Page 1 of 38

Received by OCD: 10/30/2019 2:25:47 PM Received by OCD: 10/30/2019 2:28:59 PM DAVID FEATHER ENVIRONMENTAL SUI'RERVISOR DIRECT (432) 818-1615 E-MAIL, DAVID FEATHER # Af-ACHECORP COM

October 29, 2019

Mr. Bradford Billings State of New Mexico Oil Conservation Division 1220 South St Francis Drive Santa Fe, NM 87505

RE: 1RP-1786 EBDU 48

Mr. Billings,

In compliance with 19.15.29.15(B) NMAC and the agreement submitted by Apache Corporation on November 8, 2018, Apache Corporation is submitting information related to closure for the release occurring February 8, 2008. Apache is respectfully submitting the closure report based on studies occurring in 2019 that demonstrate the site meeting the requirements of the agency. Unless further information is requested by NMOCD, Apache Corporation considers this release closed.

If there are any questions, please feel free to contact me by telephone at 432-818-1615 or by e-mail at David.Feather@ApacheCorp.com.

Sincerely,

David Feather Environmental Supervisor Apache Corporation - Permian Basin Region

Attachment: Closure Report Dated October 28, 2019

Released to Imaging: 6/22/2022 9:12:52 AM

APACHE CORPORATION – PERMIAN BASIN REGON = 303 VETERANS AIRFARK LANE, STE 3000, MIDLAND, TEXAS 79705

### **Trinity Oilfield Services & Rentals, LLC**



0500 M/ Madada Ok. J. Jakina, MM, 00040

TRINITY

Company: Apache Corporation	_Address: Telephone #:
Site Name:EBDU #48	NMOCD Reference#:1RP-1786
Surface Owner: WFM Ranch, Ltd.	Mineral Owner: State of New Mexico
Unit Letter: M (SW/SW) Section: 12 Township	p: <u>21S</u> Range: <u>37E</u> County: Lea GPS Coordinates: <u>32.48800</u> N <u>-103.12310</u> W
Date/Time of Release: 2/8/2008	Type of Release: 🗹 Crude Oil 🛛 🗹 Produced Water
Volume(s) Released: 10 bbls (total fluid)	Volume(s) Recovered: 8 bbls
Closure Criteria for Impacted Soil (mg/kg; See	e Appendix B, "Closure Criteria Justification"):
Benzene: <u>10</u> BTEX: <u>50</u> GRO+DRO: <u>1,00</u>	00_ TPH: 🗖 100 Chloride: 🗖 600
	☑ 2,500 ☑ 10,000
	<b>2</b> 0,000
Background Information:	
On February 8, 2008, Apache Corporation	n (Apache) discovered a release at the East Blinebry Drinkard Unit (EBDU) #48

On February 8, 2008, Apache Corporation (Apache) discovered a release at the East Blinebry Drinkard Unit (EBDU) #48 well site. A bull nudged open a valve on the injection well, resulting in the release of approximately 10 barrels (bbls) of a mixture of crude oil and produced water. During initial response activities, a vacuum truck was utilized to recover approximately 8 bbls of free-standing liquid, and heavily saturated, visibly stained soil was excavated and stockpiled on-site, pending final disposition.

The release was reported to the New Mexico Oil Conservation Division's (NMOCD) Hobbs District Office on February 14, 2008. The NMOCD "Release Notification & Corrective Action" form (C-141) is provided as Appendix A. A "Site Location Map" is provided as Figure 1.

At some point following the release, additional remediation of the affected area took place. However, no extant documentation or work records of such activities could be located. In addition, no records or analytical results from soil sampling could be obtained from Cardinal Laboratories in Hobbs, New Mexico, as the Environmental Protection Agency's (EPA) mandated time period for record retention has elapsed.

On July 25, 2019, Apache requested Trinity Oilfield Services & Rentals, LLC (Trinity), assume remediation activities at the release site.

#### Summary of Field Activities:

Annaha Composition

On August 2, 2019, representatives of Trinity conducted a sampling event to assess the current state of the site. A hand auger was utilized to advance a series of 4 boreholes (SP-1 through SP-4) in the inferred impacted area around the wellhead to investigate the extent of impacted soil. The boreholes were advanced to total depths of 2 feet below ground surface (bgs). Soil samples were collected at ground surface and 1-foot vertical intervals from each location, and confirmation samples were submitted to Cardinal Laboratories for analysis of chloride, total petroleum hydrocarbons (TPH), and/or benzene, toluene, ethylbenzene, and total xylene (BTEX) concentrations using EPA Methods 4500-CI B, SW 846-8015 Mod, and SW 846-8021B, respectively.

Laboratory analytical results indicated BTEX constituent concentrations were less than the appropriate laboratory method detection limit (MDL) in all submitted soil samples. TPH concentrations ranged from less than the laboratory MDL in samples SP-1 @ Surface, SP-1 @ 1', SP-1 @ 2', SP-2 @ 1', SP-3 @ 1', SP-3 @ 2', SP-4 @ 1', and SP-4 @ 2' to 113 mg/kg in sample SP-3 @ Surface. Chloride concentrations ranged from less than the laboratory MDL in samples SP-1 @ 2' to 144 mg/kg in sample SP-1 @ 2'.

Locations of the auger holes are depicted in Figure 2,"Sample Location Map", and Figure 3, "Sample Location Map (Historical Aerial)". Laboratory analytical results are summarized in Table 1, and an analytical report is provided in Appendix C.

### **Trinity Oilfield Services & Rentals, LLC**



**Environmental Site Summary & Closure Request** 

#### Site Closure Request:

Page 3 of 38

Soil samples collected from the inferred impacted area were analyzed by an NMOCD-approved laboratory, and concentrations of chloride, TPH, and BTEX were below the Closure Criteria listed in Table I of Section 19.15.29.12 of the New Mexico Administrative Code (NMAC) for a site where depth to groundwater is 51 to 100 feet bgs (see Appendix B, "Closure Criteria Justification", for more information). Based on these laboratory analytical results, the initial response and subsequent activities conducted at the site in 2008 were effective in remediating the release. Trinity, on behalf of Apache, hereby requests the NMOCD grant closure to the EBDU #48 release site.

**Enclosures:** 

Figure 1: Site Location Map Figure 2: Sample Location Map Figure 3: Sample Location Map (Historical Aerial) Table 1: Concentrations of Benzene, BTEX, TPH & Chloride in Soil Appendix A: Release Notification & Corrective Action (Form C-141) Appendix B: Closure Criteria Justification Appendix C: Laboratory Analytical Reports

10/28/2019 Ben J. Arguijo Project Manager

Released to Imaging: 6/22/2022 9:12:52 AM

## Figures







Tables

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#### TABLE 1 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

#### APACHE CORPORATION EBDU #48 LEA COUNTY, NEW MEXICO NMOCD REFERENCE #: 1RP-1786

	~	01010518
15M		4500-CI
	TOU	

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· · · · · · · · · · · · · · · · · · ·					EPA SI	N-846 Metho	d 8021B			EPA SW	-846 Meth	od 8015M		4500-CI B
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL- BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	TOTAL BTEX (mg/kg)	GRO C6-C12 (mg/kg)	DRO C12-C28 (mg/kg)	GRO+ DRO (mg/kg)	MRO C28-C35 (mg/kg)	TPH C6-C35 (mg/kg)	CHLORIDE (mg/kg)
NMOC	CD Closure L	imits (mg/kg)		10	NE	NË	NÉ	\$0	NE -	NE	1,000	NE	2,500	10,000
MERSON PROPERTY AND	10000	Service and the	WHICH AND	17.50 million 10.0	CILL DUD IN UM	PRODUCTION OF	NOT THE OWNER	Vertile and	198	Contractor of the	1(8)-5(0)	CPO TOPO	-2748/07/020	(1)
SP-1 @ Surface	Surface	8/2/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SP-1 @ 1'	1'	8/2/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SP-1 @ 2'	2'	8/2/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SP-2 @ Surface	Surface	8/2/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	38.2	38.2	64.5	103	16.0
SP-2 @ 1'	1'	8/2/2019	In-Situ	<0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SP-2 @ 2'	2'	8/2/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	33.7	33.7	36.7	70.4	32.0
SP-3 @ Surface	Surface	8/2/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	51.9	51.9	61.2	113	112
SP-3 @ 1'	1'	8/2/2019	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SP-3 @ 2'	2'	8/2/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SP-4 @ Surface	Surface	8/2/2019	In-Situ	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	15.5	15.5	32.0
SP-4 @ 1'	1'	8/2/2019	In-Situ	<0.050	< 0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SP-4 @ 2'	2'	8/2/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
<b>石水市/目的加速力</b> 目2011	Distance of the	CONSTRUCTION OF	edum/care	146/03/05/02	annananan an	WORKSHOUT	States and the states of the	1225310294	12742542064	10200125	THE REAL PROPERTY AND A	4DAZMETHE	6863(0,619	13.00103103007

NE = Not Established - = Not Analyzed Concentrations in BOLD exceed the NMOCD Closure Limit

Page 1 of 1

Page 9 of 38

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# Appendices

# Appendix A Release Notification & Corrective Action (Form C-141)

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S St. Francis Dr., Santa Fe, NM 875

Page 12 of 38

### State of New Mexico **Energy Minerals and Natural Resources**

**Oil Conservation Division** 1220 South St. Francis Dr.

Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back e of form

220 S St. Fran	cis Dr., Santa	a Fe, NM 87505	5	Sa	enta Fo	e, NM 875	05				side of form
			Rele	ase Notific	atio	n and Co	orrective A	ction (			
						<b>OPERA</b>	FOR	M Initia	al Report		Final Report
Name of Co	mpany A	pache Corpo	oration				atalie Gladden	T	· · · •		
		49, Eunice N				Telephone No. 505-390-4186					
Facility Nar	ne EBDI	J #48				Facility Typ	e				
Surface Ow	ner	·		Mineral C	)wner			Lease N	No. 30-025-	06550	)
						NOEDE		1			
II 's I stars	Castler	Taurahia	D	LUCA Feet from the		N OF REI South Line	Feet from the	East/West Line	Courses		
Unit Letter	Section	Township	Range	reet from the	North	South Line	reet from the	Last west Line	County		
М	12	215	37E	660	South	Line	660	East Line	Lea		
			La	titude		Longitud	le				
				NAT	TIRE	OF REL					
Type of Rele	ase	Oil/Wtr	· · · · · · · · · · · · · · · · · · ·		UND		Release 10	Volume F	Recovered 8		22
Source of Re		Bull opened va	alve			2/8/08		2/8/08			
Was Immedia	ate Notice (	Given?	,	1		If YES, To	Whom?				
			Yes 🖸	🛛 No 🔲 Not Re	equired						
By Whom?						Date and H	lour				· · · · · ·
Was a Water	course Rea	ched?	ى			If YES, Vo	olume Impacting t	the Watercourse.			
			Yes 🖌	No							
If a Watercou	urse was Im	pacted, Descr	ibe Fully,	•		· · · ·		-			
Describe Cau	ise of Probl	em and Reme	dial Action	n Taken.*				52			
Bull opened	valve on inj	ection well, c	ausing wa	ter to run 30-40' f	from we	Ilhead, Vac t	ruck picked up flu	uid, backho	in contanti	nated s	oil and a star
									<b>VC</b> I	AE	
						* )					
Describe Are	a Affected	and Cleanup	Action Tak	:en.*					EB 142	ກມອ	
Apache will (	clean contai	minated area a	and follow	NMOCD guideli	nes for	remediation.					
									BBS	$\mathbf{O}$	00
									DDO		
I hereby certi	fy that the	information gi	iven above	is true and comp	lete to t	he best of my	knowledge and u	nderstand that purs	suant to NM	OCD n	les and
regulations al	ll operators	are required t	o report ar	id/or file certain r	elease n	otifications a	nd perform correct	tive actions for rel	eases which	may en	ndanger
								eport" does not rel: eat to ground water			
or the enviror	nment. In a	iddition, NMC	OCD accep	tance of a C-141	report d	oes not reliev	e the operator of a	eat to ground water responsibility for c	r, surrace wa ompliance w	ier, nui ith anv	other

federal, state, or local laws and/or regulations.

Signature: Autolie Gladden Printed Name: Natalie Gladden	Approved by District	NMENTAL ENGINEER
Title. EH&S Environmental Tech	Approval Date: 2.14.08	Expiration Date: 4.14.08
E-mail Address: Natalie.gladden@apachecorp.com Date: 02/14/08 Phone: 505-390-4186	Conditions of Approval:	Attached LRP. 1786
Attach Additional Sheets If Necessary	- <u></u>	
		3
	2	

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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?	<u>65-70 (ft bgs)</u>
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗋 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🔲 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🔲 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	T Yes No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data
- Data table of soil contaminant concentration data
- $\boxtimes$ Depth to water determination
  - Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release

Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation That plan must include the estimated volume of meterial to be remediation of the release, the report must include a proposed remediation 🗊 an. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling p🗟 That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling part and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

orm C-141	State of New Mexic	O	Incident ID	
ge 4	Oil Conservation Divis	ion	District RP	
			Facility ID	
			Application ID	
	e of a C-141 report does not relieve the opera	tor of responsibility for compli	iance with any other federa	al. state, or local laws
and/or regulations. Printed Name:	e of a C-141 report does not relieve the opera ruce BAKer Baher Ker @ aprchecorp.com		nmental Tect	5R.

Form C-141

State of New Mexico Oil Conservation Division

Incident ID	(2) - C
District RP	
Facility ID	
Application ID	

Rele

### Closure

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

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

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Bruce Bakker	Title: Environmental Jech SR.
Signature: Bruce Baler	Date: 10 - 29 - 19
email: <u>larny.baker@apachecorp.com</u>	Telephone: 432-631-6982
OCD Only	Deter
Received by:	Date:
	y of liability should their operations have failed to adequately investigate and
party of compliance with any other federal, state, or local laws and	water, human health, or the environment nor does not relieve the responsible //or regulations.
0 11 1 0 · M ·	06/22/2022
Closure Approved by: <u>Bradford Billings</u>	Date:06/22/2022
Printed Name: Bradford Billings	
ived by OCD: 10/30/201	Title: [000000000000000000000000000000
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# **Appendix B Closure Criteria Justification**

### TABLE 3 CLOSURE CRITERIA JUSTIFICATION

#### APACHE CORPORATION EBDU #48 LEA COUNTY, NEW MEXICO NMOCD REFERENCE #: 1RP-1786



Groundwater, Water Wells & Other Water Sources	
Depth to groundwater (ft)?	65 - 70
Horizontal distance (ft) from all water sources within 0.5 miles?	1,520 - 1,795
Within 500' of a spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes?	No
Within 1000' of any fresh water well or spring?	No
Surface Water	
Horizontal distance (ft) to nearest significant watercourse?	>1,000
Within 300' of any continuously flowing watercourse or any other significant watercourse?	No
Within 200' of any lakebed, sinkhole or playa lake?	No
Human-Occupied, Environmental & Other Areas	a she was to be a she
Within incorporated municipal boundaries or within a defined municipal fresh water well field?	No
Within 300' of an occupied permanent residence, school, hospital, institution or church?	No
Within 300' of a wetland?	No
Within the area overlying a subsurface mine?	No
Within an unstable area?	No
Within a 100-year floodplain?	්ි No

State Section 2014	NG SSIERO (199						
Benzene	Benzene BTEX GRO + DRO TPH						
10	50	1,000	2,500	10,000			

\*Numerical limits or natural background level, whichever is greater

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		Mexico Office of the State Engli Column/Average Depth to	
(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-	QQQ	Depth Depth Water
POD Number		ty 64 16 4 Sec Tws Rng X Y Distance	Well Water Column
CP 00137 POD1	CP LI	2 2 1 13 21S 37E 676862 3595783* 🌍 591	65
		Average Depth to	Water
		Minimum	Depth:
		Maximum	Depth:
and a special second		and the second second second second second	a second a construction
Record Count: 1			
UTMNAD83 Radius	Search (in meters)		
Easting (X): 676		Northing (Y): 3596080.7 Radius: 804.67	

Page 20 of 38

\*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.

10/28/19 12:17 PM

Page 1 of 1

WATER COLUMN/ AVERAGE DEPTH TO WATER

# **Appendix C Laboratory Analytical Reports**



August 08, 2019

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

**RE: EBDU #48** 

Enclosed are the results of analyses for samples received by the laboratory on 08/02/19 16:30.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited analytes are denoted by <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited analytes are denoted by <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited analytes are denoted analytes are denoted by <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited analytes are denoted by <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited analytes are denoted by <a href="https://www.tceq.texas.gov/field/ga/lab"/>www.tceq.texas.gov/field

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.

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,

Received by OCD: 10/30/2019 2:28:59 PM

Whe Sigh

Mike Snyder For Celey D. Keene Lab Director/Quality Manager

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#### Analytical Results For:

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

Received:	08/02/2019	Sampling Date:	08/02/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	EBDU #48	Sampling Condition:	Cool & Intact
Project Number: Project Location:	NONE GIVEN LEA COUNTY	Sample Received By:	Tamara Oldaker

#### Sample ID: SP - 1 SURFACE 32.488033 (H902664-01)

**BTEX 8021B** mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2019	ND	1.79	89.3	2.00	3.41	
Toluene*	<0.050	0.050	08/06/2019	ND	1.86	93.0	2.00	1.98	
Ethylbenzene*	<0.050	0.050	08/06/2019	ND	1.76	88.0	2.00	2.31	
Total Xylenes*	<0.150	0.150	08/06/2019	ND	5.34	88.9	6.00	2.32	
Total BTEX	<0.300	0.300	08/06/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	115 9	% 73.3-12	9						

Analyzed By: AC

Chloride, SM4500CI-B ma/ka

emonacy on the order of	11.9		Andiyee	0 b). NO					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/07/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2019	ND	210	105	200	0.746	
DRO >C10-C28*	<10.0	10.0	08/06/2019	ND	202	101	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	08/06/2019	ND					
Surrogate: 1-Chlorooctane	90.8	% 41-142	)						
Surrogate: 1-Chlorooctadecane	88.7	% 37.6-14	7						

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#### Analytical Results For:

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

Received: Reported: Project Name: Project Number:	08/02/2019 08/08/2019 EBDU #48	Sampling Date: Sampling Type: Sampling Condition:	08/02/2019 Soil Cool & Intact Tamara Oldakor
Project Number: Project Location:	NONE GIVEN LEA COUNTY	Sample Received By:	Tamara Oldaker

#### Sample ID: SP - 1 @ 1 - 103.123164 (H902664-02)

**BTEX 8021B** Analyzed By: MS mg/kg

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2019	ND	1.79	89.3	2.00	3.41	
Toluene*	<0.050	0.050	08/06/2019	ND	1.86	93.0	2.00	1.98	
Ethylbenzene*	<0.050	0.050	08/06/2019	ND	1.76	88.0	2.00	2.31	
Total Xylenes*	<0.150	0.150	08/06/2019	ND	5.34	88.9	6.00	2.32	
Total BTEX	<0.300	0.300	08/06/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIC 107 % 73.3-129

Chioride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/07/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2019	ND	210	105	200	0.746	
DRO >C10-C28*	<10.0	10.0	08/06/2019	ND	202	101	200	1.51	
EXT DRO >C28-C36	< 10.0	10.0	08/06/2019	ND					
Surrogate: 1-Chlorooctane	88.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	88.8	% 37.6-14	7						

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#### Analytical Results For:

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

Received:	08/02/2019	Sampling Date:	08/02/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	EBDU #48	Sampling Condition:	Cool & Intact
Project Number: Project Location:	NONE GIVEN LEA COUNTY	Sample Received By:	Tamara Oldaker

#### Sample ID: SP - 1 @ 2 (H902664-03) EV 00340

mg/kg	Analyzed By: MS						
ult Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
0.050	08/06/2019	ND	1.79	89.3	2.00	3.41	
0.050	08/06/2019	ND	1.86	93.0	2.00	1.98	
0.050	08/06/2019	ND	1.76	88.0	2.00	2.31	
0.150	08/06/2019	ND	5.34	88.9	6.00	2.32	
0.300	08/06/2019	ND					
	Wilt         Reporting Limit           050         0.050           050         0.050           050         0.050           050         0.050           050         0.150	Wilt         Reporting Limit         Analyzed           050         0.050         08/06/2019           050         0.050         08/06/2019           050         0.050         08/06/2019           050         0.050         08/06/2019           050         0.150         08/06/2019	Wilt         Reporting Limit         Analyzed         Method Blank           050         0.050         08/06/2019         ND           050         0.050         08/06/2019         ND           050         0.050         08/06/2019         ND           050         0.050         08/06/2019         ND           050         0.150         08/06/2019         ND	Wit         Reporting Limit         Analyzed         Method Blank         BS           050         0.050         08/06/2019         ND         1.79           050         0.050         08/06/2019         ND         1.86           050         0.050         08/06/2019         ND         1.76           050         0.150         08/06/2019         ND         5.34	Wilt         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           050         0.050         08/06/2019         ND         1.79         89.3           050         0.050         08/06/2019         ND         1.86         93.0           050         0.050         08/06/2019         ND         1.76         88.0           050         0.150         08/06/2019         ND         5.34         88.9	Wilt         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           050         0.050         08/06/2019         ND         1.79         89.3         2.00           050         0.050         08/06/2019         ND         1.86         93.0         2.00           050         0.050         08/06/2019         ND         1.76         88.0         2.00           050         0.050         08/06/2019         ND         1.76         88.0         2.00           150         0.150         08/06/2019         ND         5.34         88.9         6.00	Wilt         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           050         0.050         08/06/2019         ND         1.79         89.3         2.00         3.41           050         0.050         08/06/2019         ND         1.86         93.0         2.00         1.98           050         0.050         08/06/2019         ND         1.76         88.0         2.00         2.31           150         0.150         08/06/2019         ND         5.34         88.9         6.00         2.32

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Surrogate: 4-Bromofluorobenzene (PIL 107 % 73.3-129

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Chloride, SM4500CI-B	mg/	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/07/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2019	ND	210	105	200	0.746	
DRO >C10-C28*	< 10.0	10.0	08/06/2019	ND	202	101	200	1.51	
EXT DRO >C28-C36	< 10.0	10.0	08/06/2019	ND					
Surrogate: 1-Chlorooctane	91.4	% 41-142	?						
Surrogate: 1-Chlorooctadecane	90.1	% 37.6-14	7						

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#### Analytical Results For:

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

Received:	08/02/2019	Sampling Date:	08/02/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	EBDU #48	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP - 2 SURFACE 32.488094 (H902664-04)

**BTEX 8021B** mg/kg Analyzed By: MS ..... ....

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2019	ND	1.79	89.3	2.00	3.41	
Toluene*	<0.050	0.050	08/06/2019	ND	1.86	93.0	2.00	1.98	
Ethylbenzene*	<0.050	0.050	08/06/2019	ND	1.76	88.0	2.00	2.31	
Total Xylenes*	<0.150	0.150	08/06/2019	ND	5.34	88.9	6.00	2.32	
Total 8TEX	<0.300	0.300	08/06/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL 106 % 73.3-129

Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/07/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2019	ND	210	105	200	0.746	
DRO >C10-C28*	38.2	10.0	08/06/2019	ND	202	101	200	1.51	
EXT DRO >C28-C36	64.5	10.0	08/06/2019	ND					
Surrogate: 1-Chlorooctane	87_5	% 41-142	2						
Surrogate: 1-Chlorooctadecane	91.6	% 37.6-14	7						

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#### Analytical Results For:

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

Received:08/02/2019Reported:08/08/2019Project Name:EBDU #48Project Number:NONE GIVENProject Location:LEA COUNTY	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	08/02/2019 Soil Cool & Intact Tamara Oldaker
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#### Sample ID: SP - 2 @ 1 -103.123100 (H902664-05)

**BTEX 8021B** mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier < 0.050 0.050 08/06/2019 ND 1.79 89.3 2.00 Benzene\* 3.41 Toluene\* < 0.050 0.050 08/06/2019 ND 1.86 93.0 2.00 1.98 Ethylbenzene\* < 0.050 0.050 08/06/2019 ND 1.76 88.0 2.00 2.31 Total Xylenes\* <0.150 0.150 08/06/2019 ND 5.34 88.9 6.00 2.32 Total BTEX < 0.300 0.300 08/06/2019 ND

Surrogate: 4-Bromofluorobenzene (PIE 117 % 73.3-129

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/07/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2019	ND	210	105	200	0.746	
DRO >C10-C28*	<10.0	10.0	08/06/2019	ND	202	101	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	08/06/2019	ND					
Surrogate 1-Chlorooctane	87.9	% 41-142	,						
Surrogate 1-Chlorooctadecane	88.0	% 37,6-14	7						

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## **CARDINAL** Laboratories

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

#### Analytical Results For:

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

Received:	08/02/2019	Sampling Date:	08/02/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	EBDU #48	Sampling Condition:	Cool & Intact
Project Number: Project Location:	NONE GIVEN LEA COUNTY	Sample Received By:	Tamara Oldaker

#### Sample ID: SP - 2 @ 2 (H902664-06)

**BTEX 8021B** mg/kg Analyzed By: MS Qualifier Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050 0.050 08/06/2019 ND 1.79 89.3 2.00 3.41 Benzene\* 0.050 93.0 Toluene\* < 0.050 08/06/2019 ND 1.86 2.00 1.98 Ethylbenzene\* <0.050 0.050 08/06/2019 ND 1.76 88.0 2.00 2.31 Total Xylenes\* < 0.150 0.150 08/06/2019 ND 5.34 88.9 6.00 2.32 Total BTEX < 0.300 0.300 08/06/2019 ND

73\_3-129 Surrogate: 4-Bromofluorobenzene (PIL 113 %

Chloride, SM4500CI-B	mg.	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/07/2019	NÐ	432	108	400	0.00	
TPH 8015M	mg.	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2019	ND	210	105	200	0.746	
DRO >C10-C28*	33.7	10.0	08/06/2019	ND	202	101	200	1.51	
EXT DRO >C28-C36	36.7	10.0	08/06/2019	ND					
Surrogate: 1-Chlorooctane	94.9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	96.2	% 37.6-14	7						

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#### Analytical Results For:

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

Received:	08/02/2019	Sampling Date:	08/02/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	EBDU #48	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldake
Project Location:	LEA COUNTY		

#### Sample ID: SP - 3 SURFACE 32.487938 (H902664-07)

**BTEX 8021B** mg/kg Analyzed By: MS Reporting Limit Qualifier Analyte Result Analyzed Method Blank BS % Recovery True Value QC RPD Benzene\* <0.050 0.050 08/06/2019 ND 1.79 89.3 2.00 3.41 < 0.050 0.050 08/06/2019 ND 1.86 93.0 2.00 1.98 Toluene\* Ethylbenzene\* <0.050 0.050 08/06/2019 ND 1.76 88.0 2.00 2.31 Total Xylenes\* <0.150 0.150 08/06/2019 ND 5.34 88.9 6.00 2.32 Total BTEX < 0.300 0.300 08/06/2019 ND Surrogate: 4-Bromofluorobenzene (PIE 118% 73.3-129 Chloride, SM4500CI-B mg/kg Analyzed By: AC Analyte Result **Reporting Limit** Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier 08/07/2019 432 Chloride 112 16.0 ND 108 400 0.00 **TPH 8015M** mg/kg Analyzed By: MS Analyte Result **Reporting Limit** Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier 0.746 GRO C6-C10\* 10.0 08/06/2019 210 105 200 <10.0 ND DRO >C10-C28\* 51.9 10.0 08/06/2019 ND 202 101 200 1.51 EXT DRO >C28-C36 61.2 10.0 08/06/2019 ND 41-142 87.0 % Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane 90.1% 37.6-147

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#### Analytical Results For:

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

Received: Reported: Project Name: Project Number: Project Location:	08/02/2019 08/08/2019 EBDU #48 NONE GIVEN LEA COUNTY	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	08/02/2019 Soil Cool & Intact Tamara Oldaker
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#### Sample ID: SP - 3 @ 1 -103.123016 (H902664-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2019	ND	1.79	89.3	2.00	3.41	
Toluene*	<0.050	0.050	08/06/2019	ND	1.86	93.0	2.00	1.98	
Ethylbenzene*	<0.050	0.050	08/06/2019	ND	1.76	88.0	2.00	2.31	
Total Xylenes*	<0.150	0.150	08/06/2019	ND	5.34	88.9	6.00	2.32	
Total BTEX	<0.300	0.300	08/06/2019	ND					
Surrogate 4-Bromofluorobenzene (PIL	115 9	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	96.0	16.0	08/07/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2019	ND	210	105	200	0.746	
DRO >C10-C28*	<10.0	10.0	08/06/2019	ND	202	101	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	08/06/2019	ND					
Surrogate: 1-Chlorooctane	80.6	% 41-142							
Surrogate: 1-Chlorooctadecane	79.5	% 37.6-14	7						

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#### Analytical Results For:

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

ceived: 08/02/2019 ported: 08/08/2019 pject Name: EBDU #48 pject Number: NONE GIVEN pject Location: LEA COUNTY	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	08/02/2019 Soil Cool & Intact Tamara Oldaker
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#### Sample ID: SP - 3 @ 2 (H902664-09)

BTEX 80218	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2019	ND	1.79	89.3	2.00	3.41	
Toluene*	<0.050	0.050	08/06/2019	ND	1.86	93.0	2.00	1.98	
Ethylbenzene*	<0.050	0.050	08/06/2019	ND	1.76	88.0	2.00	2.31	
Total Xylenes*	<0.150	0.150	08/06/2019	ND	5.34	88.9	6.00	2.32	
Total BTEX	<0.300	0.300	08/06/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107 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	08/07/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2019	ND	210	105	200	0.746	
DRO >C10-C28*	<10.0	10.0	08/06/2019	ND	202	101	200	1.51	
EXT DRO >C28-C36	< 10.0	10.0	08/06/2019	ND					
Surrogate: 1-Chlorooctane	87.7	% 41-142	?						
Surrogate: 1-Chlorooctadecane	86.4	% 37.6-14	7						

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#### Analytical Results For:

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

Received:	08/02/2019	Sampling Date:	08/02/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	EBDU #48	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldake
Project Location:	LEA COUNTY		

#### Sample ID: SP - 4 @ SURFACE (H902664-10)

**BTEX 8021B** mg/kg Analyzed By: MS Analyte Result **Reporting Limit** Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Benzene\* < 0.050 0.050 08/06/2019 ND 1.79 89.3 2.00 3.41 Toluene\* < 0.050 0.050 08/06/2019 ND 1.86 93.0 2.00 1.98 <0.050 0.050 08/06/2019 Ethylbenzene\* ND 1.76 88.0 2.00 2.31 **Total Xylenes\*** <0.150 0.150 08/06/2019 ND 5.34 88.9 6.00 2.32 **Total BTEX** < 0.300 0.300 08/06/2019 ND Surrogate 4-Bromofluorobenzene (PIL 122 % 73.3-129 Chloride, SM4500CI-B Analyzed By: AC mg/kg Analyte Result **Reporting Limit** Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 16.0 08/07/2019 ND 432 32.0 108 400 0.00 TPH 8015M Analyzed By: MS mg/kg Analyte Result **Reporting Limit** Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier GRO C6-C10\* 10.0 <10.0 08/06/2019 ND 105 200 210 0.746 DRO >C10-C28\* 08/06/2019 <10.0 10.0 ND 202 101 200 1.51 EXT DRO >C28-C36 15.5 10.0 08/06/2019 ND 41-142 Surrogate: 1-Chlorooctane 85.0% Surrogate: 1-Chlorooctadecane 83.2% 37.6-147

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#### Analytical Results For:

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

Received:	08/02/2019	Sampling Date:	08/02/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	EBDU #48	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP - 4 @ 1 32.440853 (H902664-11)

**BTEX 8021B** mg/kg Analyzed By: MS Analyzed Analyte Result Reporting Limit Method Blank 8S % Recovery True Value QC RPD Qualifier Benzene\* < 0.050 0.050 08/07/2019 ND 1.95 97.3 2.00 4.45 <0.050 0.050 08/07/2019 ND 1.95 97.5 2.00 2.91 Toluene\* 0.050 08/07/2019 ND Ethylbenzene\* <0.050 2.07 104 2.00 7.85 Total Xylenes\* 0.150 08/07/2019 < 0.150 ND 6.43 107 6.00 8.88 Total BTEX <0.300 0.300 08/07/2019 ND Surrogate: 4-Bromofluorobenzene (PIL 106 % 73,3-129 Analyzed By: AC Chloride, SM4500CI-B mg/kg True Value QC Qualifier Analyzed Method Blank BS % Recovery RPD Analyte Result Reporting Limit Chloride 16.0 16.0 08/07/2019 ND 432 108 400 0.00 **TPH 8015M** Analyzed By: MS mg/kg Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier GRO C6-C10\* 10.0 08/06/2019 ND 210 105 200 0.746 <10.0 DRO >C10-C28\* 08/06/2019 202 101 <10.0 10.0 ND 200 1.51 EXT DRO >C28-C36 <10.0 10.0 08/06/2019 ND

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Surrogate: I-Chlorooctane

Surrogate: 1-Chlorooctadecane

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818%

80.5 %

41-142

37.6-147

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#### Analytical Results For:

APACHE CORP - HOBBS 8RUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	08/02/2019	Sampling Date:	08/02/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	EBDU #48	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY		

#### Sample ID: SP - 4 @ 2 -103.45807 (H902664-12)

**BTEX 8021B** mg/kg Analyzed By: MS **Reporting Limit** Analyzed Method Blank Analyte Result 8\$ % Recovery True Value QC RPD Qualifier 0.050 08/07/2019 Benzene\* < 0.050 ND 1.95 97.3 2.00 4.45 Toluene\* <0.050 0.050 08/07/2019 ND 1.95 97.5 2.00 2.91 <0.050 0.050 08/07/2019 ND Ethylbenzene\* 2.07 104 2.00 7.85 Total Xylenes\* <0.150 0.150 08/07/2019 ND 6.43 107 6.00 8.88 **Total BTEX** <0.300 0.300 08/07/2019 ND Surrogate: 4-Bromofluorobenzene (PIL 105 % 73.3-129 Chloride, SM4500CI-B Analyzed By: AC mg/kg % Recovery Result **Reporting Limit** Analyzed Method Blank BS True Value QC Analyte RPD Qualifier 08/07/2019 Chloride <16.0 16.0 ND 432 108 400 0.00 **TPH 8015M** Analyzed By: MS mg/kg Analyte Reporting Limit Analyzed Method Blank Result 8S % Recovery True Value QC RPD Qualifier GRO C6-C10\* <10.0 10.0 08/06/2019 ND 213 107 200 0.553 DRO >C10-C28\* <10.0 10.0 08/06/2019 208 200 ND 104 0.767

ND

08/06/2019

 Surrogate:
 1-Chlorooctane
 62.6 %
 41-142

 Surrogate:
 1-Chlorooctadecane
 59.3 %
 37.6-147

<10.0

10.0

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EXT DRO >C28-C36

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

#### **Notes and Definitions**

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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.
15	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** 

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### Page 15 of 16 **ARDINAL** aboratories

#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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FOR LAB USE ONLY					M	ATR	X	-	PR	ESE	RV.		SAMPL	NG	1						ł							
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### 91 10 91 96s9 ARDINAL boratories

#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Delivered By: (Circle One) 5,4° #97 Sampler - UPS - Bus - Other: Corrected 5-8°

Company Name	(015) 393-2326 FAX (015) 393-24		_	_		_			20		:]]	L TO						ANA	LYSI	S RE	QUE	ST			
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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

District IV 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

Operator: 0	OGRID:
APACHE CORPORATION	873
303 Veterans Airpark Ln	Action Number:
Midland, TX 79705	2166
	Action Type:
	[C-141] Release Corrective Action (C-141)
CONDITIONS	

#### CONDITIONS

Created By		Condition Date
bbillings	None	6/22/2022

Action 2166