

Corrective Action Plan

By Olivia Yu at 8:29 am, Jul 27, 2018

APPROVED

NMOCD approves of the delineation completed for 1RP-5006. For the proposed remediation, each different depth of excavation must have corresponding sidewall and bottom confirmation samples at no greater than 50 ft. apart.

July 2, 2018

Re: EBDU 28

API# 30-025-06538 Case # 1RP-5006

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 March 23, 2018 a release occurred due to a buried injection line failed resulting in the loss of produced water. An initial C-141 was submitted to NMOCD on March 30, 2018. The release area is located north of Eunice New Mexico (GPS Coordinates 32.499752 -103.1231003) in unit letter D section 12 Township 21S Range 37E. A search radius of 2000 meters for groundwater wells was conducted utilizing data from the NMOSE and USGS. A total of 5 USGS wells were found to be inside the radius. Two wells our located inside the bottom of Monument Draw and were excluded from the average the remaining three wells estimate groundwater below the release area to be 73 feet.

A total of 7 verticals were conducted utilizing a backhoe in one foot intervals to delineate the vertical extend of contamination on May 7 through May 9, 2018. Field samples were collected and titrated for chlorides. Representative samples were collected from all verticals and submitted to a commercial laboratory for analysis of CI-, TPH, and BTEX.

Corrective Action:

Upon review of the vertical data collected Apache Corporation proposes that the area around SP 1 be excavated to a depth of two feet below ground surface. The area around SP 3 be excavated to a depth of 3 feet below ground surface. The area around SP 2, 4, 5, 6 be excavated to a depth of one foot below ground surface. The pasture area SP 7 be excavated to a depth of 4 feet below ground surface. Once the excavation is complete final wall and bottom samples will be collected and submitted to a commercial laboratory for analysis. All excavated material will be exported to a NMOCD approved disposal facility. The excavation will be backfield with imported caliche for the lease road and pad and topsoil for the excavation in the pasture. Attached is the data for your review.

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

Submitted by;

Bruce Baker

Environmental Technician larry.baker@apachecorp.com Cell# 432-631-6982 Off# 575-393-7106

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

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

Form C-141 Revised August 8, 2011 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

			Rele	ease Notific	ation	and Co	rre	ctive A	ctior	1			
						OPERA'	FOR	<u> </u>			l Report		Final Report
		pache Corpo		13.4.002.40		Contact Bruce Baker Telephone No. (432) 631-6982							
	Address 2350 W Marland Street, Hobbs, NM 88240 Facility Name EBDU 28				relephone r Facility Typ		432) 631-6 njection W						
							joonen	-	LABINI	20.025.6	V. 520		
Surface Owner Private Mineral Owner			wner b	ederal				API No.	30-025-0	16538			
						OF RE							
Unit Letter D	Section 12	Township 21S	Range 37E	Feet from the 330°		South Line FNL	Feet	from the	ı	West Line FWL		Count Lea	У
				Latitude 32.4									
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Type of Rele						produced v	vater	ase 50 barre		produced v			els of
Source of Re								f Occurrenc	:e	1	lour of Dis at 8:00 a.m	_	
Was Immedi	ate Notice C		Yes 🗵	No □ Not Re	quired	If YES, To Olivia Yu			essage	and sent ema	iil		
By Whom?				,				3/26/2018 at					
Was a Water	course Reac		Yes 🗵	No		If YES, Volume Impacting the Watercourse.							
		em and Reme tiled resulting		n Taken.* s of fluid. The lin	e was iso			-		2 pm, A			
		and Cleanup / lease was co		ken.* o lease road and	pad exc	cept for a sr	nall p	ortion of p	asture	was affecte	ed approxi	mately	2000
regulations a public health should their or the enviro	Il operators or the envir operations h nment. In a	are required to ronment. The ave failed to a	o report an acceptand idequately ICD accep	e is true and compled/or file certain race of a C-141 report investigate and ratance of a C-141 report investigate.	elease no ort by the emediate	otifications a NMOCD m contaminati	nd per arked on the	rform correct as "Final R at pose a thr	ctive ac eport" (eat to g	tions for rele does not relie round water,	ases which eve the ope surface wa	may en rator of ater, hu	danger liability man health
	4						<u>O</u>	IL CON	SERV	/ATION	DIVISIO	<u> </u>	
Signature: Buce Balan			Approved by Environmental Specialist:										
Printed Nam	e: Bruce B	aker					Luvii			» (J			
Title: Enviro	nmental Te	chnician			/	Approval Da	te:	4/2/201	8	Expiration I	Date:		
E-mail Addr	ess: larry.b	aker@apache	corp.com			Conditions o					Attached	d	
	0/2018 tional Shee	ets If Necess		(432) 631-6982		see attac	ned	directiv	e				

1RP-5006

nOY1809257328

pOY1809257487





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National Water Information System: Web Interface

USGS Water Resources	USGS	Water	Resources
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Data Category:		Geographic Area:		
Groundwater	V	New Mexico	~	GO
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1720 meters

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Agency code = usgs site_no list =

• 323025103062801

Minimum number of levels = 1

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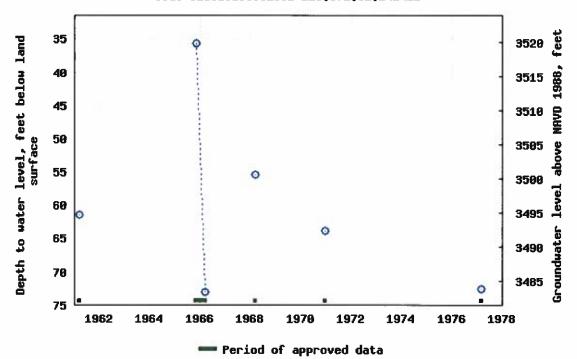
USGS 323025103062801 21S.37E.01.242422

Available data for this site	Groundwater: Field measurements	✓ GO
Lea County, New Mexico		
Hydrologic Unit Code 1307	0007	
Latitude 32°30'25", Longit	ude 103°06'28" NAD27	
Land-surface elevation 3,5	56 feet above NAVD88	
The depth of the well is 90	feet below land surface.	
This well is completed in th	e Alluvium, Bolson Deposits	and Other Surface
Deposits (110AVMB) local a	aquifer.	

Output formats

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Table of data							
Tab-separated data							
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USGS 323025103062801 215.37E.01.242422



Breaks in the plot represent a gap of at least one year between field measurements.

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1.65 1.47 nadww01





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USGS 323022103062301 21S.38E.06.133211

Available data for this site Groundwater. Field measurements GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°30'22", Longitude 103°06'23" NAD27

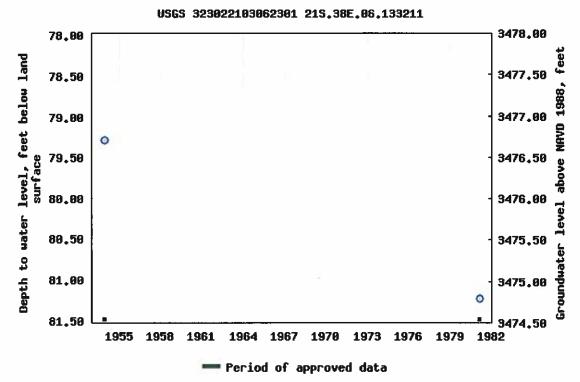
Land-surface elevation 3,556 feet above NAVD88

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

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

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• 322901103071101

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USGS 322901103071101 21S.37E.12.34331

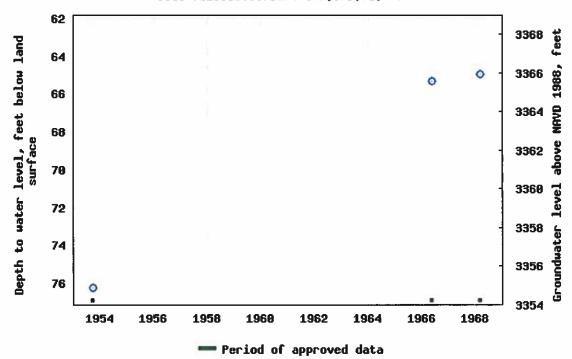
Available data for this site	Groundwater:	Field measurements	~	GO
Lea County, New Mexico				
Hydrologic Unit Code 1307	0007			
Latitude 32°29'01", Longit	ude 103°07	7'11" NAD27		
Land-surface elevation 3,4	31 feet abo	ve NAVD88		
The depth of the well is 10	0 feet belov	v land surface.		
This well is completed in th	e Alluvium.	Bolson Deposits	and	Other 9

Deposits (110AVMB) local aquifer.

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output formats					
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Monument Draw excluded

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322932103082701

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USGS 322932103082701 21S.37E.11.311111

Available data for this site Groundwater: Field measurements GO

Lea County, New Mexico

Hydrologic Unit Code -
Latitude 32°29'32", Longitude 103°08'27" NAD27

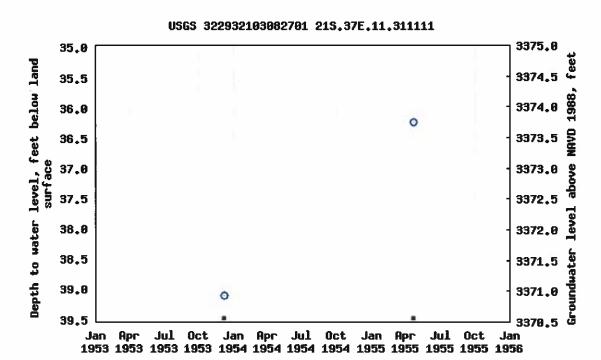
Land-surface elevation 3,410 feet above NAVD88

The depth of the well is 75 feet below land surface.

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

Deposits (110AVMB) local aquifer.

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- Period of approved data

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• 322921103083001

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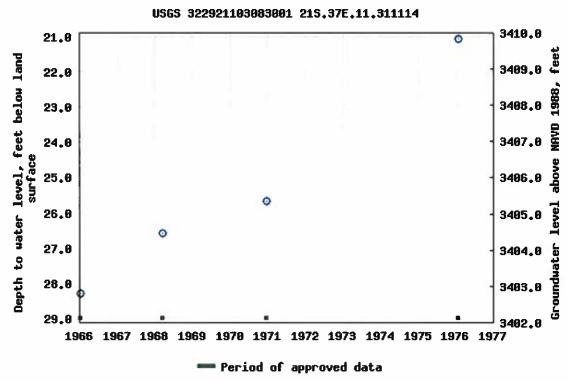
Available data for this site Groundwater: Field measurements

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°29'21", Longitude 103°08'30" NAD27
Land-surface elevation 3,431 feet above NAVD88
The depth of the well is 76 feet below land surface.
This well is completed in the Alluvium, Bolson Deposits and Other Surface

Deposits (110AVMB) local aquifer.

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EBDU 28 Delineation Data

						SP 1					
Depth	Field Cl-	Lab Cl-	Benzene	Benzene Toluene	Ethybenzene	Ethybenzene Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	Soil Description
Surface	3,295	3800	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	21.7	<10.0	White Caliche
1'	1563										Brown Sand
2'	649	592	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	Brown Sand/Caliche
3	320	720					:				Tan Caliche
4'	226										Tan Caliche
5'	418					100					Tan Caliche
6'	306										Tan Caliche
7'	364										Tan Caliche
83	263										Tan Caliche
9'	420										Tan Caliche
10'	235	336									Tan Caliche
11'	226	320									Tan Caliche

Surface	Depth		11'	10'	9'	00,	7'	6)	5'	4'	αį	2'	1'	Surface	Depth	
1,178	Field Cl-		222	169	450	367	498	613	928	583	581	506	308	5,746	Field Cl-	
	Lab Cl-		96	80				128	736	352				6260	Lab Cl-	
	Benzene													<0.050	Benzene	
	Toluene										:			<0.050	Toluene	
	Ethybenzene													<0.050	Ethybenzene	
	Total Xylenes	SP 3	. .											<0.150	Total Xylenes	SP 2
	Total BTEX													<0.300	Total BTEX	
	GRO													<10.0	GRO	
	DRO													<10.0	DRO	
	EXT DRO													<10.0	EXT DRO	
White Caliche	Soil Description		Tan Caliche	Brown Sand	Brown Sand	White Caliche	Soil Description									

						SP 7	i				
Depth	Field Cl-	Lab Cl-	Benzene	Toluene	Ethybenzene	Benzene Toluene Ethybenzene Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	EXT DRO Soil Description
Surface	060′8										Brown Sand
1'	2659										Brown Sand
2'	226	320	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	Brown Sand/Caliche
<u>υ</u>	447	400									Tan Caliche
4'	240	160									Tan Caliche
ΩĪ	147	32									Tan Caliche

Brown Sand									32	174	2'
Brown Sand									48	193	1'
Caliche	<10.0	63.8	<10.0	<0.300	<0.150	<0.050	<0.050	<0.050	39200		Surface
Soil Description	EXT DRO	DRO	GRO	Total BTEX	Benzene Toluene Ethybenzene Total Xylenes Total BTEX	Ethybenzene	Toluene	Benzene	Lab Cl-	Field Cl- Lab Cl-	Depth
					SP 6			į			
Brown Sand									16	181	2'
Brown Sand									32	210	1'
White Caliche	17.2	63.8	<10.0	<0.300	<0.150	<0.050	<0.050	<0.050	81600		Surface
Soil Description	EXT DRO	DRO	GRO	Total BTEX	Benzene Toluene Ethybenzene Total Xylenes Total BTEX	Ethybenzene	Toluene	Benzene	Lab Cl-	Field Cl-	Depth
					SP 5						

Brown Sand									<16	112	2'
White Caliche									304	184	1'
White Caliche	<10.0	<10.0	<10.0	<0.300	<0.150	<0.050	<0.050	<0.050	64	2226	Surface
RO Soil Description	EXT DRO	DRO	GRO	Total BTEX	Ethybenzene Total Xylenes	Ethybenzene	Toluene	Benzene	Lab Cl-	Field Cl-	Depth
				10	SP 4	:					
Tan Caliche									224	184	4'
Brown Sand									32	229	3
Brown Sand	-									1971	2'
Brown Sand	<10.0	<10.0	<10.0	<0.300	<0.150	<0.050	<0.050	<0.050	2240	2065	1'



May 11, 2018

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EBDU 28

Enclosed are the results of analyses for samples received by the laboratory on 05/07/18 13:26.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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

Received:

05/07/2018

Reported: Project Name: 05/11/2018 EBDU 28

Project Number: Project Location: NONE GIVEN

Sampling Date:

05/07/2018

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Tamara Oldaker

Sample ID: SP 1 SURFACE (H801257-01)

mg/	rkg	Anaiyze	а ву: м5					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	05/09/2018	ND	1.75	87.5	2.00	1.44	
<0.050	0.050	05/09/2018	ND	1.83	91.5	2.00	2.31	
<0.050	0.050	05/09/2018	ND	1.85	92.3	2.00	1.80	
<0.150	0.150	05/09/2018	ND	5.69	94.8	6.00	1.30	
<0.300	0.300	05/09/2018	ND					3
102	% 72-148	3						
mg,	/kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
3800	16.0	05/08/2018	ND	400	100	400	0.00	
mg,	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	05/08/2018	ND	200	100	200	2.85	
21.7	10.0	05/08/2018	ND	193	96.3	200	4.44	
<10.0	10.0	05/08/2018	ND					
84.1	% 41-142	?						
83.2	% 376-14	7						
	Result <0.050 <0.050 <0.050 <0.150 <0.300 102 mg/ Result 3800 mg/ Result <10.0 21.7 <10.0	<0.050 <0.050 <0.050 <0.050 <0.050 <0.150 <0.300 D.150 <0.300 72-1-18 mg/kg Result Reporting Limit 3800 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0 <10.0	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank BS <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery < 0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

Cardinal Laboratories

*=Accredited Analyte

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alogit time



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

Fax To:

(575) 393-2432

Received: Reported: 05/07/2018

05/11/2018

Project Name: Project Number: EBDU 28 NONE GIVEN

Project Location:

Sampling Date:

05/07/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Tamara Oldaker

NOT GIVEN

Sample ID: SP 1 2' (H801257-02)

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	05/09/2018	ND	1.75	87.5	2.00	1.44	
Toluene*	<0.050	0.050	05/09/2018	ND	1.83	91.5	2.00	2.31	
Ethylbenzene*	<0.050	0.050	05/09/2018	ND	1.85	92.3	2.00	1.80	
Total Xylenes*	<0.150	0.150	05/09/2018	ND	5.69	94.8	6.00	1.30	
Total BTEX	<0.300	0.300	05/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104	% 72-148	1						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8\$	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	05/08/2018	ND	400	100	400	0.00	
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	05/08/2018	ND	200	100	200	2.85	
DRO >C10-C28*	<10.0	10.0	05/08/2018	ND	193	96.3	200	4.44	
EXT DRO >C28-C36	<10.0	10.0	05/08/2018	ND					
Surrogate: 1-Chlorooctane	94.8	% 41-142	•						
Surrogate: 1-Chlorooctadecane	91.2	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Colog Introno

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 6



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

Fax To:

(575) 393-2432

Received:

05/07/2018

Reported:

05/11/2018

Project Name: Project Number: **EBDU 28** NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

05/07/2018

Sampling Type: Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Tamara Oldaker

Sample ID: SP 1 3' (H801257-03)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyzed

Analyzed

Analyte

Analyte

Result

720

16.0 05/08/2018

Reporting Limit

Reporting Limit

Method Blank ND

BS 400 % Recovery 100

True Value QC RPD 400 0.00 Qualifier

Sample ID: SP 1 10' (H801257-04)

Chloride, SM4500CI-B

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

% Recovery

Chloride

Chloride

Result 336

05/08/2018 16.0

Method Blank ND

BS 400

100

True Value QC 400

RPD Qualifier 0.00

Sample ID: SP 1 11' (H801257-05)

Chloride

mg/kg

Analyzed By: AC

Analyte Result Reporting Limit 320 16.0

Analyzed 05/08/2018 Method Blank ND

BS 432 % Recovery 108

True Value QC 400

RPD

Qualifier 0.00

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Page 4 of 6



Notes and Definitions

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Company Name:	ABACKA											9//	B/LL TO					ANALYSIS	Ź	Sis	E E	É	REQUEST	7				
Project Manager:	Bruce BAKEr								P.O. #:	*				Н	\dashv	_		٦	┪	_	\dashv		\dashv	\Box	\dashv	\dashv		
Address:				ĺ	ĺ	ĺ			9	pa	Company:																	
city: Hobbs	5 State: WM Zip: 88240	Zip:	00	00	47	0			Attn:																			
Phone #:	Fax #:							_	d	Address:	(i)																	
Project #:	Project Owner:	1.7							City:																			
Project Name:								10	State:	9			Zip:	_														
Project Location:	EBDU 28							_	ř	Phone #:	推				-1	_												
Sampler Name:	Bruce BAKEr							_	Fax #:	#					DI	_												
FOR LABUSE DALY		·.		4	-	MATRIX		-	H	滿	PRESERV	?	SAMPLING	_	7/		X											_
Lab I.D.	Sample I.D.	G)RAB OR (C)OMP	CONTAINERS	ROUNDWATER	ASTEWATER	OIL	NL 	LUDGE	THER:	CID/BASE:	E/COOL	THER:		CI -	***		BIE											
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2	SP 1 21	Ð	1			5	[_			_	1		5-7-18 10:15 AM	Ŷ.	<u>\</u>		/											
(V)	SP 1 3'	<u>(1)</u>	Z			1		_			<u> </u>	<u> </u>	5-7-18 10:3044	*									-					
4	101 105		_		_	1	[_			5		5-7-18 12:00pm	× •/	`										-	-		
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PLEASE NOTE: Liability and D	PLEASE NOTE: LIAMPy and Damagons, Cardinar's lability and cleant's exclusive remody for any claim arteins whether beaut in contract or fort shall be limited to the amount need by the resort for the	of claim		<u> </u>	₹	ğ		<u>.</u>	<u> </u>	<u> </u>	8		the amount paid by the clien	u for the		⊩	L		H	L	\vdash				\vdash	\vdash	1	<u></u>
The state of the latest and the state of the		-	-	Section 2	į			5			2	2		THE PART OF														

projected

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

13.4%

CHECKED BY: (Initials) 40.#75

Relinquished By:

Bruce Buhn

Time: 26pm Date: Time:

Received By:

Date: 7-18

Phone Result: Yes No REMARKS:

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

Email Results

eralyzes. All chims including those for negligence and any other cause whethoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without inntation, business interruptions, loss of use, or loss of profits incurred by clent. Its subsistances, affairles or successors intaling out of or related to the partyrements of services hereunder by Cardinal, appuratures of whether such cleam is based upon any of the above strated respons or otherwise.

Relinquished By:



June 12, 2018

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EBDU 28

Enclosed are the results of analyses for samples received by the laboratory on 05/09/18 15:22.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg L. 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

Received: Reported: 05/09/2018

06/12/2018

Project Name: Project Number: **EBDU 28** NONE GIVEN

85.7%

77.6%

41-142

37.6-147

Sampling Date:

05/08/2018

Sampling Type:

Soil

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

Project Location:

NOT GIVEN

Sample ID: SP 2 @ SURFACE (H801291-01)

oluene*	mg/	/kg	Analyze	d By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie	
Benzene*	<0.050	0.050	05/10/2018	ND	1.70	85.0	2.00	2.95		
Toluene*	<0.050	0.050	05/10/2018	ND	1.82	90.9	2.00	1.62		
Ethylbenzene*	<0.050	0.050	05/10/2018	ND	1.83	91.5	2.00	1.51		
Total Xylenes*	<0.150	0.150	05/10/2018	ND	5.65	94.1	6.00	1.21		
Total BTEX	<0.300	0.300	05/10/2018	ND						
Surrogate: 4-Bromofluorobenzene (PIC	103	% 72-148	?							
Chloride, SM4500CI-8	mg/	/kg	Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie	
Chloride	6260	16.0	05/11/2018	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	Qualifie	
GRO C6-C10*	<10.0	10.0	05/10/2018	ND	183	91.6	200	3.79		
DRO >C10-C28*	<10.0	10.0	05/10/2018	ND	194	96.9	200	4.28		
EXT DRO >C28-C36	<10.0	10.0	05/10/2018	ND						

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Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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

rax

Received: Reported: 05/09/2018

Reported. Project No. 06/12/2018 EBDU 28

Project Name: Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

05/08/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 2 @ 4' (H801291-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	352	16.0	05/11/2018	ND	432	108	400	0.00	
Sample ID: SP 2 @ 5' (H80	1291-03)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	736	16.0	05/11/2018	ND	432	108	400	0.00	
Sample ID: SP 2 @ 6' (H80 Chloride, SM4500CI-8	-	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chioride	128	16.0	05/11/2018	ND	432	108	400	0.00	
Sample ID: SP 2 @ 10' (H8	301291-05)								
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	80.0	16.0	05/11/2018	ND	432	108	400	0.00	
Sample ID: SP 2 @ 11' (H&	-	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie

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Colony L. Kinne -



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

Fax To:

(575) 393-2432

Received:

05/09/2018

06/12/2018

Reported: Project Name:

EBDU 28

Project Number: Project Location:

NONE GIVEN

Sampling Date:

05/08/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 3 @ 1' (H801291-07)

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	05/10/2018	ND	1.70	85.0	2.00	2.95	
Toluene*	<0.050	0.050	05/10/2018	ND	1.82	90.9	2.00	1.62	
Ethylbenzene*	<0.050	0.050	05/10/2018	ND	1.83	91.5	2.00	1.51	
Total Xylenes*	<0.150	0.150	05/10/2018	ND	5.65	94.1	6.00	1.21	
Total BTEX	<0.300	0.300	05/10/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	103	% 72-148	}						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	05/11/2018	ND	432	108	400	0.00	
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	05/10/2018	ND	183	91.6	200	3.79	
DRO >C10-C28*	<10.0	10.0	05/10/2018	ND	194	96.9	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	05/10/2018	ND					
Surrogate: 1-Chlorooctane	87.1	% 41-142	!						
Surrogate: 1-Chlorooctadecane	79.6	% 37.6-14	7						

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Colory L. Hanne



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: Reported: 05/09/2018 06/12/2018

Project Number: Project Location:

Project Name:

EBDU 28 NONE GIVEN

NOT GIVEN

Sampling Date:

Sample Received By:

05/08/2018

Sampling Type:

Sampling Condition:

Cool & Intact

Jodi Henson

Soil

Sample ID: SP 3 @ 3' (H801291-08)

Chloride, SM4500CI-B

Chloride

Chloride

mg/kg

Analyzed By: AC

Analyte

Result 32.0

Reporting Limit 16.0

Reporting Limit

16.0

Analyzed 05/11/2018

05/11/2018

Method Blank ND

ND

BS

% Recovery

True Value QC

RPD Qualifier

432 108 400 0.00

Sample ID: SP 3 @ 4' (H801291-09)

Chloride, SM4500CI-B

Analyte

mg/kg

Result

224

Analyzed By: AC

Analyzed Method Blank

BS 432

% Recovery 108

True Value QC 400 0.00

RPD Qualifier

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Celey D. Keene, Lab Director/Quality Manager

Page 5 of 17



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

Fax To:

(575) 393-2432

Analyzed By: MS

Received: Reported:

05/09/2018

06/12/2018

Project Name: Project Number: EBDU 28 NONE GIVEN Sampling Date:

05/08/2018

Sampling Type:

Soil

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

Project Location:

NOT GIVEN

Sample ID: SP 4 @ SURFACE (H801291-10)

	_	
BTEX 8021B		mg/kg

DIEX GOLLD	mg,	~9		a by: 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2018	ND	1.70	85.0	2.00	2.95	
Toluene*	<0.050	0.050	05/10/2018	ND	1.82	90.9	2.00	1.62	
Ethylbenzene*	<0.050	0.050	05/10/2018	ND	1.83	91.5	2.00	1.51	
Total Xylenes*	<0.150	0.150	05/10/2018	ND	5.65	94.1	6.00	1.21	
Total BTEX	<0.300	0.300	05/10/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103	% 72-148							
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC				<u></u>	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/11/2018	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	05/10/2018	ND	183	91.6	200	3.79	
DRO >C10-C28*	<10.0	10.0	05/10/2018	ND	194	96.9	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	05/10/2018	ND					
Surrogate: 1-Chlorooctane	88.7	% 41-142							
Surrogate: 1-Chlorooctadecane	83.0	% 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

Page 6 of 17



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:

05/09/2018

Reported:

06/12/2018

Project Name: Project Number: **EBDU 28** NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

05/08/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 4 @ 1' (H801291-11)

Chloride, SM4500CI-B

mg/kg

mg/kg

Analyzed By: AC

Analyte

Result

Reporting Limit

Method Blank

BS

% Recovery

True Value QC

Qualifier

RPD

0.00

Analyzed Chloride 304 16.0 05/11/2018 ND 432 108 400

Sample ID: SP 4 @ 2' (H801291-12)

Chloride, SM4500CI-B

Analyte

Reporting Limit

Analyzed By: AC

Analyzed

Method Blank

BS % Recovery True Value QC

Qualifier

Chloride

<16.0

Result

16.0

05/11/2018

ND

432

108

400

RPD 0.00

Cardinal Laboratories

*=Accredited Analyte

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Colog L. tresas

Celey D. Keene, Lab Director/Quality Manager

Page 7 of 17



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

Fax To:

(575) 393-2432

Received: Reported: 05/09/2018 06/12/2018

Project Name: Project Number: **EBDU 28** NONE GIVEN Sampling Date:

05/09/2018

Sampling Type:

Soil

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

Project Location:

NOT GIVEN

Sample ID: SP 5 @ SURFACE (H801291-13)

FΥ	8021B	mo

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2018	ND	1.70	85.0	2.00	2.95	
Toluene*	<0.050	0.050	05/10/2018	ND	1.82	90.9	2.00	1.62	
Ethylbenzene*	<0.050	0.050	05/10/2018	ND	1.83	91.5	2.00	1.51	
Total Xylenes*	< 0.150	0.150	05/10/2018	ND	5.65	94.1	6.00	1.21	
Total BTEX	<0.300	0.300	05/10/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	99.1	% 72-148	3						
Chloride, SM4500CI-8	mg,	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	81600	16.0	05/11/2018	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	05/10/2018	ND	183	91.6	200	3.79	
DRO >C10-C28*	63.8	10.0	05/10/2018	ND	194	96.9	200	4.28	
EXT DRO >C28-C36	17.2	10.0	05/10/2018	ND					
Surrogate 1-Chlorooctane	78.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	77.4	% 37.6-14	7						

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

Colony L. treams



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:

o: (5

(575) 393-2432

Received: Reported: 05/09/2018

06/12/2018

Project Name: Project Number: Project Location: EBDU 28 NONE GIVEN

NOT GIVEN

Sampling Date:

05/09/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By: Jodi

Jodi Henson

Sample ID: SP 5 @ 1' (H801291-14)

Chloride,	SM4500CI	-8

mg/kg

Analyzed By: AC

Analyte

Chloride

Result

Reporting Limit 16.0

05/11/2018

Analyzed

Method Blank ND BS 432 % Recovery 108

108

True Value QC 400

400

Qualifier

0.00

RPD

Sample ID: SP 5 @ 2' (H801291-15)

4500CI-B

mg/kg

Analyzed By: AC

Analyte Result Reporting Limit

Chloride 16.0 16.0

Analyzed 05/11/2018

Method Blank ND BS 432

% Recovery True Value QC

RPD

0.00

Qualifier

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Celey D. Keene, Lab Director/Quality Manager

Page 9 of 17



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

Fax To:

(575) 393-2432

Received:

05/09/2018

Reported: Project Name: 06/12/2018 EBDU 28

Project Number: Project Location:

NONE GIVEN NOT GIVEN Sampling Date:

05/09/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By: Jodi Henson

Sample ID: SP 6 @ SURFACE (H801291-16)

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	05/10/2018	ND	1.70	85.0	2.00	2.95	
Toluene*	<0.050	0.050	05/10/2018	ND	1.82	90.9	2.00	1.62	
Ethylbenzene*	<0.050	0.050	05/10/2018	ND	1.83	91.5	2.00	1.51	
Total Xylenes*	<0.150	0.150	05/10/2018	ND	5.65	94.1	6.00	1.21	
Total BTEX	<0.300	0.300	05/10/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	100	% 72-148	}						
Chloride, SM4500CI-B	mg/	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	39200	16.0	05/11/2018	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	05/10/2018	ND	183	91.6	200	3.79	
DRO >C10-C28*	63.8	10.0	05/10/2018	ND	194	96.9	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	05/10/2018	ND					
Surrogate: 1-Chlorooctane	76.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	73.5	% 37.6-14	7						

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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:

05/09/2018

Reported:

06/12/2018 **EBDU 28**

Project Name: Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

05/09/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 6 @ 1' (H801291-17)

cnionae,	3M430UCI-	

mg/kg

Analyzed By: AC

Analyte

Chloride

Chloride

Result 48.0

Reporting Limit 16.0

Analyzed 05/11/2018 Method Blank ND

Method Blank

ND

BS 432 % Recovery 108

True Value QC 400

Qualifier

0.00

RPD

Sample ID: SP 6 @ 2' (H801291-18)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyte Result 32.0 Reporting Limit Analyzed 16.0

05/11/2018

BS 432 % Recovery 108

True Value QC 400

RPD Qualifier

0.00

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Celey D. Keene, Lab Director/Quality Manager

Page 11 of 17



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

Fax To:

(575) 393-2432

Received:

05/09/2018

Reported:

06/12/2018

Project Name: Project Number: **EBDU 28** NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

05/09/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 7 @ 2' (H801291-19)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8\$	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2018	ND	1.70	85.0	2.00	2.95	
Toluene*	<0.050	0.050	05/10/2018	ND	1.82	90.9	2.00	1.62	
Ethylbenzene*	<0.050	0.050	05/10/2018	ND	1.83	91.5	2.00	1.51	
Total Xylenes*	<0.150	0.150	05/10/2018	ND	5.65	94.1	6.00	1.21	
Total BTEX	<0.300	0.300	05/10/2018	ND					
Surrogate: 4-Bromosluorobenzene (PIE	100	% 72-148							
Chloride, SM4500CI-8	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	05/11/2018	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: M\$					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2018	ND	183	91.6	200	3.79	
DRO >C10-C28*	<10.0	10.0	05/10/2018	ND	194	96.9	200	4.28	
EXT DRO >C28-C36	< 10.0	10.0	05/10/2018	ND					
Surrogate: 1-Chlorooctane	77.3	% 41-142							
Surrogate: 1-Chlorooctadecane	68.7	% 37.6-14	7						

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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:

05/09/2018

Reported:

06/12/2018 **EBDU 28**

Project Name: Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

05/09/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 7 @ 3' (H801291-20)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyte

Analyte

Analyte

Reporting Limit Result

Method Blank Analyzed

% Recovery

True Value QC 400

Qualifier

Chloride

400

16.0 05/11/2018 ND

BS 432

108

RPD 0.00

Sample ID: SP 7 @ 4' (H801291-21)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Method Blank

BS % Recovery True Value QC

RPD Qualifier

Chloride

Result 160

16.0 05/11/2018 ND

432

108

400

0.00

Sample ID: SP 7 @ 5' (H801291-22)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyzed

Method Blank

BS % Recovery True Value QC

RPD

Qualifier

Chloride

Result 32.0 Reporting Limit 16.0

Reporting Limit

05/11/2018

Analyzed

ND

432

108

400

0.00

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

5-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's. QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values. QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery. ND Analyte NOT DETECTED at or above the reporting limit RPD Relative Percent Difference Samples not received at proper temperature of 6°C or below. Insufficient time to reach temperature. Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Company Name:	HOAChe		BILL TO		ANALYSIS REQUEST
Project Manager:	Bruce BAKER		P.O. #:		
Address:			Company:		
city: Hobbs	State: NM	Zip: 88240	Attn:		
Phone #:	Fax#:		Address:		
Project #:	Project Owner	n	City:		
Project Name:			State: Zip:		
Project Location:	E80W 28		Phone #:		
Sampler Name:	Bruce BAKer		Fax #:		
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING		
		ERS ATER		TPH X	
H801291	Sample I.D.	G)RAB OR CONTAINI GROUNDW. WASTEWAT SOIL DIL SLUDGE	OTHER: ACID/BASE: CE/COOL OTHER:	CI- Ext. BTE	
_	SP 2 Surface	6 1 1	5-8-18 9	9:00AM 1/ /	
2	SP 2 @4'	6 7	1/1 5-8-18 9	9:3cam /	
(A)	SP 2 @ 5'	6 /	1 5-8-18 10	10:02 Am	
4	SP 2 @6'	6 1/	€ 81-8-5 1/2	D.C.SAM	
(১	SP 2 @ 10'	6 1/	V 5-8-18 15	NO SCHOOL Y	
6	SP 2 @ 11'	6 1/	1 8-8-8 11	IL-CSAM V	
	5P 3 @ 1'	2	5-8-18 3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	SP 3@ 3'	5	V 5-8-18 12:15m	15m	
5	SP 3@ 4'	7	V 5-8-18 12:22pm	280m Y	
9	:				
PLEASE NOTE: Liability and Do analyses. All claims including the control of the c	PLEASE MOTTE: Libibily and Demages, Confinal's liability and clients exclusive remedy for my claim arising whether based in contract or or, shall be furtied to the amount paid by the client for the arising state of the confine the confine of the confine or of the confine of t	iny claim arising whether based in contro deemed waived unless made in writing a	ract or lort, shall be firnled to the amount paid by the cite and received by Cardinal within 30 days after completion for loss of two fit in a critical for the first fit is suit.	ne client for the pletion of the applicable	

Sample Condition
Cool Intact
Tes Tes
No No

Delivered By: (Circle One)

Sampley- UPS - Bus - Other: 4.86/4.75

.Time:

Relinquished By:

Buce Behr

Date:
S-9-18
Time:
3 22 pm
Date:

ed upon any of the above stated reasons or otherwise.

Phone Result:
Fax Result:
REMARKS:

☐ Yes ☐ No Add'I Phone #:

email Results

Received By:

Relinquished By:

⁺ Cardinal rannot arrent vertal channes. Blease for written channes to (575) 182,2455



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

Company Name:	ADACHE		B/LL TO	ANALYSIS REQUEST
Project Manager:	Bruce BAKEr		P.O. #:	
Address:	1		Company:	
city: Hobbs		State: NM Zip: 88340	Attn:	
Phone #:	Fax #:		Address:	
Project #:	Project Owner:	7	City:	
Project Name:			State: Zip:	
Project Location:	EBOU 28		*	
Sampler Name:	Bruce BAKer		Fax #:	4
FOR LAB USE ONLY		MATRIX	PRESERV SAMPLING	1
Lab I.D. ∦8⁄274 I	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER: DATE	CIT Ext. TPH BTEX
0/	SP 4 Sw-face		1818-5 /	V V V
~	SP 4 @ 11		5-8-18 1:07pm	
2	SP 4 @ 2'	7	V 5-8-18 175 DM	
-	SP 5 Sunface	ら - -	W+30:18 81-5-5	
; hi	SP 5 @1'	6)	MASI: 8 8-9-8	
15	SP 5 @ 2'	٠ - -	- 1	
2 91	SP 6 Surface	٠ - - -	1	
	6	C -	_	
188	SP 6 @2'	C -	_ I	
		100		
PLEASE NOTE: Liability and (analyses, All claims including t	PLEASE NOTE: Leading and Damages. Cerdinat's leading and client's exclusive remany for any cleim existing whether based in contract or for, shall be limited to the amount paid by the client for the analyses. All claims including those for nepfigence and any other cause whatbeaver shall be deemed waterd unless made in withing and near-and by Cardinal within 30 days after completion of the appointment.	ary dain ensing whether based in contract deemed waived unless made in writing an	or torr, shall be limited to the amount peld by the clent to received by Cardinal within 30 days after completion of	Y Dig

sorvice. In no event shall Cardinal be liable for incidental or core

efflane or successors which out of or released to the pr Relinquished By: Delivered By: (Circle One) 38.4 Date: Time: Received By: Sample Condition
Cool Intact
Yes Pres be divas, or bas of profits incurred by clent, its subsidiaries.

Seed upon arm of the above stated nasces or otherwise.

Phone Result:

Fax Result:

REMARKS: □ Yes

Buch Bahar.
Relinquished By:

Sampley - UPS - Bus - Other:

+ Cardinal rannot arrent verhal rhannee Bleace fav written rhannes to 18751 202-1978

8 8

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

(B)



W

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

Company Name: Apacke		BILL TO	ANALYSIS REQUEST
Project Manager: Bruce BAKer		P.O.#	
Address:		Company:	
City: Hobbs State: NM	Zip: 88240	Attn:	
Phone #: Fax #:		Address:	
Project #: Project Owner:	er:	City:	
Project Name:		State: Zip:	
Project Location: EBDU 28		Phone #:	
	100 85	Fax #:	
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	
	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER: DA	CITEXTPH
19 Sp # 7@ 21	_	~	
50	6 -	N 5-9-18 11:57.40	7
1 30 7 QV	6 -	V 5-9-18 12:00 pm	<u> </u>
12 SP 7@5'	-	5-9-18 12:05 pa	*
PLEASE NOTE: Libitity and Demogre. Condinat's leability and cleant's exclusive remark for any cleam actiong whether based in contract or lock, shall be firmled to the emount paid by the cleant to the emount paid by the cleant to the early other cause whatboover shall be deemed welved to have and included in contract or locked by Carolina within 30 days after completion of the ex	r any claim adsing whether based in contract a deemed waived unless made in writing and	or lod, shall be fimited to the amount paid by the client to	Cient for the

Sample - UPS - Bus - Other:

Delivered By: (Circle One) 4.80/4.750

Sample Condition
Cool Intact
Cool Intact
Ves
No No

Time:

service. In no event shall Cardinal be labble for incidental or consequental damages, including without similation, business interruptions, bas of use, or loss of profits incurred by clemt, its subuidantes, efficiency expectation of whether such claim is based upon any of the above sured regions or otherwise.

Relinquished By:

Phone Result

Date: 9-18

S based upon any of the above stand random or otherwise.

Phone Result:

Fax Result:

REMARKS:

☐ Yes ☐ No

Time: 36pm MMl
3: 36pm Beceived By:

Relinquished By: #15

Bruce Bahar