit	Units Di	lution Batch	Prepared	Analyzed	Method	Notes		
Volatile Organics by EPA 8021										
Benzene	ND	0.0250	mg/kg 1	1942014	10/15/19	10/16/19	EPA 8021B			
Toluene	ND	0.0250	mg/kg 1	1942014	10/15/19	10/16/19	EPA 8021B			
Ethylbenzene	ND	0.0250	mg/kg 1	1942014	10/15/19	10/16/19	EPA 8021B			
p,m-Xylene	ND	0.0500	mg/kg 1	1942014	10/15/19	10/16/19	EPA 8021B			
o-Xylene	ND	0.0250	mg/kg 1	1942014	10/15/19	10/16/19	EPA 8021B			
Total Xylenes	ND	0.0250	mg/kg 1	1942014	10/15/19	10/16/19	EPA 8021B			
Surrogate: 4-Bromochlorobenzene-PID		92.7 %	50-150	1942014	10/15/19	10/16/19	EPA 8021B			
Nonhalogenated Organics by 8015 - DRO	ORO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1	1942013	10/15/19	10/16/19	EPA 8015D			
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1	1942013	10/15/19	10/16/19	EPA 8015D			
Surrogate: n-Nonane		111 %	50-200	1942013	10/15/19	10/16/19	EPA 8015D			
Nonhalogenated Organics by 8015 - GRO										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1	1942014	10/15/19	10/16/19	EPA 8015D			
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.8 %	50-150	1942014	10/15/19	10/16/19	EPA 8015D			
Anions by 300.0/9056A										
Chloride	88.5	20.0	mg/kg 1	1942015	10/15/19	10/15/19	EPA 300.0/9056A			

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Composite (C) P910066-17 (Solid)

		P9100	66-17 (Soli	d)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		92.8 %	50-1	50	1942014	10/15/19	10/16/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/	ORO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942013	10/15/19	10/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942013	10/15/19	10/17/19	EPA 8015D	
Surrogate: n-Nonane		117 %	50-2	00	1942013	10/15/19	10/17/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.8 %	50-1	50	1942014	10/15/19	10/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	211	20.0	mg/kg	1	1942015	10/15/19	10/16/19	EPA 300.0/9056A	

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SW1-C P910066-18 (Solid)

P910000-18 (S0IId)										
	·	Reporting		·						
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organics by EPA 8021										
Benzene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B		
Toluene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B		
Ethylbenzene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B		
p,m-Xylene	ND	0.0500	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B		
o-Xylene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B		
Total Xylenes	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B		
Surrogate: 4-Bromochlorobenzene-PID		93.1 %	50-	150	1942014	10/15/19	10/16/19	EPA 8021B		
Nonhalogenated Organics by 8015 - DRO/OR	RO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942013	10/15/19	10/17/19	EPA 8015D		
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942013	10/15/19	10/17/19	EPA 8015D		
Surrogate: n-Nonane		114 %	50-2	200	1942013	10/15/19	10/17/19	EPA 8015D		
Nonhalogenated Organics by 8015 - GRO										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8015D		
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.0 %	50-	150	1942014	10/15/19	10/16/19	EPA 8015D		
Anions by 300.0/9056A										
Chloride	168	20.0	mg/kg	1	1942015	10/15/19	10/16/19	EPA 300.0/9056A		

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 Project Manager:
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SW2-C P910066-19 (Solid)

		17100	00-17 (30	iiuj					
	·	Reporting			·	·			
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		92.8 %	50-	150	1942014	10/15/19	10/16/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	o								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942013	10/15/19	10/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942013	10/15/19	10/17/19	EPA 8015D	
Surrogate: n-Nonane		109 %	50-	200	1942013	10/15/19	10/17/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.0 %	50-	150	1942014	10/15/19	10/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	59.7	20.0	mg/kg	1	1942015	10/15/19	10/16/19	EPA 300.0/9056A	

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SW3-C P910066-20 (Solid)

		P9100	000-20 (S011a _.)					
		Reporting				·			·
Analyte	Result	Limit	Units I	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg 1		1942014	10/15/19	10/16/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg 1		1942014	10/15/19	10/16/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg 1		1942014	10/15/19	10/16/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg 1		1942014	10/15/19	10/16/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg 1		1942014	10/15/19	10/16/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg 1		1942014	10/15/19	10/16/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		92.6 %	50-150)	1942014	10/15/19	10/16/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/O	RO								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg 1		1942013	10/15/19	10/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg 1		1942013	10/15/19	10/17/19	EPA 8015D	
Surrogate: n-Nonane		112 %	50-200)	1942013	10/15/19	10/17/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg 1		1942014	10/15/19	10/16/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.0 %	50-150)	1942014	10/15/19	10/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	177	20.0	mg/kg 1		1942015	10/15/19	10/16/19	EPA 300.0/9056A	

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 Project Manager:
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SW4-C P910066-21 (Solid)

		1 /100	00-21 (5011	iu)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		93.4 %	50-1	50	1942014	10/15/19	10/16/19	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1942013	10/15/19	10/17/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1942013	10/15/19	10/17/19	EPA 8015D	
Surrogate: n-Nonane		107 %	50-2	000	1942013	10/15/19	10/17/19	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1942014	10/15/19	10/16/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.8 %	50-1	50	1942014	10/15/19	10/16/19	EPA 8015D	
Anions by 300.0/9056A									
Chloride	171	20.0	mg/kg	1	1942010	10/15/19	10/15/19	EPA 300.0/9056A	

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PO Box 1058 Project Number: 19054-0003 Reported: 10/18/19 11:21 Hoobs NM, 88241 Project Manager: Lindsay Salgado

Reporting

Volatile Organic Compounds by 8260 - Quality Control

Envirotech Analytical Laboratory

Spike

Source

%REC

RPD

		reporting		Spike	Bource		/orche		KI D	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1942011 - Purge and Trap EPA 50)30A									
Blank (1942011-BLK1)				Prepared: 1	10/15/19 1 A	analyzed: 1	0/16/19 1			
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
o,m-Xylene	ND	0.0500	"							
p-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 1,2-Dichloroethane-d4	0.515		"	0.500		103	70-130			
Surrogate: Toluene-d8	0.514		"	0.500		103	70-130			
Surrogate: Bromofluorobenzene	0.471		"	0.500		94.2	70-130			
LCS (1942011-BS1)				Prepared: 1	10/15/19 1 A	Analyzed: 1	0/16/19 0			
Benzene	2.58	0.0250	mg/kg	2.50		103	70-130			
Toluene	2.69	0.0250	"	2.50		107	70-130			
Ethylbenzene	2.73	0.0250	"	2.50		109	70-130			
p,m-Xylene	5.38	0.0500	"	5.00		108	70-130			
o-Xylene	2.67	0.0250	"	2.50		107	70-130			
Total Xylenes	8.05	0.0250	"	7.50		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.516		"	0.500		103	70-130			
Surrogate: Toluene-d8	0.531		"	0.500		106	70-130			
Surrogate: Bromofluorobenzene	0.503		"	0.500		101	70-130			
Matrix Spike (1942011-MS1)	Sou	rce: P910066-	01	Prepared: 1	10/15/19 1 A	analyzed: 1	0/16/19 1			
Benzene	2.53	0.0250	mg/kg	2.50	ND	101	48-131			
Toluene	2.57	0.0250	"	2.50	ND	103	48-130			
Ethylbenzene	2.64	0.0250	"	2.50	ND	106	45-135			
p,m-Xylene	5.18	0.0500	"	5.00	ND	104	43-135			
o-Xylene	2.60	0.0250	"	2.50	ND	104	43-135			
Total Xylenes	7.78	0.0250	"	7.50	ND	104	43-135			
Surrogate: 1,2-Dichloroethane-d4	0.526		"	0.500		105	70-130			
Surrogate: Toluene-d8	0.519		"	0.500		104	70-130			
Surrogate: Bromofluorobenzene	0.506		"	0.500		101	70-130			
Matrix Spike Dup (1942011-MSD1)	Sou	rce: P910066-	01	Prepared: 1	10/15/19 1 A	analyzed: 1	0/16/19 1			
Benzene	2.45	0.0250	mg/kg	2.50	ND	97.9	48-131	3.43	23	
Toluene	2.50	0.0250	"	2.50	ND	99.9	48-130	2.78	24	
Ethylbenzene	2.57	0.0250	"	2.50	ND	103	45-135	2.80	27	
p,m-Xylene	5.05	0.0500	"	5.00	ND	101	43-135	2.50	27	
o-Xylene	2.54	0.0250	"	2.50	ND	102	43-135	2.33	27	
Total Xylenes	7.60	0.0250	"	7.50	ND	101	43-135	2.45	27	
Surrogate: 1,2-Dichloroethane-d4	0.527		"	0.500		105	70-130			
Surrogate: Toluene-d8	0.524		"	0.500		105	70-130			

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0.500

102

70-130

0.509

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Surrogate: Bromofluorobenzene

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PO Box 1058 Project Number: 19054-0003
Hoobs NM, 88241 Project Manager: Lindsay Salgado

Reported: 10/18/19 11:21

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1942014 - Purge and Trap EPA 5030A										
Blank (1942014-BLK1)				Prepared: 1	0/15/19 1 A	nalyzed: 1	0/16/19 1			
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	7.45		"	8.00		93.2	50-150			
LCS (1942014-BS1)				Prepared: 1	0/15/19 1 A	nalyzed: 1	0/16/19 1			
Benzene	5.55	0.0250	mg/kg	5.00		111	70-130			
Toluene	5.54	0.0250	"	5.00		111	70-130			
Ethylbenzene	5.53	0.0250	"	5.00		111	70-130			
p,m-Xylene	11.1	0.0500	"	10.0		111	70-130			
o-Xylene	5.55	0.0250	"	5.00		111	70-130			
Total Xylenes	16.6	0.0250	"	15.0		111	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.46		"	8.00		93.3	50-150			
Matrix Spike (1942014-MS1)	Sou	rce: P910066-	12	Prepared: 1	0/15/19 1 A	nalyzed: 1	0/16/19 1			
Benzene	5.07	0.0250	mg/kg	5.00	ND	101	54.3-133			
Toluene	5.05	0.0250	"	5.00	ND	101	61.4-130			
Ethylbenzene	5.04	0.0250	"	5.00	ND	101	61.4-133			
p,m-Xylene	10.1	0.0500	"	10.0	ND	101	63.3-131			
o-Xylene	5.06	0.0250	"	5.00	ND	101	63.3-131			
Total Xylenes	15.2	0.0250	"	15.0	ND	101	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	7.51		"	8.00		93.9	50-150			
Matrix Spike Dup (1942014-MSD1)	Sou	rce: P910066-	12	Prepared: 1	0/15/19 1 A	nalyzed: 1	0/16/19 1			
Benzene	5.02	0.0250	mg/kg	5.00	ND	100	54.3-133	1.02	20	
Toluene	5.00	0.0250	"	5.00	ND	100	61.4-130	1.01	20	
Ethylbenzene	4.99	0.0250	"	5.00	ND	99.9	61.4-133	0.947	20	
p,m-Xylene	10.0	0.0500	"	10.0	ND	100	63.3-131	0.928	20	
o-Xylene	5.01	0.0250	"	5.00	ND	100	63.3-131	0.895	20	
Total Xylenes	15.0	0.0250	"	15.0	ND	100	63.3-131	0.917	20	
Surrogate: 4-Bromochlorobenzene-PID	7.51		"	8.00		93.9	50-150			

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PO Box 1058Project Number:19054-0003Reported:Hoobs NM, 88241Project Manager:Lindsay Salgado10/18/19 11:21

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1942012 - DRO Extraction EPA 3570										
Blank (1942012-BLK1)				Prepared:	10/15/19 1	Analyzed: 1	0/16/19 1			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	58.9		"	50.0		118	50-200			
LCS (1942012-BS1)				Prepared:	10/15/19 1	Analyzed: 1	0/16/19 1			
Diesel Range Organics (C10-C28)	524	25.0	mg/kg	500		105	38-132			
Surrogate: n-Nonane	54.3		"	50.0		109	50-200			
Matrix Spike (1942012-MS1)	Sou	rce: P910066-	01	Prepared:	10/15/19 1	Analyzed: 1	0/16/19 1			
Diesel Range Organics (C10-C28)	497	25.0	mg/kg	500	ND	99.4	38-132			
Surrogate: n-Nonane	51.9		"	50.0		104	50-200			
Matrix Spike Dup (1942012-MSD1)	Sou	rce: P910066-	01	Prepared:	10/15/19 1 2	Analyzed: 1	0/16/19 1			
Diesel Range Organics (C10-C28)	480	25.0	mg/kg	500	ND	95.9	38-132	3.53	20	
Surrogate: n-Nonane	52.4		"	50.0		105	50-200			

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 Reported:

 Hoobs NM, 88241
 Project Manager:
 Lindsay Salgado
 10/18/19 11:21

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1942013 - DRO Extraction EPA 3570										
Blank (1942013-BLK1)				Prepared:	10/15/19 1 A	Analyzed: 1	0/16/19 1			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	54.5		"	50.0		109	50-200			
LCS (1942013-BS1)				Prepared:	10/15/19 1 A	Analyzed: 1	0/16/19 2			
Diesel Range Organics (C10-C28)	520	25.0	mg/kg	500		104	38-132			
Surrogate: n-Nonane	53.9		"	50.0		108	50-200			
Matrix Spike (1942013-MS1)	Sou	rce: P910066-	11	Prepared:	10/15/19 1 A	Analyzed: 1	0/16/19 2			
Diesel Range Organics (C10-C28)	548	25.0	mg/kg	500	ND	110	38-132			
Surrogate: n-Nonane	55.8		"	50.0		112	50-200			
Matrix Spike Dup (1942013-MSD1)	Sou	rce: P910066-	11	Prepared:	10/15/19 1 A	Analyzed: 1	0/16/19 2			
Diesel Range Organics (C10-C28)	556	25.0	mg/kg	500	ND	111	38-132	1.50	20	
Surrogate: n-Nonane	55.2		"	50.0		110	50-200			

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 Project Manager:
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Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Spike

0.500

99.0

70-130

Source

%REC

RPD

Reporting

0.495

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1942011 - Purge and Trap EPA 5030A										
Blank (1942011-BLK1)				Prepared: 1	10/15/19 1 A	Analyzed: 1	0/16/19 1			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.515		"	0.500		103	70-130			
Surrogate: Toluene-d8	0.514		"	0.500		103	70-130			
Surrogate: Bromofluorobenzene	0.471		"	0.500		94.2	70-130			
LCS (1942011-BS2)				Prepared: 1	10/15/19 1 A	Analyzed: 1	0/16/19 1			
Gasoline Range Organics (C6-C10)	50.8	20.0	mg/kg	50.0		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.529		"	0.500		106	70-130			
Surrogate: Toluene-d8	0.524		"	0.500		105	70-130			
Surrogate: Bromofluorobenzene	0.484		"	0.500		96.7	70-130			
Matrix Spike (1942011-MS2)	Sourc	e: P910066-	01	Prepared: 1	10/15/19 1 A	Analyzed: 1	0/16/19 1			
Gasoline Range Organics (C6-C10)	48.2	20.0	mg/kg	50.0	ND	96.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.534		"	0.500		107	70-130			
Surrogate: Toluene-d8	0.526		"	0.500		105	70-130			
Surrogate: Bromofluorobenzene	0.496		"	0.500		99.1	70-130			
Matrix Spike Dup (1942011-MSD2)	Sourc	e: P910066-	01	Prepared: 1	10/15/19 1 A	Analyzed: 1	0/16/19 1			
Gasoline Range Organics (C6-C10)	41.2	20.0	mg/kg	50.0	ND	82.4	70-130	15.7	20	
Surrogate: 1,2-Dichloroethane-d4	0.529		"	0.500		106	70-130			
Surrogate: Toluene-d8	0.522		"	0.500		104	70-130			

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 ${\it Surrogate: Bromofluor obenzene}$

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 Reported:

 Hoobs NM, 88241
 Project Manager:
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 10/18/19 11:21

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Spike

Source

%REC

RPD

Reporting

		FB		F						
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1942014 - Purge and Trap EPA 5030A										
Blank (1942014-BLK1)				Prepared:	10/15/19 1	Analyzed: 1	0/16/19 1			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.82		"	8.00		85.2	50-150			
LCS (1942014-BS2)				Prepared:	10/15/19 1	Analyzed: 1	0/16/19 1			
Gasoline Range Organics (C6-C10)	46.0	20.0	mg/kg	50.0		92.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.85		"	8.00		85.7	50-150			
Matrix Spike (1942014-MS2)	Sour	ce: P910066-	12	Prepared:	10/15/19 1	Analyzed: 1	0/16/19 1			
Gasoline Range Organics (C6-C10)	45.5	20.0	mg/kg	50.0	ND	90.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.91		"	8.00		86.4	50-150			
Matrix Spike Dup (1942014-MSD2)	Sour	ce: P910066-	12	Prepared:	10/15/19 1	Analyzed: 1	0/16/19 1			
Gasoline Range Organics (C6-C10)	46.7	20.0	mg/kg	50.0	ND	93.4	70-130	2.67	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.94		"	8.00		86.7	50-150			

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Basin Aliance Project Name: State AJ
PO Box 1058 Project Number: 19054-0

PO Box 1058 Project Number: 19054-0003 Hoobs NM, 88241 Project Manager: Lindsay Salgado **Reported:** 10/18/19 11:21

RPD

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Spike

Source

%REC

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1942010 - Anion Extraction EPA 3	800.0/9056A									
Blank (1942010-BLK1)				Prepared &	Analyzed:	10/15/19 1				
Chloride	ND	20.0	mg/kg							
LCS (1942010-BS1)				Prepared &	Analyzed:	10/15/19 1				
Chloride	254	20.0	mg/kg	250		102	90-110			
Matrix Spike (1942010-MS1)	Source	: P910063-	01	Prepared &	Analyzed:	10/15/19 1				
Chloride	3290	200	mg/kg	250	3040	97.0	80-120			
Matrix Spike Dup (1942010-MSD1)	Source	: P910063-	01	Prepared &	k Analyzed:	10/15/19 1				
Chloride	3420	200	mg/kg	250	3040	150	80-120	3.94	20	M4

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Basin Aliance Project Name: State AJ
PO Box 1058 Project Number: 19054-0003

Hoobs NM, 88241 Project Manager: Lindsay Salgado

Reported: 10/18/19 11:21

RPD

%REC

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Spike

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1942015 - Anion Extraction EPA 30	00.0/9056A									
Blank (1942015-BLK1)				Prepared &	Analyzed	: 10/15/19 1				
Chloride	ND	20.0	mg/kg							
LCS (1942015-BS1)				Prepared &	Analyzed	: 10/15/19 1				
Chloride	254	20.0	mg/kg	250		102	90-110			
Matrix Spike (1942015-MS1)	Source	e: P910066-	01	Prepared &	Analyzed	: 10/15/19 1				
Chloride	314	20.0	mg/kg	250	56.5	103	80-120			
Matrix Spike Dup (1942015-MSD1)	Source	e: P910066-	01	Prepared &	Analyzed	: 10/15/19 1				
Chloride	316	20.0	mg/kg	250	56.5	104	80-120	0.438	20	

QC Summary Report

Comment:

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

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Basin AlianceProject Name:State AJPO Box 1058Project Number:19054-0003Reported:Hoobs NM, 88241Project Manager:Lindsay Salgado10/18/19 11:21

Notes and Definitions

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The

associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

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

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

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oject Information	Chain of	Custody											Page 1	of _
ient: Basin Quance	Report Attention			325	Lal	o Use	e Only			T/	AT		EPA Prog	ram
niect: State AT	Report due by:		Lab V	VO#				umber		1D	3D	RCRA	CWA	SD
oject Manager: Lindson Salgado	Attention:		pql	∞	de			4.0		1			1	1
oject Manager: Lind sun Salgado ddress: DD BOV 3258 1058 ty, State, Zip Lotus Oh Hobbs Nm	Address: City, State, Zip	<u>-</u>	22	-2-			Anaiys	is and f	vietno	<u> </u>			NM C	tate
none:	Phone:		by 8015	, 8015	1			0.					IVIVI CO	7 01
nail: Naladden@hungry-horsp.com			RO by	NO by	/ 802	8260	6010	e 300						
Time Date Matrix No Containers Sample ID		Lab Number	DRO/ORO	GRO/DRO by	ВТЕХ by 8021	VOC by 8260	Metals 6010	Chloride 300.0					Re	emarks
103 10/11/19 composit	e mix (A)	1	5	5	5		(
2:15 10/11/19 SWI -A		2			$\frac{1}{1}$			4						
2:31 10/11/19 SW2-A		3	4		Д									
5:40 10/11/19 SW3-A	- 15:55 - 5:00 - 5	4	\prod	Δ	Δ									
5:47 10/11/19 SW4-A		5		A										
0:5310/11/19 SW5-19		6						\perp						
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:49 10/11/19 SW9-A		9	Δ		\prod			4						
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Fedex 10/18/19 9:30

Senvirotech 579

Analytical Eaboratory 24

10/15/19 9:30

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<i>b</i>	ient: Bo	ISIAL	auti	auco				10.00	Report A	ttention	7.		ALLEY.		ab Us	e On	lv		988	TAT	E	PA Progra	am				
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	field sampler), me of collection							ring with or inter	ntionally mislab	elling the sample lo	ocation, date or					1 '		_	•	but less than	ceived on ice th 6 °C on subsequ	771 101	mpled or received				
6	elinquished	in.	John	Date	: DH-1	Time	35	60	Signatur		Date 16-14-	19	+	535	5	Rec	eived	on ic	e:	Lab Us	se Only						
R.	elinquished	by: (Stena	iture)	Date /)-14-1	Time	535		y: (Signatur	7	Date 10 14	19	Time	ئة:ئ <i>و</i>	2	T1 AVG	Tem	p °C_	-4 ¹	2		<u>T3</u>					
Sa	imple Matrix	s/- Soil, So	I - Solid, Sg -					, , ,											mber	glass, v - VOA							
N	ote: Samples	re discard	led 30 days	after results	are report	ed unless				ous samples will l			or disp	osed o	at the	client	expens	e. The	report :	or the ana	lysis of the a	ibove sample	s is applicable				
01	nly to those s	amples rec	eived by the	laboratory	with this Co	OC. The I	iability of th	e laboratory is	limited to the	e amount paid fo	r on the report.																



10/15/19 9:3

24 Hour Emergency Response Phone (600) 362-1879

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

labadmin@envirotech inc com

ent: 60	SIN A	mau	Ø	g ado	Report Attention						se On				TAT			EPA Program	
oject:	3 MTN	11/2	<u> </u>	Cade	Report due by: Attention:	<u>_</u>		WO#			Job	Num	ber	2	1D	3D	RCRA	CW/	A SD
dress:	DO BO	1055	5	200	Address:								nd Me						State
y, State	, Zip	bhS N	M		City, State, Zip		by 8015	015										NM (CO UT
one:	Gladdi			-horso-ce	Phone: Email:			GRO/DRO by 8015	021	260	93	Chloride 300.0							
Time	Date		No No		Email:	Lab	DRO/ORO	/DRO	BTEX by 8021	VOC by 8260	Metals 6010	ride 3							
mpled	Sampled	Matrix	Containers	Sample ID		Number	DRO	GRO	втех	VOC	Meta	Chlo						F	Remarks
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attiona	al Instruct	ions:													vis	sio	ein	امد	er
					at tampering with or intentionally mislabelling the s	ample location, date or							_		vation m	ust be rec	ceived on ice		re sampled o
	ion is considere d by: (Signa		nay be ground Date	s for legal action. Sampled	Received by: Signature	Date		Time							1:	ah Hs	e Only		
	su 3			14-19 153	35 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		(1)		COIIIy										
inquishe	ed by: (Signature) Date Time				Received by: (Signature) Fed Ev	Date 10/14		Time			<u>T1</u>		np °C		<u>T2</u>			<u>T3</u>	



Rais Lopez 5796 US Highway 64, Farmington, NM 87401

10/15/19 9:30

PM (505) 632-4881 Fx (505) 632-1865

envirotech-inc coar labadmin@envirotech inc.com

Received by
OCD:
1/26/2023
Received by OCD: 1/26/2023 10:18:23 AM

Client: Basin Quance					Report Attention		5/21	188	La	ab Us	e Only TAT EPA Progra						gran	n	
Project: 5	tate	AT			Report due by:	Lab	WO#			Job Number				3D	RCRA	CW	Ά	SDWA	
Project Ma Address: City, State,	nager:	indsen	Salga	do	Attention:		Pq	(oo	66				6003						
Address:	00 00	V H	野儿	058	Address:						Analy	/sis ar	nd Metho	od				Stat	The second
City, State,	Zip Lot	HUNGON	HODOS	Nm	City, State, Zip		3015	3015									NM	co	UT AZ
Phone:	-1-1-10	01.		la a an	Phone:		by 8	by	021	92	g	0.00							
	0 1	ngrhi		horse.com	Email:	Lab	S S	BR B	by 8	34 8.	ls 60	ide 3							
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID		Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0						Rema	arks
1:03 1	0/11/19			composite	mix (A)]	5	5	5			5							
10:15 1				SWI -A		2	(1			/							
10:31				SW2-A		3	1/)	1)							
10:40				SW3-A		4		1	1			(
10:47 1				SW4-19		5		/											
10:531	111			SW5-17		6	/		1			5							
11:31/1	22			SW6-A		7	1)	2				(
11:3710	olulia			5W7- A		8		5	5										
11:49 10				SN9 . A		9	1)											
11:53	10/11/11			SN9- A		10	1	(2							
Additional	Instruc	tions:													io .	en to		1.	
1 16-14 en 1 1		Helita . m d	and beautifular - F	tile semale. I am s	hat tampering with or Intentionally mislabelling the sample I	ocation data					Sample	s requiris	og thermal pre-	servation	nust be re	Ce in	day they	OLC.	aled or received
				inis sampie. I am aware i for legal action. Sample		ocacion, uate of										6 ^D C on subsequ			regression and sold
Relinquished			Date	Time	Received by: (Signature)	Date		Time				-		1	ab Us	e Only	-	-	-
note	2006	2000		-H-A 153	5 /2/	10-14	-19		153	35	Rec	eived	on ice:) N	,			
Relimpuished	by: (Signa	ture)	Date	Time	Received by (Signature)	Date		Time			T1			T2			T3		
1/1	1	_	10	.14-19 15	35 Fed Ex	10/14/	14	19	1:30	1	AVG	Ten	np °C_	4					
Sample Matrix	X: S/- Soll, So	d - Solid, Sg -		queous, O - Other		Containe	_							oer gla	SS, V -	VOA			
Note: Samples	s are discard	ded 30 days	after results a	re reported unless of	her arrangements are made. Hazardous samples will	be returned to	client o	or disp	osed of	f at the	client	expen	se. The rep	ort for	the ana	lysis of the a	bove sar	nples i	s applicable
only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

envirotech 57

Rais Lopery

10/15/19 9:30

Pfh (505) 632-1881 Fx (505) 532-1865

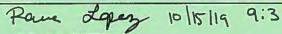
environentario com

Client: Basin autauce	Report Attention	Lab Us				e Onl	У		T.	AT	E	ım	
rejects Strile Mt	Report due by:	Lab	WO	#			lumbe		1D	3D	RCRA	CWA	SDWA
Project. State Salgado Address: 20 BOX, 1058 City, State, ZipHobbs NM	Attention:	Pq	1000	66		1905	4-00	०उ					
Address: 20 BOX, 10 518	Address:					Analys	sis and	Metho	d				ate
City, State, Zip#obbs NM	City, State, Zip	015	8015									NM CO	UT AZ
Phone:	Phone:	- \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \)8 Ac	17	100	0	0.0	1					
Email: N) Gladdeughungy-horse och		2	02	y 80	, 826	601	le 30			1			
Time Date Matrix No Sample ID	Lab	DRO/ORO by 8015	GRO/DRO by	втех by 802:	VOC by 8260	Metals 6010	Chloride 300.0				1	Ren	narks
Sampled Sampled Matrix Containers Sample ID	Numbe	r ä	15	1 10	S	Σ	5	4 6					
12:07 10:11:19 SW 10-A	11	5	5	7		(
1:45 10:11:19 Spd-Com	posite (B) 12			2			2						
1150 1011.19 SWI-)	()						
1:53 b11.19 SW2-B	14	1	5	1									
2:00 10:119 SN3 - B	15	1)						
2:11 10119 SW4-B	16	1/	1)				4						
2:50 10-11-19 composite	(C) 17	1	1	1			1						
3:03 10:11-19 SWI-C	18		1	11			(
3:11 10:11.19 SW2-C	19	1/											
3:14 10:119 SW2-C	SW3-C perclient \$ 20	1	1										
Additional Instructions:	10-15-19											pole	
 (field sampler), attest to the validity and authenticity of this sample. I am aware tha time of collection is considered fraud and may be grounds for legal action. Sampled b 	y:	7	_			-			ove 0 bu	t less than	e 6 °C on subsequ		mpled or received
Relinquished by: (Signature) Date Time 153:	Received by Signature Date 16-19	1-19	Time /	535	5	Rece	eived o	on ice:		Lab U	se Only		
Relinquished by: (Signature) Date Time	Received by: (Signature) Date	4	Time			<u>T1</u>	ELON.		T2			<u>T3</u>	
(G-14-19 153.	5 Fed Ex 10/11	1/19	11	4:3	2	AVG	Temp	°C	+		-,		
Sample Matrix: S-Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other	Contain												
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable													

FedEx 10/15/19 9:30

Senvirotech 5796

Analytical Laboratory 24 Hz



Ph (505) 632-1881 Fx (505) 532-1865

Page 197 of 213

Client: 8/	ISIN a	Hiau	co			Report Attention				Lab Use Only							TAT EPA Program					m
Project:	SFOIT	e A	5		100	Report due by:			Lab \				Job N	lumb	er	1	LD 3	3D	RCRA	1 (CWA	SDWA
Project M	lanager:	wase	y Sali	sude						004	?		19054-0003									
Address:	VO 20	1 1007	5	3		Address:							Analysis and Method								Sta	
City, Stat	e, Zip HC	XXXXX	m			City, State, Zip			015	8015										NI	1 CO	UT AZ
Phone:				1		Phone:			S Ac		21	6	0	0.0								
Email: N	Glada	u9 n	lugu -	-horso-	Ce	Email:			RO	80	y 80	, 82(601	e 30								
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID				Lab Number	DRO/ORO by 8015	GRO/DRO by	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		-					Ren	narks
3' 20	10119			SWL	1-(C)			21	X	X	Y			X								
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Addition	al Instruc	tions:					La in	Lang									vis	ic	ein	C:	role	
				this sample. I a		ampering with or intentionally mislabell	ling the sample loca	tion, date or							-	reserva	atlon mu	st be re		e the day	they are sar	npled or received
Relinquish	ed by: (Signa	ature)	Date		Time	Received by: (Signature)	7	Date 10-14	-19	Time			Rece	eived	on ice				e Only			
Relinquish	Received by: (Signature) Date Time Received by: (Signature)								(/	Time	535		T1		Office		T2	, ,		T	3	
16			10	14-19	1535	FEDEN		10/14	119	16	:30		AVG	Tem	p °C_	4					317	
Sample Mai	MXX - Shill Si	d - Solid, Sø -		Aqueous, O - C		- LULX		Containe													-	
Note: Samo	les are discar	ded 30 days	after results	are reported	unless other	rrangements are made. Hazardou	us samples will be	returned to	client c	r dispo	osed of	at the	client	expens	e. The r	eport	for th	e anal	ysis of th	e abovi	sample	s is applicable
						of the laboratory is limited to the																



Rain Lopez

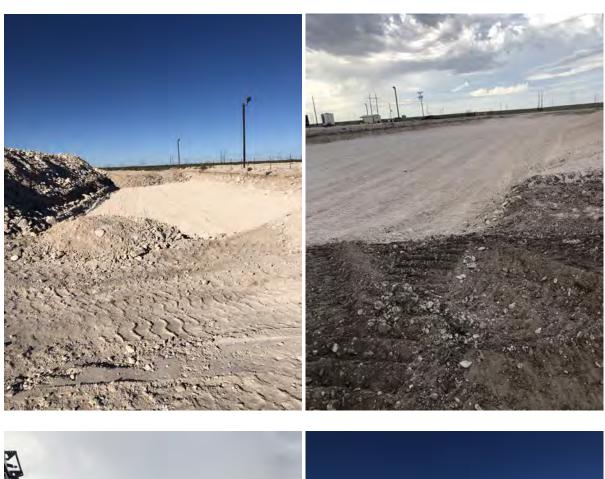
10/15/19

9:30

5796 US Highway 64, Farmington, NM 87401

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

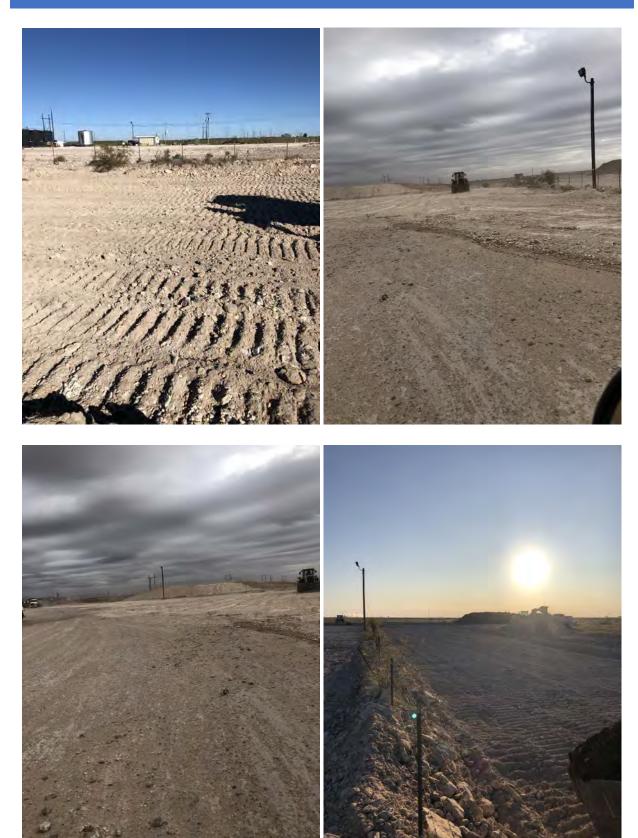
admin@envirolech inc com















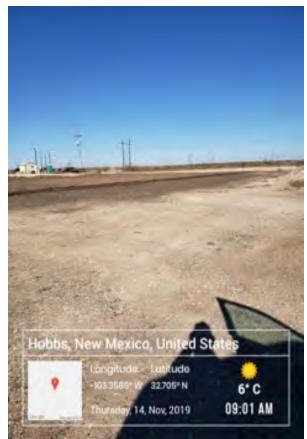








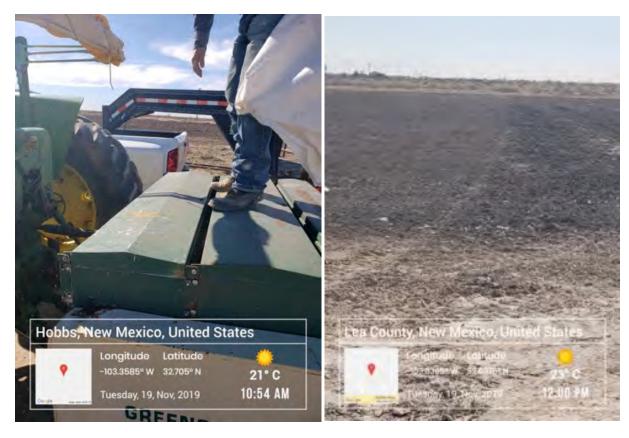






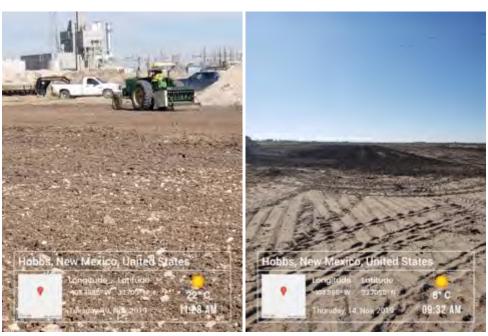


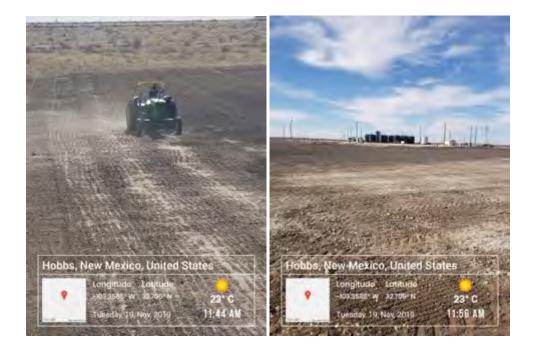


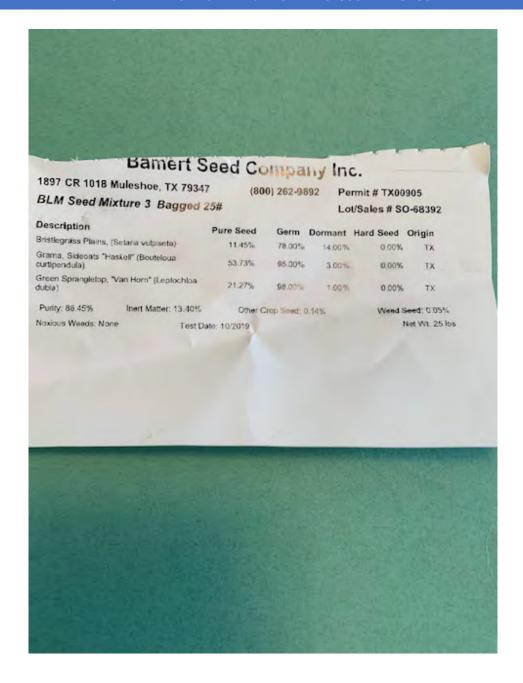












District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 179880

CONDITIONS

Operator:	OGRID:
BASIN ALLIANCE LLC	168776
P.O. Box 1378	Action Number:
Hobbs, NM 88241	179880
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	2/2/2023