

Remediation Plan

November 20, 2018

Re: WBDU 23 API# 30-025-21225 Case # 1RP-5181

To: Olivia Yu

Environmental Specialist-New Mexico Oil Conservation Division Energy, Minerals and Natural Resources Department 1625 N. French Drive Hobbs, New Mexico 88240

Background:

On August 23, 2018 a release occurred due to ½ nipple on the injection line going to the well failed. An initial C-141 was submitted to NMOCD and approved on September 7, 2018. The release is located north of Eunice New Mexico (GPS: 32.49885 -103.17441) in unit letter D section 9 township 21S range 37E. Groundwater data was collected utilizing USGS and NMOSE wells of record in a 2,000 meter radius of the release. 5 wells were located inside the 2,000 meter radius with an average depth of groundwater of 65 feet below ground surface. A USGS topographic map was utilized and there are no significate water courses within a ½ mile radius of the release site.

The majority of the release impacted two lease pads and a lease road. A pasture area were a two track road was also impacted and a small area off the north side of the pad. A one call was placed and the wet areas on the lease pads and road were scraped to a depth of 6". The two track road pasture area was excavated to a depth of 2 feet as indicated by field chloride values. Due to the release being of an unknown volume on October 2, 2018 seven verticals were installed throughout the release to determine the depth of contamination. Field samples were collected and titrated for chlorides. Representative samples from each vertical were submitted to a commercial laboratory for Chlorides, TPH, and BTEX.

Remediation Plan:

Upon review of the data collected at the release site and the depth of groundwater being greater than 50 feet below ground surface and preliminary data collected suggest that chlorides and hydrocarbons are below table one standards. Apache proposes that final 5 point bottom composite samples be collected on the pad and lease roads not to exceed a 1,000 square foot radius. If the laboratory results for the composite samples on the lease pad and lease road are below NMOCD table one standards then no further excavation activities will proceed. If there are areas on the lease road and lease pad that exceed the table one standards then excavation will proceed in those areas until the table one standards are meet. Apache proposes that final 5 point bottom composite samples be collected in a 200 foot radius and submitted to a commercial laboratory for analysis for the two foot pasture excavation. If the laboratory analysis are less than 600 chlorides and meet table one standards for

hydrocarbons no further excavation will be required. If the levels exceed 600 chlorides and the hydrocarbon levels exceed the table one standards the area will be excavated until the hydrocarbon levels are meet regardless of depth and excavate chlorides in excess of 600 but below 10,000 to a maximum depth of 4 feet. A small area in the pasture north of SP 7 needs to be address and will be excavated until standards are meet. Final 5 point composite wall samples will be collected in intervals not to exceed 200 square feet throughout the release path. All excavated material will be hauled to an NMOCD approved facility. If the depth exceeds 6 inches on the lease pads and lease road the area will be backfilled with clean imported caliche. The areas in the pasture will be backfilled with clean imported topsoil to ground surface and contoured to the surrounding area. The surface owner will be consulted to determine revegetation requirements. NMOCD will be notified 48 hours prior to final samples being collected. Apache Corporation will complete remediation activities within 90 days of the date NMOCD approves the plan.

Enclosed: Initial C-141, Groundwater Data, Sample Data, Maps, Laboratory Results, and Photos

Submitted by;

Environmental Technician larry.baker@apachecorp.com

Cell# 432-631-6982 Off# 575-393-7106

Bruce Baker

District [
1625 N French Dr., Hobbs, NM 88240
District [
81 S First St., Artesia, NM 88210
District [
1000 Rio Brazos Road, Aztec, NM 87410
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State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	NOY1825032205 WBDU 23		
District RP		1RP-5181	
Facility ID			
Application 1	D	pOY1825031294	

Release Notification

			Resp	onsible Party	y
Responsible I	Party A	bache Con	rooration	OGRID	873
Contact Name Bruce Baker		Contact Te	elephone 432 - 631 - 6982		
Contact email larry . baker@apache corp.com				Incident #	(assigned b) OCD) NOY1825032205 WBDU 23
Contact maili	ing address	2350	W MArl	land Stree	t, Hobbs, NM, 88240
atitude	32.4	9885	Location	of Release So Longitude command degrees to 5 decum	ource - 103.17441
Site Name	WBD	u az		Site Type	Injection Well
Date Release		8-23-	-18	API# (if app	Injection Well 30-025-21225
Unit Letter	Section	Township	Range	Cour	
D	9	als	37 <i>E</i>	Les	Federal minerals
			Nature and	l Volume of l	Release
			Nature and	l Volume of l	Release
Crude Oil		(s) Released (Select a	It that apply and attach		ustification for the volumes provided below) Volume Recovered (bbls)
	1	7	It that apply and attach		Volume Recovered (bbls)
	1	Volume Release Volume Release Is the concentrate	It that apply and attached (bbls) ed (bbls) tion of total dissolu	calculations or specific	Volume Recovered (bbls)
	Water	Volume Release Volume Release Is the concentrate	il that apply and attached (bbls) ed (bbls) tion of total dissolv water >10,000 mg	calculations or specific	Volume Recovered (bbls) Volume Recovered (bbls) Volume Recovered (bbls) 2 Volume Recovered (bbls) Volume Rec
Produced	Water	Volume Release Volume Release Is the concentration the produced	il that apply and attached (bbls) ed (bbls) tion of total dissolv water >10,000 mg ed (bbls)	calculations or specific	Volume Recovered (bbls) Volume Recovered (bbls) Volume Recovered (bbls) 2 2 2 2 2 2 2 2 2
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State of New Mexico Oil Conservation Division

Incident ID	NOY1825032205 WBDU 23	
District RP	1RP-5181	
Facility ID		
Application ID	pOY1825031294	

Was this a major	If YES, for what reason(s) does the resp	consible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?		
	Volume lost is q	reater than 25 bbls.
Yes No	•	
f YES, was immediate n	otice given to the OCD? By whom? To	whom? When and by what means (phone, email, etc)?
Immediate	Notice was given via	empil to Olivia Yu and Jim Griswold
·		Response
The responsible	party must undertake the following actions immedia	nely unless they could crease a safety hazard that would result in mjury
The source of the rele	ease has been stopped.	
	is been secured to protect human health ar	nd the environment.
		r dikes, absorbent pads, or other containment devices.
-	ecoverable materials have been removed a	
f all the actions describe	d above have <u>not</u> been undertaken, explai	n why:
		remediation immediately after discovery of a release. If remediation
		al efforts have been successfully completed or if the release occurred please attach all information needed for closure evaluation.
		ne best of my knowledge and understand that pursuant to OCD rules and
regulations all operators are	required to report and/or file certain release no	otifications and perform corrective actions for releases which may endanger
oublic health or the environ failed to adequately investig	ment. The acceptance of a C-141 report by the ate and remediate contamination that pose a the	c OCD does not relieve the operator of liability should their operations have nreat to groundwater, surface water, human health or the environment. In
addition, OCD acceptance of		of responsibility for compliance with any other federal, state, or local laws
and/or regulations.		
Printed Name: 8	uce Baker	Title: Environmental Technician SR
Signature: <u>Brus</u>	ce Baker kur Qapachecorp.com	Date: 9-5-19
email:larry.ba	ker @apachecorp.com	Telephone: 432 - 631 - 6982
•		
OCD Only	EIVED	
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Remediation Activities:

To date the release area has been mapped utilizing GPS coordinates. Preliminary surface samples have been taken to laboratory for analysis of CI-, TPH, and BTEX. Currently the release surface is being scraped and the area in the pasture is being excavated to a depth of 2 feet indicated through field chloride screenings.

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

	What is the shallowest depth to groundwater beneath the area affected by the release?	58 (ft bgs)
	Did this release impact groundwater or surface water?	☐ Yes ☑ No
	Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No
	Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☑ No
	Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No
	Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No
	Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No
	Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No
	Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes 🗹 No
l	Are the lateral extents of the release overlying a subsurface mine?	☐ Yes 🗹 No
l	Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☑ No
	Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No
	Did the release impact areas not on an exploration, development, production, or storage site?	Yes No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.		
	Characterization Report Checklist: Each of the following items must be included in the report.	
	Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well. Field data	s.
	Data table of soil contaminant concentration data Depth to water determination	
	Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release	
	 ✓ Boring or excavation logs ✓ Photographs including date and GIS information 	
	✓ Topographic/Aerial maps	
l	Laboratory data including chain of custody	

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

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

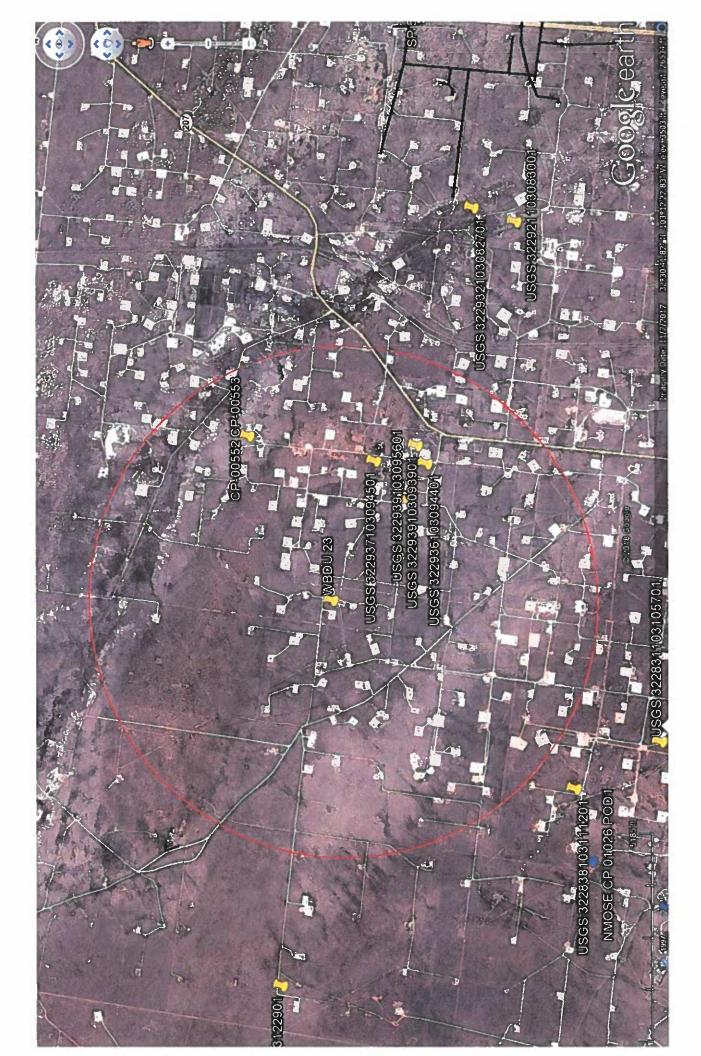
I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release notify public health or the environment. The acceptance of a C-141 report by the Office to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	fications and perform corrective actions for releases which may endanger ICD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In
Printed Name: Bruce Baker	Title: Environmental Tech. SR.
Signature: Bruce Baller	Date: 11/20/18
email: larry, baker@apachecorp.com	Telephone: 432-631-6982
OCD Only	
Received by:	Date:

State of New Mexico Oil Conservation Division

Incident ID	
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Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be in	cluded in the plan.
Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(c) Proposed schedule for remediation (note if remediation plan timeling)	
Deferral Requests Only: Each of the following items must be confir	med as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around produceonstruction.	uction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health, th	ne environment, or groundwater.
I hereby certify that the information given above is true and complete to rules and regulations all operators are required to report and/or file cert which may endanger public health or the environment. The acceptance liability should their operations have failed to adequately investigate an surface water, human health or the environment. In addition, OCD acc responsibility for compliance with any other federal, state, or local laws.	ain release notifications and perform corrective actions for releases of a C-141 report by the OCD does not relieve the operator of a remediate contamination that pose a threat to groundwater, eptance of a C-141 report does not relieve the operator of
Printed Name: Bruce BAKER	Title: <u>Environe</u> wtal Tech. SR.
Signature: Bruce Baher	Date: 11-20-18
Printed Name: Bruce Baker Signature: Bruce Baker email: Larry. baker@apachecorp.com	Telephone: 432-631-6982
OCD Only	****
Received by:	Date:
☐ Approved ☐ Approved with Attached Conditions of Ap	proval
Signature: Da	ite:





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Groundwater ~	New Mexico	~	GO
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• 322939103093901

Minimum number of levels = 1

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USGS 322939103093901 21S.37E.09.22430

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°29'39", Longitude 103°09'39" NAD27

Land-surface elevation 3,468 feet above NAVD88

The depth of the well is 90 feet below land surface.

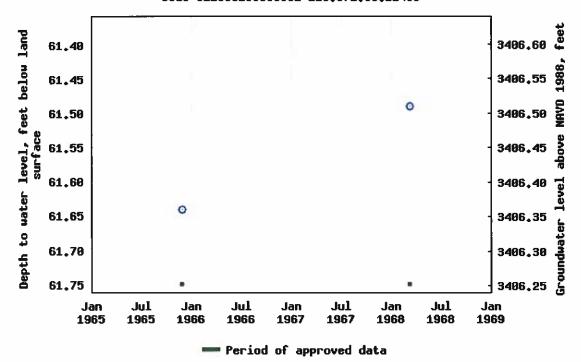
This well is completed in the Alluvium. Bolson Deposits and Other Surface.

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

Output formats

Table of data	
Tab-separated data	
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USGS 322939103093901 215.37E.09.22430



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Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°29'39", Longitude 103°09'56" NAD27

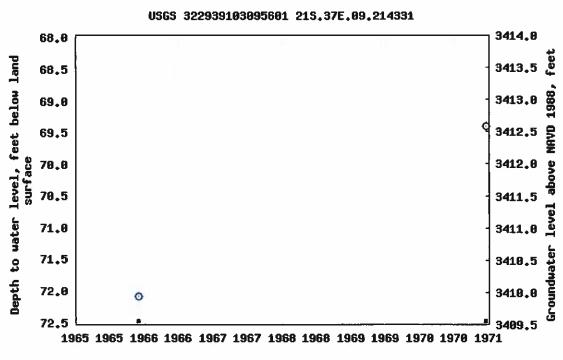
Land-surface elevation 3,482 feet above NAVD88

The depth of the well is 400 feet below land surface.

This well is completed in the Chinle Formation (231CHNL) local aquifer.

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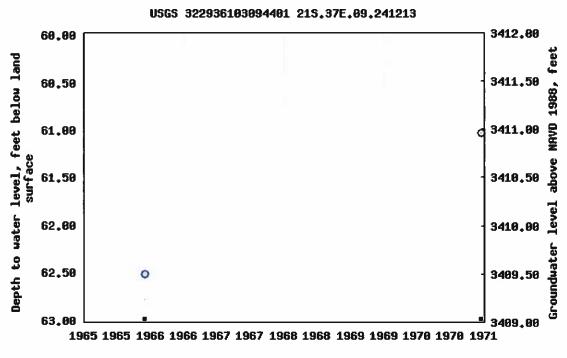
Available data for this site | Groundwater: Field measurements

USGS 322936103094401 21S.37E.09.241213

Lea County, New Mexico	
Hydrologic Unit Code 13070007	
Latitude 32°29'36", Longitude 103°09'44" NAD27	
Land-surface elevation 3,472 feet above NAVD88	
The depth of the well is 90 feet below land surface.	
This well is completed in the Alluvium, Bolson Deposits and	Other Surface
Deposits (110AVMB) local aquifer.	
Outrost Comments	

Output formats

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- Period of approved data

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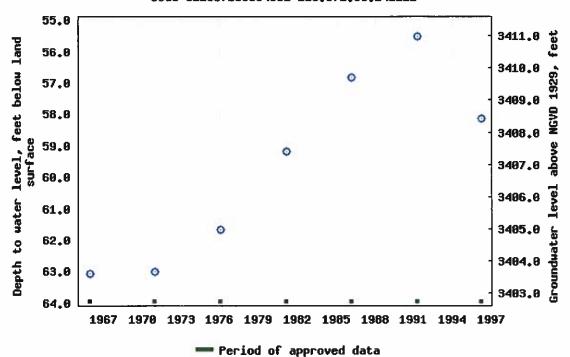
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Available data for this site	Groundwater:	Field measurements	✓ GO	
Lea County, New Mexico				
Hydrologic Unit Code 1307	0007			
Latitude 32°29'49", Longit	tude 103°09	9'45" NAD27		
Land-surface elevation 3,4	66.60 feet a	above NGVD29		
The depth of the well is 90	feet below	land surface.		
This well is completed in the	ne Alluvium,	Bolson Deposits	and Other	Surface
Deposits (110AVMB) local	aquifer.	·		
	A	- L. Co		

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Table of data	
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1.3 1.17 nadww01





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.)

POD Number

CP 00552

CP 00553

(R=POD has been replaced, O=orphaned,

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

(In feet)

75

75

15

POD

Sub-QQQ **Depth Depth Water** Code basin County 64 16 4 Sec Tws Rng Х Distance Well WaterColumn 2 4 04 21S 37E CP 672700 3598022* 1448 90 CP LΕ 2 4 04 21S 37E 672700 3598022* 1448 90

> Average Depth to Water: 75 feet

> > Minimum Depth: 75 feet

75 feet

Maximum Depth:

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 671508

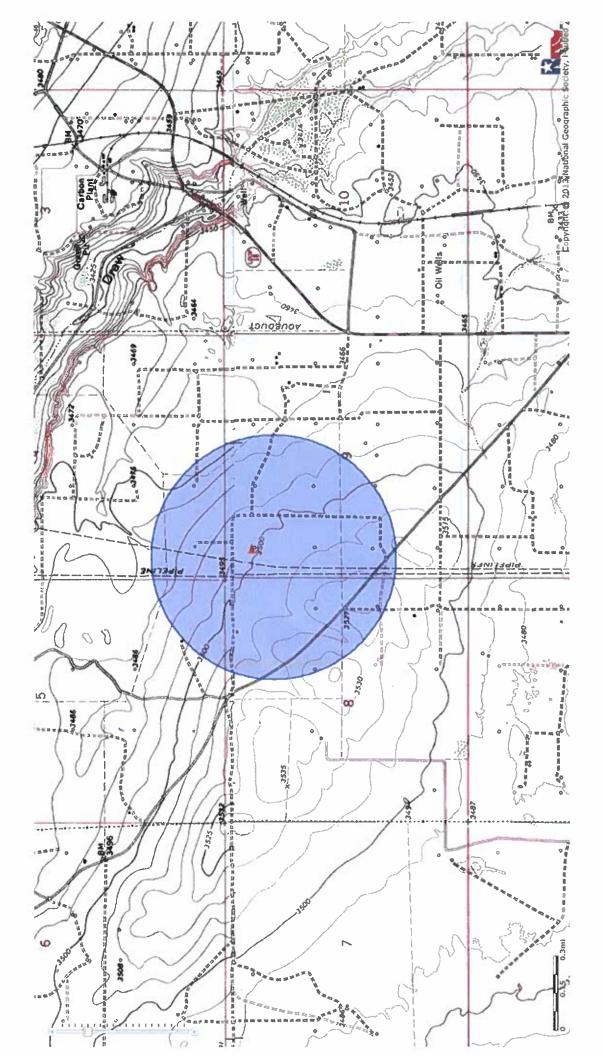
Northing (Y): 3597199 Radius: 2000

*UTM location was derived from PLSS - see Help

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

11/20/18 10:14 AM

WATER COLUMN/ AVERAGE **DEPTH TO WATER**





SP 1 32.4988666 -103.1743455

				1 AC	32.4966000 -IU3.1/43435	0.1/45455				
Depth	Field CL	Lab CL	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO
Surface	1,619	1730	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10
1'	920									
2'	794			:						
ωį	403	432	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10
4'	188	112	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10
				SP 2 :	SP 2 32.4992122 -103.1741829	3.1741829				
6"	476		<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10
1'	1,018	1180	<0.050	<0.050	< 0.050	<0.150	<0.300	<10	<10	<10
2'	666	608	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10
3.	356									
				SP 3	SP 3 32.4998337 -103.1741323	3.1741323				
6"	1,483	1630	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10
1'	264	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10
				SP 4	SP 4 32.5001716 -103.1741111	3.1741111				
6	744	832	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10
1'	306	288	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10
				Sb 5	SP 5 32 5002440 -103 1735908	1735908	į			
6"	323	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10
				SP 6	SP 6 32.5008429 -103.1719888	3.1719888			:	
6"	580	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10
1'	403	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10
				SP 7 :	SP 7 32.5013504 -103.1719100	3.1719100				
6"	6,053	8530	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10
1-1	672									
1'	269	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10

			l
	1'	1'	!
	275	1,619	; ; ;
			SI
			SP Pasture
ļ			



October 05, 2018

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WBDU #23

Enclosed are the results of analyses for samples received by the laboratory on 10/02/18 16:25.

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



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To: (575) 393-2432

10/02/2018 Reported: 10/05/2018

Received:

Project Name: WBDU #23 NONE GIVEN Project Number: **NOT GIVEN** Project Location:

Sampling Date:

10/02/2018

Sampling Type: Soil

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

Sample ID: VERTICAL 1 @ SURFACE (H802789-01)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2018	ND	2.09	105	2.00	1.78	
Toluene*	<0.050	0.050	10/03/2018	ND	1.97	98.6	2.00	1.81	
Ethylbenzene*	<0.050	0.050	10/03/2018	ND	1.93	96.6	2.00	3.43	
Total Xylenes*	<0.150	0.150	10/03/2018	ND	5.80	96.7	6.00	2.90	
Total BTEX	<0.300	0.300	10/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	79.1	% 69.8-14	2						
Chloride, SM4500CI-B mg/kg		Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1730	16.0	10/03/2018	ND	352	88.0	400	12.8	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2018	ND	187	93.7	200	2.12	
DRO >C10-C28*	<10.0	10.0	10/03/2018	ND	197	98.4	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	10/03/2018	ND					
Surrogate: 1-Chlorooctane	83.9	% 41-142	!						
Surrogate: 1-Chlorooctadecane	79.7	% 37.6-14	7						

*=Accredited Analyte **Cardinal Laboratories**

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Colony L. trans-



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To: (575) 393-2432

Received:

10/02/2018

Sampling Date: Sampling Type: 10/02/2018

Soil

Reported:

10/05/2018 WBDU #23

Sampling Type: Sampling Condition:

Cool & Intact

Project Name: Project Number:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

NOT GIVEN

Sample ID: VERTICAL 1 @ 3' (H802789-02)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2018	ND	2.09	105	2.00	1.78	
Toluene*	<0.050	0.050	10/03/2018	ND	1.97	98.6	2.00	1.81	
Ethylbenzene*	<0.050	0.050	10/03/2018	ND	1.93	96.6	2.00	3.43	
Total Xylenes*	<0.150	0.150	10/03/2018	ND	5.80	96.7	6.00	2.90	
Total BTEX	<0.300	0.300	10/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIC	80.7	% 69.8-14	2						
Chloride, SM4500CI-B mg/kg		Analyze							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	10/03/2018	ND	352	88.0	400	12.8	
TPH 8015M	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2018	ND	187	93.7	200	2.12	
DRO >C10-C28*	<10.0	10.0	10/03/2018	ND	197	98.4	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	10/03/2018	ND					
Surrogate: 1-Chlorooctane	84.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	79.5	% 37.6-14	7						

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APACHE CORP - HOBBS **BRUCE BAKER** 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Received: Reported: 10/02/2018 10/05/2018 WBDU #23

Project Name: Project Number: NONE GIVEN Project Location: **NOT GIVEN**

Sampling Date:

10/02/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: VERTICAL 1 @ 4' (H802789-03)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2018	ND	2.09	105	2.00	1.78	
Toluene*	<0.050	0.050	10/03/2018	ND	1.97	98.6	2.00	1.81	
Ethylbenzene*	<0.050	0.050	10/03/2018	ND	1.93	96.6	2.00	3.43	
Total Xylenes*	< 0.150	0.150	10/03/2018	ND	5.80	96.7	6.00	2.90	
Total BTEX	<0.300	0.300	10/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIC	79.9	% 69.8-14	2						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/03/2018	ND	352	88.0	400	12.8	
TPH 8015M	mg/	/kg	Analyze	d By: MS					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2018	ND	187	93.7	200	2.12	
DRO >C10-C28*	<10.0	10.0	10/03/2018	ND	197	98.4	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	10/03/2018	ND					
Surrogate: 1-Chlorooctane	79.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	74.4	% 37.6-14	7						

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APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Applicant Discourse

Received:

10/02/2018

Sampling Date:

10/02/2018

Reported:

BTEV OAS4B

10/05/2018

Sampling Type:

Soil

Project Name:

WBDU #23 NONE GIVEN

Sampling Condition:

Cool & Intact

Project Number: Project Location:

NOT GIVEN

Sample Received By:

Tamara Oldaker

Sample ID: VERTICAL 2 @ 1' (H802789-04)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2018	ND	2.09	105	2.00	1.78	
Toluene*	<0.050	0.050	10/03/2018	ND	1.97	98.6	2.00	1.81	
Ethylbenzene*	<0.050	0.050	10/03/2018	ND	1.93	96.6	2.00	3.43	
Total Xylenes*	<0.150	0.150	10/03/2018	ND	5.80	96.7	6.00	2.90	
Total BTEX	<0.300	0.300	10/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	79.6	% 69.8-14	2						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	10/03/2018	ND	352	88.0	400	12.8	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2018	ND	187	93.7	200	2.12	
DRO >C10-C28*	<10.0	10.0	10/03/2018	ND	197	98.4	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	10/03/2018	ND					
Surrogate: 1-Chlorooctane	83.1	% 41-142	!						
Surrogate: 1-Chlorooctadecane	<i>78.7</i>	% 37.6-14	7						

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Colory L. triena



APACHE CORP - HOBBS **BRUCE BAKER** 2350 W. MARLAND BLVD. HOBBS NM, 88240 (575) 393-2432

Fax To:

Received:

10/02/2018

Reported: Project Name: 10/05/2018 WBDU #23

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sampling Date:

10/02/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: VERTICAL 2 @ 3' (H802789-05)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/03/2018	ND	2.09	105	2.00	1.78	
Toluene*	<0.050	0.050	10/03/2018	ND	1.97	98.6	2.00	1.81	
Ethylbenzene*	<0.050	0.050	10/03/2018	ND	1.93	96.6	2.00	3.43	
Total Xylenes*	<0.150	0.150	10/03/2018	ND	5.80	96.7	6.00	2.90	
Total BTEX	<0.300	0.300	10/03/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	80.5	% 69.8-14	2						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	10/03/2018	ND	352	88.0	400	12,8	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2018	ND	187	93.7	200	2.12	
DRO >C10-C28*	<10.0	10.0	10/03/2018	ND	197	98.4	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	10/03/2018	ND					
Surrogate: 1-Chlorooctane	84.0	% 41-142	?						
Surrogate: 1-Chloroociadecane	80.1	% 37.6-14	7						

*=Accredited Analyte Cardinal Laboratories

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Colony L. trans



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Received:

10/02/2018

Sampling Date:

10/02/2018

Reported:

10/05/2018

Sampling Type:

Soil

Project Name:

WBDU #23 NONE GIVEN Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location:

NOT GIVEN

Sample ID: VERTICAL 3 @ 6" (H802789-06)

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	10/04/2018	ND	2.09	105	2.00	1.78	
Toluene*	< 0.050	0.050	10/04/2018	ND	1.97	98.6	2.00	1.81	
Ethylbenzene*	<0.050	0.050	10/04/2018	ND	1,93	96.6	2.00	3.43	
Total Xylenes*	<0.150	0.150	10/04/2018	ND	5.80	96.7	6.00	2.90	
Total BTEX	<0.300	0.300	10/04/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	80.1	69.8-14	2						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1630	16.0	10/03/2018	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2018	ND	187	93.7	200	2.12	
DRO >C10-C28*	<10.0	10.0	10/03/2018	ND	197	98.4	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	10/03/2018	ND					
Surrogate 1-Chlorooctane	83.4	% 41-142	•	-					
Surrogate: 1-Chlorooctadecane	77.8	% 37.6-14	7						

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Colony I trans



APACHE CORP - HOBBS **BRUCE BAKER** 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Received: Reported: 10/02/2018 10/05/2018 WBDU #23

Sampling Date: Sampling Type: 10/02/2018

Sampling Condition:

Soil Cool & Intact

Project Name: Project Number: Project Location:

NONE GIVEN **NOT GIVEN**

Sample Received By:

Tamara Oldaker

Sample ID: VERTICAL 3 @ 1' (H802789-07)

BTEX 8021B	mg,	/kg	Analyze	d By: ms				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/04/2018	ND	2.09	105	2.00	1.78	
Toluene*	<0.050	0.050	10/04/2018	ND	1.97	98.6	2.00	1.81	
Ethylbenzene*	<0.050	0.050	10/04/2018	ND	1.93	96.6	2.00	3.43	
Total Xylenes*	<0.150	0.150	10/04/2018	ND	5.80	96.7	6.00	2.90	
Total BTEX	<0.300	0.300	10/04/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	79.3	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/03/2018	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2018	ND	187	93.7	200	2.12	
DRO >C10-C28*	<10.0	10.0	10/03/2018	ND	197	98.4	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	10/03/2018	ND					
Surrogate: 1-Chlorooctane	77.4	% 41-142	?						
Surrogate: 1-Chlorooctadecane	72.0	% 37.6-14	7						

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Colory intreamen



APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Received:

10/02/2018 10/05/2018 Sampling Date: Sampling Type: 10/02/2018

Soil

Reported:

WBDU #23

Sampling Condition:

Cool & Intact

Project Name: Project Number: Project Location:

NONE GIVEN **NOT GIVEN**

Sample Received By:

Tamara Oldaker

Sample ID: VERTICAL 4 @ 1' (H802789-09)

BTEX 8021B	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/04/2018	ND	2.30	115	2.00	1.53	
Toluene*	< 0.050	0.050	10/04/2018	ND	2.18	109	2.00	1.95	
Ethylbenzene*	<0.050	0.050	10/04/2018	ND	2.17	108	2.00	1.60	
Total Xylenes*	< 0.150	0.150	10/04/2018	ND	6.47	108	6.00	1.31	
Total BTEX	<0.300	0.300	10/04/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	79.7	% 698-14	2						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	10/03/2018	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2018	ND	187	93.7	200	2.12	
DRO >C10-C28*	< 10.0	10.0	10/03/2018	ND	197	98.4	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	10/03/2018	ND					
Surrogate 1-Chlorooctane	79.3	% 41-142	······································						
Surrogate: 1-Chlorooctadecane	75.5	% 37.6-14	7						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liablety and Damages. Cardinal's liablety and clients e-clusive remedy for any claim ansing, 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 wholing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequencial damages, including, without lamitation, business enterruptions, loss of use, or loss of profits incurred by clerit, its subsidiances, 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 Laboratones.

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APACHE CORP - HOBBS **BRUCE BAKER** 2350 W. MARLAND BLVD.

HOBBS NM, 88240

Fax To: (575) 393-2432

Received:

10/02/2018

Sampling Date:

10/02/2018

Reported:

10/05/2018

Sampling Type:

Cool & Intact

Soil

Project Name: Project Number: WBDU #23 NONE GIVEN Sampling Condition: Sample Received By:

Tamara Oldaker

Project Location:

NOT GIVEN

Sample ID: VERTICAL 5 @ 6" (H802789-10)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/04/2018	ND	2.30	115	2.00	1.53	
Toluene*	<0.050	0.050	10/04/2018	ND	2.18	109	2.00	1.95	
Ethylbenzene*	<0.050	0.050	10/04/2018	ND	2.17	108	2.00	1.60	
Total Xylenes*	<0.150	0.150	10/04/2018	ND	6.47	108	6.00	1.31	
Total BTEX	<0.300	0.300	10/04/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	80.0 %	6 69.8-14	2						
Chloride, SM4500CI-B	mg/l	kg	Analyze	d By: AC					

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/03/2018	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2018	ND	187	93.7	200	2.12	
DRO >C10-C28*	<10.0	10.0	10/03/2018	ND	197	98.4	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	10/03/2018	ND					

Surrogate: 1-Chlorooctane 72.2 % 41-142 Surrogate: 1-Chlorooctadecane 67.3 % 37.6-147

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APACHE CORP - HOBBS BRUCE BAKER

2350 W. MARLAND BLVD.

HOBBS NM, 88240

Fax To:

(575) 393-2432

Received: Reported: 10/02/2018

10/05/2018 WBDU #23

Project Name: Project Number: Project Location:

NONE GIVEN **NOT GIVEN**

Sampling Date:

10/02/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: VERTICAL 6 @ 6" (H802789-11)

BTEX 8021B	mg/	/kg	Analyze	d By: ms				<u>.</u>	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/04/2018	ND	2.30	115	2.00	1.53	
Toluene*	<0.050	0.050	10/04/2018	ND	2.18	109	2.00	1.95	
Ethylbenzene*	<0.050	0.050	10/04/2018	ND	2.17	108	2.00	1.60	
Total Xylenes*	<0.150	0.150	10/04/2018	ND	6.47	108	6.00	1,31	
Total BTEX	<0.300	0.300	10/04/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	82.6	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Anaiyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/03/2018	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2018	ND	187	93.7	200	2.12	
DRO >C10-C28*	<10.0	10.0	10/03/2018	ND	197	98.4	200	2.58	
EXT DRO >C28-C36	<10.0	10.0	10/03/2018	ND					
Surrogate: 1-Chlorooctane	87.9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	82.0	% 37.6-14	7						

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APACHE CORP - HOBBS **BRUCE BAKER** 2350 W. MARLAND BLVD. HOBBS NM, 88240

(575) 393-2432 Fax To:

Received: Reported: 10/02/2018

10/05/2018

Project Name: Project Number: WBDU #23 NONE GIVEN

Sampling Date:

10/02/2018

Sampling Type:

Soil Cool & Intact

Sampling Condition: Sample Received By:

Tamara Oldaker

Project Location:

NOT GIVEN

Sample ID: VERTICAL 6 @ 1' (H802789-12)

3 T	EX	8021B	

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/04/2018	ND	2.30	115	2.00	1.53	
Toluene*	<0.050	0.050	10/04/2018	ND	2.18	109	2.00	1.95	
Ethylbenzene*	<0.050	0.050	10/04/2018	ND	2.17	108	2.00	1.60	
Total Xylenes*	<0.150	0.150	10/04/2018	ND	6.47	108	6.00	1.31	
Total BTEX	<0.300	0.300	10/04/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL

80.3 %

69.8-142

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/03/2018	ND	416	104	400	3.77	
TPH 8015M	mġ	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/03/2018	ND	187	93.7	200	2.12	
DRO >C10-C28*	<10.0	10.0	10/03/2018	ND	197	98.4	200	2.58	
	< 10.0	10.0	10/03/2018	ND					

Surrogate: 1-Chlorooctane

90.1 %

Surrogate: 1-Chlorooctadecane

85.1%

37-6-147

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APACHE CORP - HOBBS **BRUCE BAKER** 2350 W. MARLAND BLVD. HOBBS NM, 88240

(575) 393-2432 Fax To:

Received: Reported:

RTEV 9021B

10/02/2018 10/05/2018

Project Name: Project Number: Project Location:

WBDU #23 NONE GIVEN **NOT GIVEN**

ma/ka

78.9%

37.6-147

Sampling Date: Sampling Type:

Sampling Condition: Sample Received By: 10/02/2018

Soil Cool & Intact

Tamara Oldaker

Sample ID: VERTICAL 7 @ 6" (H802789-13)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/04/2018	ND	2.30	115	2.00	1.53	
Toluene*	<0.050	0.050	10/04/2018	ND	2.18	109	2.00	1.95	
Ethylbenzene*	<0.050	0.050	10/04/2018	ND	2.17	108	2.00	1.60	
Total Xylenes*	<0.150	0.150	10/04/2018	ND	6.47	108	6.00	1.31	
Total BTEX	<0.300	0.300	10/04/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	81.0	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8530	16.0	10/03/2018	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2018	ND	183	91.5	200	0.255	
DRO >C10-C28*	<10.0	10.0	10/04/2018	ND	172	86.1	200	2.63	
EXT DRO >C28-C36	<10.0	10.0	10/04/2018	ND					
Surrogate 1-Chlorooctane	85.6	% 41-142							

Analyzed By: me

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Surrogate: 1-Chlorooctadecane



APACHE CORP - HOBBS **BRUCE BAKER** 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Received: Reported: 10/02/2018 10/05/2018

Project Name: Project Number: Project Location:

WBDU #23 NONE GIVEN NOT GIVEN

Sampling Date:

10/02/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: VERTICAL 7 @ 2' (H802789-14)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/04/2018	ND	2.30	115	2.00	1.53	
Toluene*	<0.050	0.050	10/04/2018	ND	2.18	109	2.00	1.95	
Ethylbenzene*	<0.050	0.050	10/04/2018	ND	2.17	108	2.00	1.60	
Total Xylenes*	<0.150	0.150	10/04/2018	ND	6.47	108	6.00	1.31	
Total BTEX	<0.300	0.300	10/04/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	80.7	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/03/2018	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/04/2018	ND	183	91.5	200	0.255	
DRO >C10-C28*	<10.0	10.0	10/04/2018	ND	172	86.1	200	2.63	
EXT DRO >C28-C36	<10.0	10.0	10/04/2018	ND					
Surrogate: 1-Chlorooctane	80.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	75.9	% 37.6-14	7.						

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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

ecovery.

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 \$M4500CI-B does not require samples be received at or below 6°C

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Apache				i					Ħ	11		Ø	F	BILL TO						ANALYSIS	<u> </u>		REQUEST	낌	삤	~ 				Ī				_	
Project Manager:	,								\square	P.O.	*	"							╛					_]i	H	<u> </u>	- [:	_	1		\neg		\dashv			
Address:										ပ္ပ	ਡੀ	Company:	•																							
City: Labor	State: NM	Zip:	1	8824D	8	4	9			Attn:	≅																						_			
Phone #:	Fax #:			ļ						A	dre	Address:																					_			
Project #:	Project Owner:									City:																				+						
Project Name:	w80 u 23									State:	e:			$_{N}$	Zip:																					
Project Location:										무	Phone #:	3 4																								
Sampler Name:	Jos Que sciellos 71	וין							_	Fax #:	*																						_			
FOR LAB USE DNLY				П	il	₹	MATRIX	×			묐	PRESERV	2		SAMPLING			1																		
Lab I.D.	Sample I.D.	AB OR (C)OMP.	NTAINERS	JNDWATER	TEWATER				GE	R‡c	BASE:	COOL	R:				<u> </u>	Ext. TPI	BTEX																	
Larral		(G	* # C	GF	W	SC	OII	+	+	ОТ	AC	ICE	ОТ	t	DATE	TIME		L	L	L			Г	L		\vdash		_		<u> </u>					_	
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PLEASE NOTE: Debity and analyses. All claims including sevice. In no event shall Ca	"LEASE MOTE: Leasiny and Lamages. Cardnal's lability and clarifs excluses arready for any claim aircing whother besed in contract or ton, shall be limited in the amount paid by the client for the analyses. All claims and cardinaling those for nepfigence and any other cause whatspoever shall be deermed waived unless muste in writing and necelved by Cardinal within 30 days after completen or interest or the state of the professional cardinal deep state completen or interest or the state of the state of the professional cardinal deep states of the inches of the state of the	y chain	arick	5 5	ethal ess n	na de	1 5 6		and a	ecelv	Q 1	Can	dinat	W. 10	e amount peld by to 30 days after con	the client for the a	pplicab							-		ŀ		- -					ľ		L	
Service. In no event shall Ca	dinal be liable for incidental or consequental damages, including w		į	5	5	å	į	8	8	и С	Š	2	2	5	increment by chart	the exchanged action																				

4.80

Sample Condition
Cool Intact
Pres Pres

CHECKED BY:
(Initials)

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

Relinquished By:

Date:
10 -2 -48
Time:
16 -25
Date:

Received By:

Phone Result: Fax Result: REMARKS:

□ Yes

□ No Add'I Phone #:

Email Results

Time:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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	Company Name:	Dockles,		8/1	BILL TO				ANALYSIS REQUEST	
7,	Project Manager:			P.O. #:				4		
	Address:			Company:						
	city: Hobbs		State: N/M Zip: 88240	Attn:						
	Phone #:	Fax#:		Address:						
	Project #:	Project Owner:		City:				<u> </u>		
	Project Name: W&OU &3	2800 23		State:	Zip:					
	Project Location:			Phone #:					-	
	Sampler Name:	- Joseph M. John J.	4	Fax #:				151		
	FOR LAB USE ONLY		MATRIX	PRESERV.	SAMPLING					
	Lab I.D.	Sample I.D.	G)RAB OR (C)OMP. CONTAINERS GROUNDWATER WASTEWATER SOIL	SLUDGE OTHER: ACID/BASE: CE / COOL OTHER:	DATE TIME	CI-	EXT TPH	BTEX		
	-	vertical 6 B ("	8, /		10-02-12 8/20-01	4	<	7		
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	PLEASE NOTE: LIEBRY 474	PLEASE NOTE: Lability and Olumbors, Curdinal's lability and claim's exclusive remedy for any claim arising whether based in contract or lost, shall be limited to the amount cald by the claim for the	w chaim entaing whether based in co	miract or tort, shall be limited to	the amount oald by the client for		L	L		
	analyses. All claims including service. In no event shell Ca	analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within 30 days after completion of the explicit service. In no event that Cardinal be liable for incidental or consequential demonster, including without limitation, business intermotions has of these of mode incurred by these the substitutions.	eemed waived unless made in writin without limitation, business interrupt	g and received by Cardinal wi	thm 30 days after completion of th lifts incurred by client, its subsidia	Ď.	able			

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

4.82

Sample Condition
Cool Intact
Coes Pres

CHECKED BY: (Initials)

Email Results

Relinquished By:

Time: .25

Received By:

Time:

for incidental or consequental damages, including without limitation, business interru <u>ted to the performance of services hereunder to Cardinal, regardless of whether suc</u>

81-7-94

Phone Result:
Fax Result:
REMARKS:

□ Yes

8 8 0

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