

### Closure Report

January 15, 2020

Re: EBDU 55

API# 30-025-06568 Case # 1RP-5314

On 12/09/18 a release occurred due to an injection line failure resulting in the loss of produced water. An initial C-141 was submitted an approved by NMOCD on 2/2/19. The EBDU 55 (GPS Coordinates 32.48433 -103.12243) is located east of Eunice New Mexico in unit letter D section 13 township 21S range 37E. A groundwater survey was conducted utilizing data from NMOSE and USGS web sites. The average depth of groundwater is 59 feet below ground surface. On 9/20/2019 Apache Corporation drilled a monitor well associated with EBDU 37 (1RP-5636) release which is located south of the EBDU 55 release. The gauged water depth of the well was 57 feet below ground surface verifying depth of groundwater greater than 50 feet.

Apache Corporation excavated the well pad area south of the release source to a depth of 1 foot below ground surface. Final 5 point wall and bottom composite samples were collected not to exceed 200 square feet and submitted to a commercial laboratory for analysis of chloride, TPH, and BETEX. Laboratory analysis were all below table one closure criteria for releases 51-100 feet to groundwater. All excavated material (520 cubic yards) was hauled to a NMOCD approved disposal facility. The excavation was backfilled with clean imported caliche.

Apache Corporation has completed remediation activities in accordance with NMOCD closure criteria and respectfully request closure for 1RP-5314.

Enclosed: C-141, Groundwater Data, Map, Sample Data, Laboratory Analysis, and Photos.

Submitted by;

Environmental Technician

larry.baker@apachecorp.com

Cell# 432-631-6982

Bruce Baker

Off# 575-393-7106

District 1
1625 N French Dr., Hobbs, NM 88240
District II
811 S First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

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

Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NCH1903357465
District RP	1RP-5314
Facility ID	
Application ID	pCH1903357646

### **Release Notification**

		Resp	onsible Part	y
Responsible Party	Apache Corporation	n	OGRID	873
Contact Name	Bruce Baker		Contact T	
Contact email	larry.baker@apac	hecorp.com	Incident #	NCH1903357465 EBDU 55 @
Contact mailing addr	ess 2350 W. Maria	nd BLVD Hobbs	s, NM 88240	30-025-06568
			of Release S	ource
Latitude	32.48433		Longitude	-103.12243
		(NAD 83 in dec	cimal degrees to 5 decir	
Site Name	EBDU 55	·	Site Type	Injection well
Date Release Discove	red 12/09/	18	API# (ıf apı	
Unit Letter   Section	n Township	Range	Cour	
D 13	218	37E	Le	
Surface Owner: SI	ate Federal Tr	ibal ☑ Private (A		unin Properties. LLP
Ma	terial(s) Released (Select al	l that apply and attach	calculations or specific	justification for the volumes provided below)
Crude Oil	Volume Release	d (bbls)		Volume Recovered (bbls)
Produced Water	Volume Release	d (bbls) 533 ba	arrels	Volume Recovered (bbls) 360 barrels
Is the concentration of dissolved chloride produced water >10,000 mg/l?			hloride in the	☐ Yes ☐ No
Condensate Volume Released (bbls)			Volume Recovered (bbls)	
□ Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)	
Other (describe) Volume/Weight Released (provide units)		units)	Volume/Weight Recovered (provide units)	
Cause of Release A	n injection line fa	iled resulting i	in release of p	roduced water

# State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major	ICUPE Constitution (C)
release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC?	Greater than 25 barrels of fluid loss.
The The	The state of the s
☑ Yes ☐ No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Bruce Baker notified	d Olivia Yu, Christina Hernandez and Jim Griswold via email on 12/10/18 at 12:03 pm
	Initial Response
The responsible	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
The source of the rela	ease has been stopped.
The impacted area ha	s been secured to protect human health and the environment.
Beleased materials ha	we been contained via the use of berms or dikes, absorbent pads, or other containment devices.
	ecoverable materials have been removed and managed appropriately.
If all the actions described	d above have not been undertaken, explain why:
	aturally contained due to the construction of the lease road.
Per 19.15.29.8 B. (4) NM	AC the responsible party may commence remediation immediately after discovery of a release. If remediation
within a lined containmen	a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
·	
regulations all operators are	mation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger
public nealin of the environm	nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their growtings have.
i lailed to adequately investiga	the and remediate contamination that pose a threat to groundwater, surface water, human bealth or the environment. In
and/or regulations.	a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name: Bruc	ce Baker Title: Environmental Tech SR.
	A /
Signature: Bruce	Date: 12-19-18
email: 1arry, ba	Ker Papachecorp.com Telephone: 432-631-6982
-	
OCD Only REC	EIVED
Received by: By CH	lernandez at 3:55 pm, Feb 02, 2019

# Received by OCD: 1/17/2020 10:33:08 AM

### Volume Calculation

2,610 cubic feet X 7.48 gallons per cubic foot=22,132 gallons/42 gallons to a barrel= 526 barrels multiplied by .33 soil porosity = 173 barrels + 360 recovered = 533 barrels

### Remediation Activities

To date the release area the wet area has been scraped and placed on plastic for disposal.

# 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?	<b>59</b> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes 🗹 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes 🗹 No
Are the lateral extents of the release overlying a subsurface mine?	Yes Yo
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes 🗹 No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes 🗹 No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes 🗹 No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ve contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	rtical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	

Characterization Report Checklist: Each of the following items must be included in the report.
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.  Field data  Data table of soil contaminant concentration data  Depth to water determination  Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release  Boring or excavation logs
Data table of soil contaminant concentration data
Depth to water determination  Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
Boring or excavation logs  Photographs including date and GIS information
Topographic/Aerial maps
Laboratory data including chain of custody

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

Page 4

## State of New Mexico Oil Conservation Division

Incident ID	
District RP	_
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Bruce Baker Title: Environmental Tech SR.

Signature: Power Baker apachecorp.com Telephone: 432 - 631 - 6982

OCD Only

Received by: Date:



Received by OCD: 1/17/2020 10:33:08 AM

# State of New Mexico Oil Conservation Division

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

Incident ID	
District RP	
Facility ID	
Application ID	

### Closure

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

A scaled site and sampling diagram as described in 19.15.29	0.11 NMAC
Photographs of the remediated site prior to backfill or photomust be notified 2 days prior to liner inspection)	os of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate OE	OC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certs may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of	elations. The responsible party acknowledges they must substantially conditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.
email: larry, baker eapachecorp. com	Telephone: 432 - 631 - 6982
OCD Only	· · · · · · · · · · · · · · · · · · ·
Received by:	Date:
Closure approval by the OCD does not relieve the responsible part remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and	y of liability should their operations have failed to adequately investigate and e water, human health, or the environment nor does not relieve the responsible d/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:



# Received by OCD: 1/17/2020 10:33:08 AM

### Baker, Larry

From:

Rachel Owen <rowen@laenvironmental.com>

Sent:

Thursday, January 09, 2020 4:16 PM

To:

Baker, Larry

**Subject:** 

[EXTERNAL] EBDU #37 Information

Hello Bruce,

I checked our data for TMW-2 and we gauged it at approximately 55 feet bgs when it was first installed. During the last water sampling event in 12/26/19, the well was gauged at 57.50 feet bgs. The gps coordinates to the well are 32°28'50.86"N, 103° 7'17.26"W. Please let me know if there is anything that need.

Thank you,

Rachel

WARNING EXTERNAL EMAIL: This email is from an external source. Do not click links or open attachments without positive sender verification of purpose. Never enter Username, Password or sensitive information on linked pages from this email. If you are unsure about the message, please contact the Apache IT ServiceDesk for assistance.

			BORING	RECORD			
		Start: 15:02	NO NO	907	Surface Elevation: 3,563.50 TOC Elecation: 3,566,23'		REMARKS
GEOLOGIC	DEPTH	Finish: 15:55	DESCRIPTION USCS	C [		~~~	BACKGROUND
UNIT		DESCRIPTION LITHOLOGIC	SCR US	GRAPHIC	Riser		PID READING
		DESCRIPTION ETHOLOGIC	DEX	S	Bentonite	NUMBER RECOVERY DEPTH	SOIL PPM
	0 —	Silty Clay, 10YR, 5/6, Ash	CL				15:02
	-	Brown, Dry	<del></del>	والألفاف			-
		Caliche, 7.5YR, 8/2, Pinkish					-
	5 _	White, Sandy to Moderate					15:03
	-	Very Fine Grained Quartz Sand	Caliche				-
		Cand	Callone	1			
							45.05
	10_						15:05
	1						
	-	Silty Sand, 7.5YR, 7/2,					-
	15_	Pinkish Gray, Very Fine Grained Quartz Sand, Poorly				$\perp \perp$	15:10
	-	Sorted, Dry		4 12			-
		•	SM	100			_
						}	45.45
	20					++	15:15
	7	Sand, 5YR, 6/0, Reddish			Sodium		_
	-	Yellow, Very Fine Grained			Bentonite		-
	25_	Quartz Sand, Poorly Sorted,		- 7.5			15:17 <u> </u>
		Dry		11,20			] _
				e i ve i Norman e ve in			-
	]						
	30		CIAL			+	15:22
			SW				
	$\vdash$			1			_
	35			2 - 31			15:23
Ì	4			11/20			
	$\dashv$			1 16 1			
				4			_
	40	Sand, 5YR, 6/6, Reddish		3.			15:28
		Yellow, Moderate Well					_
		Cemented, Poorly Sorted, Dry		2.5			]
	45_	•		3. C. C.			15:30
	"		sw	1.	45.5		
	$\dashv$		•••		47.5		_
	]				Graded Silica		_
		*Continue*	<u> </u>		Sand Sand	Corp. / f	10 0112 40
		NETDATION TEST		OF BORING )			
		NETRATION TEST LABORATO			HOLE DIAMETER : 5"		
	DISTURBED ATER TABLE	(		LOCATION : EBDU #37  LAI GEOLOGIST : M. Larson			,
1 .		DRILL DATE:		NUMBER :	DRILLING CONTRACTOR		SDC
Aarson & In Sacciates, In Environmental Consulta	ic.	9-20-2019	TMV		DRILLING CONTRACTOR  DRILLING METHOD : Air		
CONTRACTOR CONSUME	*43				DIVILLIAO IVIL ITIOD AII	. 151013	

			BORING	RÉCORD			
		Start: 15:02	1		Surface Elevation: 3,563.50' TOC Elecation: 3,566.23'		REMARKS
05010010	DE03.	Finish: 15:55	DESCRIPTION USCS	GRAPHIC LOG		<u> </u> ≿	BACKGROUND
GEOLOGIC UNIT	DEPTH		CRIPT	\)	ER	害	PID READING
""		DESCRIPTION LITHOLOGIC	SES	\ \ <u>\</u>	*Continue*	RECO	801PPM
	50	*Continue*		ပ	2000 1000a		
	-	Continue		1,			_
	_					Ш	
					Graded		_
			8		Silica Sand		
	55 —	Silty and Clayey Below 50',		0.0.12			
1		Moist at 55'	-	扫打钩			
	60 —				2" Sch. 40		Ι Τ
					PVC Threaded		
			4		0.0.0" Slotted		
			SM-SC		Screw		7
[	65						
	65 —						-
							$\vdash$
			-		67.85 Cap	<u> </u>	
			İ				$\vdash$
	·						
	70 —						-
	$\dashv$			$\ \cdot\ _1$			$\vdash$
	$\dashv$						
	$\dashv$					$  \   \  $	-
<u> </u>	75						-
1	-	Gravel, 7.5YR, 4/3, Light	Ì				
	$\dashv$	Brown, Poorly Sorted,	0144	5			-
	$\dashv$	Round, Red Bed	GW	78-7			
	$\dashv$	·	<u> </u>				
	80	TD: 79'			80.00	$  \   \  $	$\dashv$
	$\dashv$						
	$\dashv$						
	ᆜ						
	$\dashv$					$ \  \  $	
ON	E CONTINU	OUS AUGER SAMPLER — WATER TAI	BLE ( TIME (	OF BORING			
ST.	ANDARD PE	NETRATION TEST LABORATO			HOLE DIAMETER :	5'	
UNDISTURBED SAMPLE + PENETROME				ONS/ SQ. FT ) LOCATION : EBDU #37			
<u> </u>	TER TABLE	(24 HRS.) NR NO RECOVE	ERY		LAI GEOLOGIST : M. L.	<u>arson</u>	
Agrison & Inspection of the Consultant Consu	10	DRILL DATE:	BORING N		DRILLING CONTRACTOR :_		SDC
Environmental Consultar	nts.	9-20-2019	TMW	-2	DRILLING METHOD : Air R	otary	



## New Mexico Office of the State Engineer **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag

**POD Number** CP 01221 POD1

Q64 Q16 Q4 Sec Tws Rng 11 21S 37E X

3588506

676254

Driller License: 1711

**Driller Company: STRAUB CORPORATION** 

**Driller Name:** 

**MARTIN STRAUB** 

Drill Start Date: 11/07/2013

**Drill Finish Date:** 

11/07/2013

Plug Date:

Log File Date:

**PCW Rcv Date:** 

Source: **Shallow** 

**Pump Type:** 

12/09/2013

Pipe Discharge Size:

**Estimated Yield:** 

Casing Size:

4.00

Depth Well:

75 feet

Depth Water:

60 feet

Water Bearing Stratifications:

**Top Bottom Description** 

Sandstone/Gravel/Conglomerate

60 66

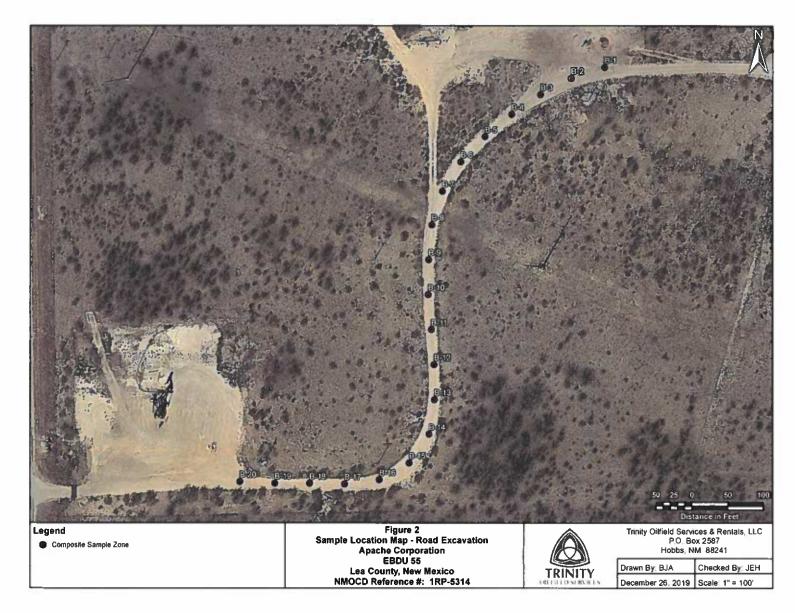
Sandstone/Gravel/Conglomerate

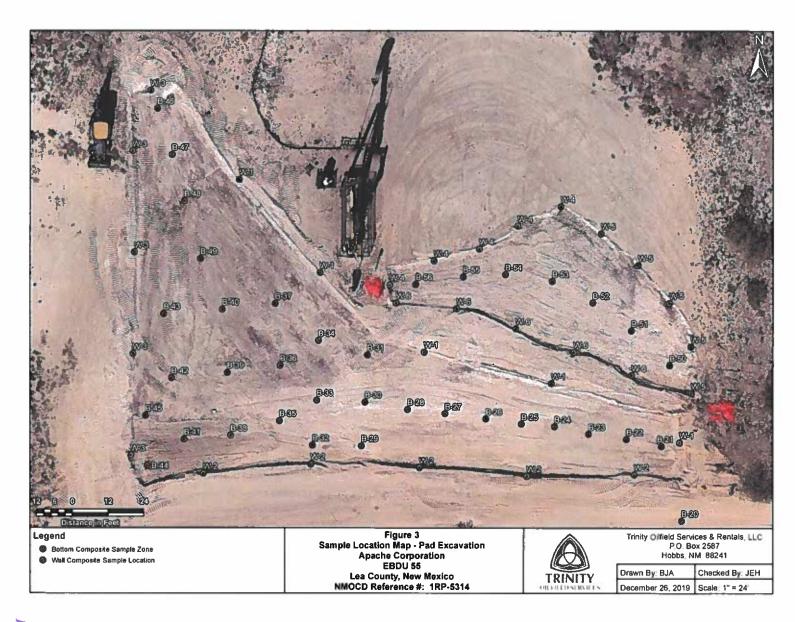
**Casing Perforations:** 

**Top Bottom** 

50

75





Surface 16 Surface 144 Surface 64 1' 176 1' 96 1' 96 1' 96 1' 48 1' 48 1' 48 1' 48 1' 48 1' 48 1' 48 1' 48 1' 32 1' 48 1' 32 1' 32 1' 32 1' 32 1' 32	<del>╎╎┤┤┼┼┼┼┼┼┼┼┼┼┼┼┼┼┼</del>	<0.050       <0.050         <0.050       <0.050         <0.050       <0.050         <0.050       <0.050         <0.050       <0.050         <0.050       <0.050         <0.050       <0.050         <0.050       <0.050         <0.050       <0.050         <0.050       <0.050         <0.050       <0.050         <0.050       <0.050         <0.050       <0.050         <0.050       <0.050         <0.050       <0.050         <0.050       <0.050         <0.050       <0.050         <0.050       <0.050	<0.050	<0.050         <0.050         <0.150           <0.050         <0.050         <0.150           <0.050         <0.050         <0.150           <0.050         <0.050         <0.150           <0.050         <0.050         <0.150           <0.050         <0.050         <0.150           <0.050         <0.050         <0.150           <0.050         <0.050         <0.150           <0.050         <0.050         <0.150           <0.050         <0.050         <0.150           <0.050         <0.050         <0.150           <0.050         <0.050         <0.150           <0.050         <0.050         <0.150           <0.050         <0.050         <0.150           <0.050         <0.050         <0.150           <0.050         <0.050         <0.150           <0.050         <0.050         <0.150           <0.050         <0.050         <0.150           <0.050         <0.050         <0.150           <0.050         <0.050         <0.150
Surface         16         <0.050           Surface         144         <0.050			<ul><li>40.300</li><li>40.300</li><li>40.300</li><li>40.300</li><li>40.300</li><li>40.300</li><li>40.300</li><li>40.300</li><li>40.300</li><li>40.300</li><li>40.300</li><li>40.300</li><li>40.300</li><li>40.300</li><li>40.300</li></ul>	
Surface         16         <0.050           Surface         144         <0.050	<0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	<0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150 <0.150		<ul> <li></li> <li></li> <li></li> <li></li> <li></li> <li></li></ul>
Surface         16         <0.050           Surface         144         <0.050	<0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050	<0.150 <0.150 <0.150 <0.150	<del>                                     </del>	<0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0.300 <0
Surface 16 <0.050	<0.050 <0.050 <0.050 <0.050	100		
<0.050 <0.050 <0.050 <0.050	<0.050		<0.150 <0.150 <0.150 <0.150	<0.150 <0.150 <0.150 <0.150 <0.150
Surface         80         <0.050           Surface         80         <0.050	<0.050 <0.050 <0.050 <0.050		<0.150 <0.150 <0.150 <0.150	<pre>&lt;0.150 &lt;0.300 </pre>
	<0.050 <0.050 <0.050			<0.150 <0.150 <0.150 <0.150
B-1 @ Surface       Surface       2720       <0.050	<0.050 <0.050 <0.050 <0.050			<0.150 <0.150 <0.150 <0.150

# NEDU Injection Line Complete List

B56	855	854	B53	B52	851	B50	849	848	847	B46	B45	844	B43	B42
11/4/2019	11/4/2019	11/4/2019	11/4/2019	11/4/2019	11/4/2019	11/4/2019	11/4/2019	11/4/2019	11/4/2019	11/4/2019	11/4/2019	11/4/2019	11/4/2019	11/4/2019
B-56 @ 1'	B-55 @ 1'	B-54 @ 1'	B-53 @ 1'	B-52 @ 1'	B-51 @ 1'	B-50 @ 1'	B-49 @ 1'	B-48 @ 1'	B-47 @ 1'	B-46 @ 1'	B-45 @ 1'	B-44 @ 1'	8-43 @ 1'	B-42 @ 1'
1'	1'	1'	1'	1'	1-	1	1	1'	1'	1	1'	1'	1'	1'
160	160	144	160	160	192	288	96	144	160	208	208	144	208	144
<0.050	<0.050	<0.050	<0.050	<0.050	< 0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<0.050	<0.050	<0.050	<0.050	< 0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
<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	14.1	<10.0	<10.0	<10.0	10.8	<10.0	11.9	11.9	<10.0	<10.0	<10.0

# NEDU Injection Line Complete List

Map ID	Sample Date	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenzene	Total Xvlenes	Total BTEX	GRO	DRO	EXT DRO
Wall Samples	les											
W1	11/4/2019	W-1@1	1'	192	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
W2	11/4/2019	W-2 @ 1	1'	192	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
W3	11/4/2019	W-3 @ 1	1'	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
W4	11/4/2019	W-4@1	1'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
W5	11/4/2019	W-5 @ 1'	1'	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
W6	11/4/2019	W-6@1'	1'	112	<0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0



November 05, 2019

**BRUCE BAKER** 

**APACHE CORP - HOBBS** 

2350 W. MARLAND BLVD.

HOBBS, NM 88240

**RE: EBDU #55** 

Enclosed are the results of analyses for samples received by the laboratory on 10/31/19 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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/qa/lab-accred-certif.html">www.tceq.texas.gov/field/qa/lab-accred-certif.html</a>.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



### Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: Project Name: 10/31/2019 11/05/2019 EBDU #55

Sampling Type: Sampling Condition: 10/31/2019

Soil

Sample Received By:

Sampling Date:

Cool & Intact Tamara Oldaker

Project Number: Project Location: NONE GIVEN EUNICE, NM

### Sample ID: B - 1 SURFACE (H903729-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/04/2019	ND	1.94	97.2	2.00	4.64	
Toluene*	<0.050	0.050	11/04/2019	ND	1.65	82.3	2.00	8.51	
Ethylbenzene*	<0.050	0.050	11/04/2019	ND	1.66	83.1	2.00	11.0	
Total Xylenes*	<0.150	0.150	11/04/2019	ND	5.37	89.4	6.00	5.15	
Total BTEX	<0.300	0.300	11/04/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	102	% 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	2720	16.0	11/05/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2019	ND	212	106	200	4.55	
DRO >C10-C28*	14.0	10.0	11/04/2019	ND	206	103	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	11/04/2019	ND					
Surrogate: 1-Chlorooctane	90.9	% 41-142	·						
Surrogate: I-Chlorooctadecane	91.7	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and chent's eviclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deamed 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 incidental or consequencial damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidianes, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratones.

College Latriana



### Analytical Results For:

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

Fax To:

Received: Reported:

10/31/2019 11/05/2019

Project Name:

Project Number: Project Location:

EBDU #55 NONE GIVEN EUNICE, NM

Sampling Date:

10/31/2019

Sampling Type:

Sample Received By:

Soil Sampling Condition:

Cool & Intact Tamara Oldaker

Sample ID: B - 2 SURFACE (H903729-02)

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	11/04/2019	ND	1.94	97.2	2.00	4.64	
Toluene*	<0.050	0.050	11/04/2019	ND	1.65	82.3	2.00	8.51	
Ethylbenzene*	<0.050	0.050	11/04/2019	ND	1.66	83.1	2.00	11.0	
Total Xylenes*	<0.150	0.150	11/04/2019	ND	5.37	89.4	6.00	5.15	
Total BTEX	<0.300	0.300	11/04/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE

103 %

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	368	16.0	11/05/2019	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2019	ND	212	106	200	4.55	
DRO >C10-C28*	<10.0	10.0	11/04/2019	ND	206	103	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	11/04/2019	ND					
Surrogate: 1-Chlorooctane	85.1	% 41-142							

Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane

82.3 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Uability and Damages. Cardinal's liability and client's exclusive remedy for any All claims, including those for negligence and PLEASE MUTE: Updaty and paragets. Catomass asserts and coerts excusive terreduct for modernal or consequencial damages, and other causes with the service shall be deamed waved unities made in writing and exceeded by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequencial damages, including, without ametation, business interruptions, loss of use, or loss of profits incrumed by client, its aubsidiances, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratones.

align time

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 24



### Analytical Results For:

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

Fax To:

10/31/2019

Reported:

Received:

11/05/2019 Project Name: EBDU #55 Project Number:

Project Location:

NONE GIVEN EUNICE, NM

Sampling Date:

10/31/2019 Soil

Sampling Type:

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

### Sample ID: B - 3 SURFACE (H903729-03)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2019	ND	1.94	97.2	2.00	4.64	
Toluene*	<0.050	0.050	11/04/2019	ND	1.65	82.3	2.00	8.51	
Ethylbenzene*	<0.050	0.050	11/04/2019	ND	1.66	83.1	2.00	11.0	
Total Xylenes*	<0.150	0.150	11/04/2019	ND	5.37	89.4	6.00	5.15	
Total BTEX	<0.300	0.300	11/04/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	103	% 73.3-12	9			9			
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
Chloride	1520	16.0	11/05/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2019	ND	212	106	200	4.55	
DRO >C10-C28*	<10.0	10.0	11/04/2019	ND	206	103	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	11/04/2019	ND					
Surrogate: 1-Chlorooctane	79.5	% 41-142							
Surrogate: 1-Chlorooctadecane	75,9	% 37.6-14	7						

### **Cardinal Laboratories**

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardwal's Bability and cheric's eviduality remedy for any claim ansing, whether based in contract or tort, shall be lamited to the amount paid by cleint for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in whong and received by Cardwal within thirty (30) days after completion of the applicable service. In no event shall Cardwal be liable for inoderital or consequential damages, including, without function, business interruptions, loss of use, or loss of profits incurred by cleint, its subsidiants, affiliates or successors arising out of or releted to the performance of the services hereunder by Cardwal, regardless of whether such claims 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 Cardwal Laborationes.

Colog I trans



### Analytical Results For:

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

Received: Reported: 10/31/2019

11/05/2019 EBDU #55

Project Name: Project Number: Project Location:

NONE GIVEN EUNICE, NM Sampling Date:

10/31/2019

Sampling Type:

Soil Cool & Intact

Sampling Condition: Sample Received By:

Tamara Oldaker

### Sample ID: B - 4 SURFACE (H903729-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method 8lank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2019	ND	1.94	97.2	2.00	4.64	
Toluene*	<0.050	0.050	11/04/2019	ND	1.65	82.3	2.00	8.51	
Ethylbenzene*	<0.050	0.050	11/04/2019	ND	1.66	83.1	2.00	11.0	
Total Xylenes*	<0.150	0.150	11/04/2019	ND	5.37	89.4	6.00	5.15	
Total BTEX	<0.300	0.300	11/04/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	11/05/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2019	ND	212	106	200	4.55	
DRO >C10-C28*	< 10.0	10.0	11/01/2019	ND	206	103	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND					
Surrogate: 1-Chlorooctane	83.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	91.4	% 37.6-14	7						

### Cardinal Laboratories \*=Accredited Analyte

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

Colog is trans



### Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

10/31/2019 11/05/2019 Sampling Date: Sampling Type: 10/31/2019

Soil

Reported: Project Name: **EBDU #55** 

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

EUNICE, NM

### Sample ID: B - 5 SURFACE (H903729-05)

BTEX 8021B	mg/	/kg	Anaiyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2019	ND	1.94	97.2	2.00	4.64	
Toluene*	<0.050	0.050	11/04/2019	ND	1.65	82.3	2.00	8.51	
Ethylbenzene*	<0.050	0.050	11/04/2019	ND	1.66	83.1	2.00	11.0	
Total Xylenes*	< 0.150	0.150	11/04/2019	ND	5.37	89.4	6.00	5.15	
Total BTEX	<0.300	0.300	11/04/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	99.4	% 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	224	16.0	11/05/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2019	ND	212	106	200	4.55	
DRO >C10-C28*	< 10.0	10.0	11/04/2019	ND	206	103	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	11/04/2019	ND					
Surrogate: 1-Chlorooctane	69.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	64.3	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE MOTE: Labskry and Camages. Cardinal's liability and client's exclusive remety for any claim arising, whether based in contract or tort, shall be lamted to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed warred unless made in whong and received by Cardinal thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for inoderical or consequenced 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 among 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 Liaboratories.

Colleg I trans

Celey D. Keene, Lab Director/Quality Manager

Page 6 of 24



### Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

10/31/2019

Reported:

11/05/2019 EBDU #55

Project Name: Project Number: Project Location:

NONE GIVEN EUNICE, NM

Sampling Date:

10/31/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

### Sample ID: B - 6 SURFACE (H903729-06)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/04/2019	ND	1.94	97.2	2.00	4.64	
Toluene*	<0.050	0.050	11/04/2019	ND	1.65	82.3	2.00	8.51	
Ethylbenzene*	<0.050	0.050	11/04/2019	ND	1.66	83.1	2.00	11.0	
Total Xylenes*	<0.150	0.150	11/04/2019	ND	5.37	89.4	6.00	5.15	
Total BTEX	<0.300	0.300	11/04/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	98.0	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/05/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2019	ND	212	106	200	4.55	
DRO >C10-C28*	<10.0	10.0	11/04/2019	ND	206	103	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	11/04/2019	ND					
Surrogate: 1-Chlorooctane	76.9	% 41-142							
Surrogate: 1-Chlorooctadecane	74.1	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Lisbidity and Damages. Cardinal's bability and cheric's eviduative remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in whong and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for inoderital or consequential damages, including, without limitation, business interruptions, loss of use, or loss of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratanes.

Colony 2 . trunn



### Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 10/31/2019 11/05/2019

Sampling Date: Sampling Type:

10/31/2019 Soil

Project Name:

EBDU #55 NONE GIVEN Sampling Condition:

Cool & Intact

Project Number: Project Location:

EUNICE, NM

Sample Received By:

Tamara Oldaker

### Sample ID: B - 7 SURFACE (H903729-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					<u> </u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2019	ND	1.94	97.2	2.00	4.64	
Toluene*	<0.050	0.050	11/04/2019	ND	1.65	82.3	2.00	8.51	
Ethylbenzene*	<0.050	0.050	11/04/2019	ND	1.66	83.1	2.00	11.0	
Total Xylenes*	<0.150	0.150	11/04/2019	ND	5.37	89.4	6.00	5.15	
Total BTEX	<0.300	0.300	11/04/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	100 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	32.0	16.0	11/05/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2019	ND	212	106	200	4.55	
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	206	103	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND					
Surrogate: 1-Chlorooctane	75.0	% 41-142	!						
Surrogate: 1-Chlorooctadecane	80.8	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

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

aling i trans

Celey D. Keene, Lab Director/Quality Manager

Page 8 of 24



### Analytical Results For:

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

Fax To:

Sampling Date:

10/31/2019

Sampling Type:

Soil

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

Project Name: Project Number:

Received:

Reported:

BTEX 8021B

EBDU #55 NONE GIVEN

10/31/2019

11/05/2019

Project Location:

EUNICE, NM

ma/ka

78.6 %

84.6%

41-142

37.6-147

Sample ID: B - 8 SURFACE (H903729-08)

DILX GOZIB	my/	Ny .	Allalyze	id by: M3					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2019	ND	1.94	97.2	2.00	4.64	
Toluene*	<0.050	0.050	11/04/2019	ND	1.65	82.3	2.00	8.51	
Ethylbenzene*	<0.050	0.050	11/04/2019	ND	1.66	83.1	2.00	11.0	
Total Xylenes*	<0.150	0.150	11/04/2019	ND	5.37	89.4	6.00	5.15	
Total BTEX	<0.300	0.300	11/04/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/05/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2019	ND	212	106	200	4.55	
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	206	103	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND					
						1			

Analyzed By: MS

### Cardinal Laboratories

Surrogate: 1-Chlorooctane

Surragate: 1-Chlorooctadecane

\*=Accredited Analyte

PLEASE NOTE: Liablety and Damages. Cardinal's liablety and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be hable for incidencial or consequencial dan including, without limitation, business interruptions, loss of use, or loss of profits incurred by Cardinal, regardless of whether

adag i trans



### Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 10/31/2019 11/05/2019

EBDU #55

Project Number: Project Location:

Project Name:

NONE GIVEN EUNICE, NM

Sampling Date:

10/31/2019

Sampling Type: Sampling Condition:

Soil

Sample Received By:

Cool & Intact Tamara Oldaker

### Sample ID: B - 9 SURFACE (H903729-09)

BTEX 8021B	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Anatyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2019	ND	1.94	97.2	2.00	4.64	
Toluene*	<0.050	0.050	11/04/2019	ND	1.65	82.3	2.00	8.51	
Ethylbenzene*	<0.050	0.050	11/04/2019	ND	1.66	83.1	2.00	11.0	
Total Xylenes*	<0.150	0.150	11/04/2019	ND	5.37	89.4	6.00	5.15	
Total BTEX	<0.300	0.300	11/04/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.2 9	6 73.3-12	9						
Chloride, SM4500Ci-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/05/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2019	ND	212	106	200	4.55	
DRO >C10-C28*	<10.0	10.0	11/04/2019	ND	206	103	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	11/04/2019	ND					
Surrogate: 1-Chlorooctane	67.09	6 41-142							
Surrogate: 1-Chlorooctadecane	64.49	6 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liabelay and Damages. Cardinal's hability and client's evolutive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by cherk for analyses. All claims, including those for negligence and any other clause whatsoever 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 hable for incidental or consequential damages, including, without amytoon, business interruptions, loss of use, or 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 write approval of Cardinal Laborationes.

Colog i trians

Celey D. Keene, Lab Director/Quality Manager

Page 10 of 24



### Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported:

Project Name:

10/31/2019 11/05/2019 EBDU #55

Project Number: NONE GIVEN Project Location: EUNICE, NM

Sampling Date: 10/31/2019

Sampling Type: Soil

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

### Sample ID: B - 10 SURFACE (H903729-10)

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	11/04/2019	ND	1.94	97.2	2.00	4.64	
Toluene*	<0.050	0.050	11/04/2019	ND	1.65	82.3	2.00	8.51	
Ethylbenzene*	<0.050	0.050	11/04/2019	ND	1.66	83.1	2.00	11.0	
Total Xylenes*	< 0.150	0.150	11/04/2019	ND	5.37	89.4	6.00	5.15	
Total BTEX	<0.300	0.300	11/04/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104	% 73,3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride.	80.0	16.0	11/05/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2019	ND	212	106	200	4.55	
DRO >C10-C28*	<10.0	10.0	11/04/2019	ND	206	103	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	11/04/2019	ND					
Surrogate: 1-Chlorooctane	87.6	% 41-142							
Surrogate: 1-Chlorooctadecane	84.9	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and chen's exclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by chent for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in witing and incovered by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incodernal or consequential disruppes, including, without amutation, business interruptions, loss of use, or loss of profits incurred by client, its subjectiones, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims 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 Laborationes.

Colog I treas



### Analytical Results For:

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

Fax To:

(575) 393-2432

Analyzed By: MS

Received: Reported: 10/31/2019 11/05/2019

Project Name: Project Number:

Project Location:

**BTEX 8021B** 

EBDU #55 NONE GIVEN EUNICE, NM

mg/kg

Sampling Date:

10/31/2019

Sampling Type:

Soil

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

### Sample ID: B - 11 SURFACE (H903729-11)

		A.S.	Milaryze	a by the					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2019	ND	1.94	97.2	2.00	4.64	
Toluene*	<0.050	0.050	11/04/2019	ND	1.65	82.3	2.00	8.51	
Ethylbenzene*	<0.050	0.050	11/04/2019	ND	1.66	83.1	2.00	11.0	
Total Xylenes*	< 0.150	0.150	11/04/2019	ND	5.37	89.4	6.00	5.15	
Total BTEX	<0.300	0.300	11/04/2019	ND					
Surrogate: 4-Bromofluorobenzene (Pla	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	11/05/2019	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2019	ND	212	106	200	4.55	
DRO >C10-C28*	<10.0	10.0	11/04/2019	ND	206	103	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	11/04/2019	ND					
Surrogate: 1-Chlorooctane	85.2	% 41-142	•						
Surrogate: I-Chlorooctadecane	80.5	% 37.6-14	7						
50.50.00 • 27.									

### Cardinal Laboratories

\*=Accredited Analyte

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

Colleg 2 trains



### Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported:

10/31/2019 11/05/2019

Project Name:

EBDU #55 Project Number: NONE GIVEN Project Location: EUNICE, NM

Sampling Date:

10/31/2019

Sampling Type:

Soil Cool & Intact

Sampling Condition: Sample Received By:

Tamara Oldaker

### Sample ID: B - 12 SURFACE (H903729-12)

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	11/04/2019	ND	1.94	97.2	2.00	4.64	
Toluene*	<0.050	0,050	11/04/2019	ND	1.65	82.3	2.00	8.51	
Ethylbenzene*	<0.050	0.050	11/04/2019	ND	1.66	83.1	2.00	11.0	
Total Xylenes*	<0.150	0.150	11/04/2019	ND	5.37	89.4	6.00	5.15	
Total BTEX	<0.300	0.300	11/04/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	103 9	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	11/05/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/01/2019	ND	212	106	200	4.55	
DRO >C10-C28*	<10.0	10.0	11/01/2019	ND	206	103	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	11/01/2019	ND					
Surrogate: 1-Chlorooctane	85.1	% 41-142							
Surrogate: 1-Chlorooctadecane	93.2	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages, Cardinal's lability and cherk's eviduative remedy for any dairn arising, whether based in contract or tort, shall be limited to the amount paid by chert for analyses. All claims, including those for negligence and any other cause whatsoever shall be idented wined unless made in wrong and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be hable for inodernal or consequential damages, including, without limitation, business interruptions, loss of use, or loss of use, or loss of profits incurred by client, its subsidiants, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such client 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 I . trans-



### Analytical Results For:

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

Fax To:

(575) 393-2432

Applymed By MC

Received: Reported:

DTEV GASTE

10/31/2019 11/05/2019 Sampling Date: Sampling Type: 10/31/2019

Soil

Project Name:

EBDU #55 NONE GIVEN

Sampling Condition:

Cool & Intact

Project Number: Project Location:

EUNICE, NM

Sample Received By:

Tamara Oldaker

### Sample ID: B - 13 SURFACE (H903729-13)

B1EX 8021B	mg,	Kg	Anaiyze	a By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2019	ND	1.94	97.2	2.00	4.64	
Toluene*	<0.050	0.050	11/04/2019	ND	1.65	82.3	2.00	8.51	
Ethylbenzene*	<0.050	0.050	11/04/2019	ND	1.66	83.1	2.00	11.0	
Total Xylenes*	<0.150	0.150	11/04/2019	ND	5.37	89.4	6.00	5.15	
Total BTEX	<0.300	0.300	11/04/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/05/2019	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2019	ND	212	106	200	4.55	
DRO >C10-C28*	<10.0	10.0	11/02/2019	ND	206	103	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	11/02/2019	ND					
Surrogate: 1-Chlorooctane	84.0	% 41-142	!						
Surrogate: 1-Chlorooctadecane	93.3	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liabelity and Damages. Cardinal's liabelity and chem's evolutive remedy for any daim ansing, whether based in contract or tort, shall be limited to the amount paid by chent for analyses. All claims, including those for negligence and any other cause whitsoever shall be determed warved unless made in writing and netword by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arong out of or related to the performance of the services hereunder by Cardinal, regardless of whether such client 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 2 . trains



### Analytical Results For:

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

Fax To:

(575) 393-2432

Analyzed By: MS

Received: Reported: 10/31/2019 11/05/2019

Project Name:

EBDU #55 NONE GIVEN

Sampling Date:

10/31/2019

Sampling Type:

Soil Cool & Intact

Sampling Condition: Sample Received By:

Tamara Oldaker

Project Number: Project Location:

EUNICE, NM

Sample ID: B - 14 SURFACE (H903729-14)

BTEX	8021B

X	8021B	mg/kg
X	8071R	mg/kg

	*******		************	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2019	ND	1.94	97.2	2.00	4.64	
Toluene*	< 0.050	0.050	11/04/2019	ND	1.65	82.3	2.00	8.51	
Ethylbenzene*	<0.050	0.050	11/04/2019	ND	1.66	83.1	2.00	11.0	
Total Xylenes*	<0.150	0.150	11/04/2019	ND	5.37	89.4	6.00	5.15	
Total BTEX	<0.300	0.300	11/04/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	'kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/05/2019	ND	416	104	400	3.92	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method 8lank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2019	ND	212	106	200	4.55	
DRO >C10-C28*	<10.0	10.0	11/04/2019	ND	206	103	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	11/04/2019	ND					
Surrogate: 1-Chlorooctane	80.4	% 41-142							
Surrogate: 1-Chlorooctadecane	80.6	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liablety and Damages. Cardinal's hability and chent's eviluative ricemedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whitsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequencial damages, including, without amount, outsiness interruptions, loss of use, or loss of use, or loss of profits incidental or consequencial damages, including, without amount, or incidental incidental profits incidental or consequencial damages, including without amount, or incidental cardinal be liable for incidental or consequencial damages, including without amount, or incidental cardinal be liable for incidental or consequencial damages, including those or use of profits incidental or consequencial damages, including those or use of profits incidental or consequencial damages, including those or use of profits incidental or consequencial damages, including those or use of profits incidental or consequencial damages, including those or use of profits incidental or consequencial damages, including those or use of profits incidental or consequencial damages, including those or use of profits incidental or consequencial damages, including those or use of profits incidental or consequencial damages, including those or use of profits incidental or consequencial damages, including those or use of profits incidental or consequencial damages, including those or use of profits incidental or consequencial damages, including those or use of profits incidental or consequencial damages, including those or use of profits incidental or consequencial damages, including those or use of the profits of the

College trans



### Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 10/31/2019 11/05/2019 EBDH #55 Sampling Date: Sampling Type: 10/31/2019

Soil

Project Name: Project Number:

Project Location:

EBDU #55 NONE GIVEN EUNICE, NM Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

### Sample ID: B - 15 SURFACE (H903729-15)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/04/2019	ND	1.94	97.2	2.00	4.64	
Toluene*	<0.050	0.050	11/04/2019	ND	1.65	82.3	2.00	8.51	
Ethylbenzene*	<0.050	0.050	11/04/2019	ND	1.66	83.1	2.00	11.0	
Total Xylenes*	<0.150	0.150	11/04/2019	ND	5.37	89.4	6.00	5.15	
Total BTEX	<0.300	0.300	11/04/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	97.6	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/05/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2019	ND	212	106	200	4.55	
DRO >C10-C28*	<10.0	10.0	11/04/2019	ND	206	103	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	11/04/2019	ND					
Surrogate: 1-Chlorooctane	69.4	% 41-142							
Surrogate: 1-Chlorooctadecane	70.2	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

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

College L. Kinne

Celey D. Keene, Lab Director/Quality Manager

Page 16 of 24



### Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

10/31/2019

Reported: Project Name: 11/05/2019 EBDU #55

Project Number: Project Location:

NONE GIVEN EUNICE, NM Sampling Date:

10/31/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

### Sample ID: B - 16 SURFACE (H903729-16)

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	11/04/2019	ND	1.94	97.2	2.00	4.64	
Toluene*	<0.050	0.050	11/04/2019	ND	1.65	82.3	2.00	8.51	
Ethylbenzene*	<0.050	0.050	11/04/2019	ND	1.66	83.1	2.00	11.0	
Total Xylenes*	<0.150	0.150	11/04/2019	ND	5.37	89.4	6.00	5.15	
Total BTEX	<0.300	0.300	11/04/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	103	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	11/05/2019	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2019	NĐ	212	106	200	4.55	
DRO >C10-C28*	<10.0	10.0	11/04/2019	ND	206	103	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	11/04/2019	ND					
Surrogate: 1-Chlorooctane	90.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	89.7	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

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

alogi trans



### Analytical Results For:

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

Received: Reported: 10/31/2019 11/05/2019

Project Name: Project Number:

Project Location:

EBDU #55

NONE GIVEN EUNICE, NM

91.3%

37.6-147

Sampling Date:

Sampling Type:

10/31/2019 Soil

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

### Sample ID: B - 17 SURFACE (H903729-17)

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	11/05/2019	ND	1.97	98.4	2.00	4.52	
Toluene*	<0.050	0.050	11/05/2019	ND	1.65	82.6	2.00	2.64	
Ethylbenzene*	<0.050	0.050	11/05/2019	ND	1.74	87.0	2.00	0.291	
Total Xylenes*	< 0.150	0.150	11/05/2019	ND	5.23	87.1	6.00	1.94	
Total 8TEX	<0.300	0,300	11/05/2019	ND					
Surrogate: 4-Bromosluorobenzene (PIE	102 9	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/05/2019	ND	416	104	400	3.92	
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	11/02/2019	ND	212	106	200	4.55	
DRO >C10-C28*	< 10.0	10.0	11/02/2019	ND	206	103	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	11/02/2019	ND					
Surrogate: 1-Chlorooctane	82.5 5	% 41-142							

### **Cardinal Laboratories** \*=Accredited Analyte

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

College trans

Surrogate: 1-Chlorooctadecane



### Analytical Results For:

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

Received: 10/31/2019 Reported: 11/05/2019

Project Name: EBDU #55
Project Number: NONE GIVEN
Project Location: EUNICE, NM

Sampling Condition: Sample Received By:

Sampling Date:

10/31/2019

Sampling Type: Soil

Cool & Intact Tamara Oldaker

Sample ID: B - 18 SURFACE (H903729-18)

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	11/05/2019	ND	1.97	98.4	2.00	4.52	
Toluene*	<0.050	0.050	11/05/2019	ND	1.65	82.6	2.00	2.64	
Ethylbenzene*	<0.050	0.050	11/05/2019	ND	1.74	87.0	2.00	0.291	
Total Xylenes*	<0.150	0.150	11/05/2019	ND	5.23	87.1	6.00	1.94	
Total BTEX	<0.300	0.300	11/05/2019	ND					

Chloride, SM4500CI-8	mg/kg		Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS %R	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/05/2019	ND	416	104	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/02/2019	ND	212	106	200	4.55	
DRO >C10-C28*	<10.0	10.0	11/02/2019	ND	206	103	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	11/02/2019	ND					

Surrogate: 1-Chlorooctane 75.1 % 41-142
Surrogate: 1-Chlorooctadecane 83.1 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's bability and chert's evidualive remoty for any claim ansing, whether based in contract or tort, shall be lamited to the amount paid by client for analysiss. All claims, including those for negligence and any other cause whitsoever shall be deemed viewed unless made in whong and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequenced damages, including, without limitation, business interruptions, loss of use, or loss of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratones.

Colog ? trens



# Analytical Results For:

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

Fax To:

Sampling Date:

10/31/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Project Number:

Received:

Reported:

Project Name:

EBDU #55 NONE GIVEN

10/31/2019

11/05/2019

Sample Received By:

Tamara Oldaker

Project Location:

EUNICE, NM

### Sample ID: B - 19 SURFACE (H903729-19)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	88	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2019	ND	1.97	98.4	2.00	4.52	
Toluene*	<0.050	0.050	11/05/2019	ND	1.65	82.6	2.00	2.64	
Ethylbenzene*	<0.050	0.050	11/05/2019	ND	1.74	87.0	2.00	0.291	
Total Xylenes*	< 0.150	0.150	11/05/2019	ND	5.23	87.1	6.00	1.94	
Total BTEX	<0.300	0.300	11/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	95.4	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/05/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2019	ND	226	113	200	0.366	
DRO >C10-C28*	<10.0	10.0	11/04/2019	ND	225	113	200	2.40	
EXT DRO >C28-C36	<10.0	10.0	11/04/2019	ND					
Surrogate: 1-Chlorooctane	91.0	% 41-142							
Surrogate: 1-Chlorooctadecane	92.7	% 37.6-14	7						

# Cardinal Laboratories

\*=Accredited Analyte

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

Colony i trans



# Analytical Results For:

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

Fax To:

(575) 393-2432

Analyzed Byr MC

Received: Reported: 10/31/2019 11/05/2019

Project Name: Project Number:

Project Location:

DTEV 90310

EBDU #55 NONE GIVEN EUNICE, NM Sampling Date:

10/31/2019

Sampling Type:

Soil Cool & Intact

Sampling Condition: Sample Received By:

Tamara Oldaker

# Sample ID: B - 20 SURFACE (H903729-20)

BTEX 8021B	mg/	кд	Anaiyze	a By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2019	ND	1.97	98.4	2.00	4.52	
Toluene*	<0.050	0.050	11/05/2019	ND	1,65	82.6	2.00	2.64	
Ethylbenzene*	<0.050	0.050	11/05/2019	ND	1.74	87.0	2.00	0.291	
Total Xylenes*	<0.150	0.150	11/05/2019	ND	5.23	87.1	6.00	1.94	
Total BTEX	<0.300	0.300	11/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	99.1	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/05/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2019	ND	226	113	200	0.366	
DRO >C10-C28*	<10.0	10.0	11/04/2019	ND	225	113	200	2.40	
EXT DRO >C28-C36	<10.0	10.0	11/04/2019	ND					
Surrogate: 1-Chlorooctane	95,3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	96.2	% 37.6-14	7						

# Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Cardinal's hability and client's exclusive remedy for any client ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negigence and any other cause whatsoever 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 hable for incidental or consequential damages, including, without amvation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiants, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproducted except in full with vention approval of Cardinal Laborationes.

Colog L' trans

Celey D. Keene, Lab Director/Quality Manager

Page 21 of 24



### **Notes and Definitions**

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

\*\*\* Insufficient time to reach temperature

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

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

Cardinal Laboratories \*=Accredited Analyte

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

Colony I trans

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

Observed Temp. °C 3.3
Corrected Temp. °C 3.7

Sample Condition
Cool Intact
GYes GYes
No No

CHECKED BY: (Initials)

Turnaround Time:

Standard |

Thermometer ID #97
Correction Factor + 0.4 °C

REMARKS: Finail to BEAR Trinity oil field services.com

Time:



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: ADMIN (ACEDIATION	BILL TO	ANALYSIS REQUEST
Project Manager: LFB100M / Bruc Baker	ater	
Address:	Company:	
City: State:	Zip: Attn:	
Phone #: Fax #:	Address:	
Project #: Project Owner:	er: City:	
Project Name: EGDU #55	State: Zip:	9.
Project Location: Einice MM	Phone #:	
Sampler Name: Ruse Raster	Fax #:	
FOR LAB USE ONLY	MATRIX PRESERV.	SAMPLING
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	DATE TIME  CL EXT. TPH  ISTEX
2.41		ANICH See Sulley
いいできる		750
4B.4 Sirace		3:80
S BS SUTTALC		3:22 VVVVV
		The state of the s
8 7 3 Sistace		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		1/1/1/ RN
	70	13/14 3:41 / / / /
e = 2 Ω	r any clom orising whether based in contract or fort, shall be limited to the demental waved unless made in writing and received by Cardishal within be demental waved unless made in writing and received by Cardishal within you unlimitation, business interruptions, loss of use, or fost of profits without, regardless, of whether such dainn a based upon any of the at	a amount plad by the client for the 30 days after completion of the applicable completion of the applicable completion of the applicable completion by client, its subsidiaries.
Relinguished By!  Oate: 1073/1/9	Received By:	Verbal Result: □ Yes □ No Add'! Phone #:   All Results are emailed. Please provide Email address:
Relinquished By: Date:	Received By:	REMARKS: ZMAIL + CONTRACTOR OF THE STATE OF

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Arache Corporation	8/1/170	ANALYSIS RECLIEST
Bram/Brue	Butter P.O.#:	
1	Company:	
City: State:	Zip: Attn:	
Phone #: Fax #:	Address:	
Project #: Project Owner:	City:	
Project Name: EBD: #55	State: Zip:	
Project Location: Eunice, NM	*	
	Fax #:	
	MATRIX PRESERV.	SAMPLING
Lab I.D. Sample I.D.	OWATER VATER	
H963729	# CONT.	EXT BIEX
11 311 5115010		<u> </u>
i i	144:8	3.44 1
		< / < /
1		3.48
10 13-10 Sul mice		XX // / /
17 17 7 Mark	a tata de manare de la companio del companio de la companio del companio de la companio del la companio de  la companio de la	25.0
		7.5.2
N-K	4	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
20 15 2 Suffice.  PEASE NOTE: Libitize and Damanase Continues in the National Continues and Continues in the National Cont	13/	1 4 CO 1 V V
analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in wraing and received by Cardinal whan 30 days after competions of the applicable sorvice. In overall shall Cardinal be liable for incidental or consequential damages, business whose the competions are consequently designed by Cardinal behalf or incidental or consequential damages, white whose whose impacts on time and or cardinal behalf or subsidiaries.	emed waived unless made in writing and received by Cardinal within 30 days after thou limitation, business interruptions, loss of use, or loss of profits incurred by ca	Odays after completion of the applicable curred by ctient, its subsidiaries,
· 1	ceived By:	Verbal Result: ☐ Yes ☐ No Add'I Phone #: All Results are emailed. Please provide Email address:
Relinquished By:	My and Marky	REMARKS: BUTION TY ON FRED CENTICOS COM
Time:	ì	
Delivered By: (Circle One) Observed Temp. °C	le Condition CHECKED BY:	Turnaround Time: Standard  Bacteria (only) Sample Condition
Sampler - UPS - Bus - Other: Corrected Temp. °C	3.7 Cross macr. (initials)	Rush
רטאויי-טטס א טיס		I No I No Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



November 07, 2019

**BRUCE BAKER** 

**APACHE CORP - HOBBS** 

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EBDU #55

Enclosed are the results of analyses for samples received by the laboratory on 11/04/19 16:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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/qa/lab-accred-certif.html">www.tceq.texas.gov/field/qa/lab-accred-certif.html</a>.

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. Keena

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



# Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

11/04/2019 11/07/2019 Sampling Date: Sampling Type: 11/04/2019

Reported:

Sampling Condition:

Soil Cool & Intact

Project Name: Project Number: EBDU #55 NONE GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

EUNICE, NM

# Sample ID: B - 21 @1 (H903754-01)

BTEX 8021B	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.72	
Toluene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.53	
Ethylbenzene*	<0.050	0.050	11/05/2019	ND	1.80	89.9	2.00	9.27	
Total Xylenes*	<0.150	0.150	11/05/2019	ND	5.36	89.3	6.00	9.27	
Total BTEX	<0.300	0.300	11/05/2019	ND					
Surrogate 4-Bromofluorobenzene (PIL	98.4	% 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	176	16.0	11/06/2019	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2019	ND	231	116	200	0.986	
DRO >C10-C28*	<10.0	10.0	11/05/2019	ND	228	114	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	11/05/2019	ND					
Surrogate: 1-Chlorooctane	96.9	% 41-142							
Surrogate: 1-Chlorooctadecane	97.9	% 37,6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liabley and Damages. Cardinal's liabley and client's evilusive remedy for any dain ansing, whether bissed in contract or tort, shall be invited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whitesoever 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 inoderital or consequential damages, including, without limitation, business interruptions, loss of use, or loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laborationes.

Cologi trans



### Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 11/04/2019

Project Name:

Project Number: Project Location: 11/07/2019 EBDU #55

NONE GIVEN EUNICE, NM

Sampling Date:

11/04/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact Tamara Oldaker

Sample Received By:

Sample ID: B - 22	@1 (H903754-02)
RTEV 2021R	1994

mg/kg	Analyzed By: CK
<del>- "</del>	

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.72	
Toluene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.53	
Ethylbenzene*	<0.050	0.050	11/05/2019	ND	1.80	89.9	2.00	9.27	
Total Xylenes*	<0.150	0.150	11/05/2019	ND	5.36	89.3	6.00	9.27	
Total BTEX	<0.300	0.300	11/05/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL

97.9 %

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
Chloride	96.0	16.0	11/06/2019	ND	432	108	400	3.77	
PH 8015M mg/kg		/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2019	ND	231	116	200	0.986	
DRO >C10-C28*	<10.0	10.0	11/05/2019	ND	228	114	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	11/05/2019	ND					

Surrogate: 1-Chlorooctane

94.5 %

41-142

Surrogate: 1-Chlorooctadecane

95.7 %

37.6-147

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Uablety and Damages. Cardinal's liabelity and chemit's exclusive remedy for any claim anising, whether based in contract or tork, shall be limited to the amount paid by client for analyses. All claims any other cause whitesoever 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 reclusing, without limitation, business informations, loss of use, or loss of profits encurred by client, is abubidance, affiliates or successors aming out of or related to the performance of the services hereunder by client, as subsidiances, affiliates or successors aming out of or related to the performance of the services hereunder by client, as subsidiances, affiliates or successors aming out of or related to the performance of the services hereunder by client, as subsidiances.

Codery 2 trains

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 49



### Analytical Results For:

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

Fax To:

): (575) 393-2432

Received:

11/04/2019

Reported: Project Name: 11/07/2019 EBDU #55

Project Number: Project Location:

NONE GIVEN EUNICE, NM Sampling Date:

11/04/2019

Soil

Sampling Type:

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

# Sample ID: B - 23 @1 (H903754-03)

BTEX 8021B	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.72	
Toluene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.53	
Ethylbenzene*	<0.050	0.050	11/05/2019	ND	1.80	89.9	2.00	9.27	
Total Xylenes*	<0.150	0.150	11/05/2019	ND	5.36	89.3	6.00	9.27	
Total BTEX	<0.300	0.300	11/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	99.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/06/2019	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2019	ND	231	116	200	0.986	
DRO >C10-C28*	<10.0	10.0	11/05/2019	ND	228	114	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	11/05/2019	ND					
Surrogate: 1-Chlorooctane	101	% 41-142	?						
Surrogate: 1-Chlorooctadecane	104	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

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

Chazi timo



# Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported:

Project Name:

11/04/2019 11/07/2019

EBDU #55

Project Number: Project Location: NONE GIVEN EUNICE, NM

Sampling Date:

11/04/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

# Sample ID: B - 24 @1 (H903754-04)

BTEX 80218	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.72	
Toluene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.53	
Ethylbenzene*	<0.050	0.050	11/05/2019	ND	1.80	89.9	2.00	9.27	
Total Xylenes*	<0.150	0.150	11/05/2019	ND	5.36	89.3	6.00	9.27	
Total BTEX	<0.300	0.300	11/05/2019	ND					
Surrogate 4-Bromofluorobenzene (PIE	99.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/06/2019	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2019	ND	231	116	200	0.986	
DRO >C10-C28*	<10.0	10.0	11/05/2019	ND	228	114	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	11/05/2019	ND					
Surrogate: 1-Chlorooctane	96.6	% 41-142	!				.,		
Surrogate: 1-Chlorooctadecane	98.8	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's evolutive remedy for any claim ansing, whether bissed in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed warved unless made in winting and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business intermptions, loss of use, or loss of profits including by client, its subsidiaries, affiliables or successors arising out of or related to the performance of the services hereinder by Cardinal, regardless of whether such claims 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 fill with written approval of Cardinal Laboratories.

Colog 2. trains



# Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 11/04/2019 11/07/2019

EBDU #55

Project Name: Project Number: Project Location:

NONE GIVEN EUNICE, NM

Sampling Date:

11/04/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

### Sample ID: B - 25 @1 (H903754-05)

BTEX 8021B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.72	
Toluene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.53	
Ethylbenzene*	<0.050	0.050	11/05/2019	ND	1.80	89.9	2.00	9.27	
Total Xylenes*	<0.150	0.150	11/05/2019	ND	5.36	89.3	6.00	9.27	
Total BTEX	<0.300	0.300	11/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.9	% 73,3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	64.0	16.0	11/06/2019	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	11/05/2019	ND	231	116	200	0.986	
DRO >C10-C28*	<10.0	10.0	11/05/2019	ND	228	114	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	11/05/2019	ND					
Surrogate: 1-Chlorooctane	99.3	% 41-142							
Surrogate: 1-Chlorooctadecane	101	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Utablishy and Damages. Cardinal's lability and chent's e-dusive remedy for any darm ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for inodernal or consequential damages, including, without limitation, business interruptions, loss of use, or loss of use,

Colony L. triana



# Analytical Results For:

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

Received: Reported: 11/04/2019 11/07/2019

Project Name: Project Number: Project Location:

EBDU #55 NONE GIVEN EUNICE, NM

Sampling Date:

11/04/2019 Sampling Type:

Sampling Condition: Sample Received By: Soil

200

2.88

Cool & Intact Tamara Oldaker

Sample ID: B - 26 @1 (H903754-06)

BTEX 8021	В
-----------	---

ma	,	Ŀ.
mg	,	

### Analyzed By: CK

		_		-					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.72	
Toluene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.53	
Ethylbenzene*	<0.050	0.050	11/05/2019	ND	1.80	89.9	2.00	9.27	
Total Xylenes*	<0.150	0.150	11/05/2019	ND	5.36	89.3	6.00	9.27	
Total BTEX	<0.300	0.300	11/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	97.8	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/06/2019	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2019	ND	231	116	200	0.986	

ND

ND

228

114

Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane

DRO >C10-C28\*

EXT DRO >C28-C36

94.1 %

41-142

11/05/2019

11/05/2019

10.0

10.0

95.7%

<10.0

<10.0

37.6-147

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cordinal's habbity and chemit's exclusive remedy for any claim arising, whether based in contract or tort, shall be immited to the amount paid by clent for analyses. All claims, including those for negligence and any other cause whistoever shall be determed warved unless made in whiting and neceived by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be hable for incidental or consequencial damages, including, without immation, business interruptions, loss of use, or loss of profits incurred by client, its subjectances, affiliates or successors anising out of or related to the performance of the services hereunder by Cardinal, requiriless of whether such

Cologi treans



### Analytical Results For:

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

Fax To:

(575) 393-2432

Analyzed By: CK

Received:

11/04/2019

Reported:

BTEX 8021B

11/07/2019 EBDU #55

Project Name: Project Number:

NONE GIVEN

Sampling Date:

11/04/2019

Sampling Type:

Soil & Ir

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

Project Location:

EUNICE, NM

mg/kg

Sample ID: B - 27 @1 (H903754-07)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.72	
Toluene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.53	
Ethylbenzene*	<0.050	0.050	11/05/2019	ND	1.80	89.9	2.00	9.27	
Total Xylenes*	<0.150	0.150	11/05/2019	ND	5.36	89.3	6.00	9.27	
Total BTEX	<0.300	0.300	11/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/06/2019	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	đ By: CK	- 11				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2019	ND	231	116	200	0.986	
DRO >C10-C28*	<10.0	10.0	11/05/2019	ND	228	114	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	11/05/2019	ND					

Surrogate: 1-Chlorooctane

101%

41-142

Surrogate: 1-Chlorooctadecane

103 %

37.6-147

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liabday and Damages. Cardinal's liabday and chent's evidualive remedy for any claim ansing, whether bissed in contract or tort, shall be lamited to the amount paid by chent for analyses. All claims, including those for negigence and any other cause whatsoever shall be deemed waived unless made in whiting and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for inociental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiants, affiliates or successors among 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 massions or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laborationes.

Colory Latiena

Celey D. Keene, Lab Director/Quality Manager

Page 8 of 49



# Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 11/04/2019 11/07/2019

EBDU #55

Project Name: Project Number: Project Location:

NONE GIVEN EUNICE, NM

Sampling Date:

11/04/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By:

Cool & Intact Tamara Oldaker

Sample ID: B - 28 @1 (H903754-08)

BTEX 8021B	mg/l	kg .	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.72	
Toluene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.53	
Ethylbenzene*	<0.050	0.050	11/05/2019	ND	1.80	89.9	2.00	9.27	
Total Xylenes*	<0.150	0.150	11/05/2019	ND	5.36	89.3	6.00	9.27	
Total 8TEX	<0.300	0.300	11/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.3 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/l	kg	Analyze	d By: AC					

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/06/2019	ND	432	108	400	3,77	
TPH 8015M	mg.	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2019	ND	231	116	200	0.986	
DRO >C10-C28*	<10.0	10.0	11/05/2019	ND	228	114	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	11/05/2019	ND					

Surrogate: 1-Chlorooctane

102%

41-142

Surrogate: 1-Chlorooctadecane

105 %

37.6-147

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liabday and Damages. Cardinal's liabday and client's eviduative remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount plaid by claims for analyses. All claims, including those for negligence and any other cause whitsoever shall be ideemed 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 inodestable or consequential damages, including, without limitation, business interruptions, loss of use, or loss of use, or loss of profits incurred by client, as subsidianes, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise, Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Liaboratones.

Colony Lations

Celey D. Keene, Lab Director/Quality Manager

Page 9 of 49



# Analytical Results For:

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

11/04/2019 Reported: 11/07/2019

EBDU #55 Project Name: Project Number: NONE GIVEN

Project Location: EUNICE, NM Sampling Date:

11/04/2019

Sampling Type: Soil

Cool & Intact

Sampling Condition: Sample Received By:

Tamara Oldaker

### Sample ID: B - 29 @1 (H903754-09)

Received:

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.72	
Toluene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.53	
Ethylbenzene*	<0.050	0.050	11/05/2019	ND	1.80	89.9	2.00	9.27	
Total Xylenes*	<0.150	0.150	11/05/2019	ND	5.36	89.3	6.00	9.27	
Total BTEX	<0.300	0.300	11/05/2019	ND					
Surrogate 4-Bromofluorobenzene (PIL	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/06/2019	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2019	ND	231	116	200	0.986	
DRO >C10-C28*	<10.0	10.0	11/05/2019	ND	228	114	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	11/05/2019	ND					
Surragate: 1-Chlorooctane	102	% 41-142	•						
Surrogate: 1-Chlorooctadecane	105	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

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

Colog Z trans

Celey D. Keene, Lab Director/Quality Manager



# Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 11/04/2019

11/07/2019

Project Name: Project Number: Project Location: EBDU #55 **NONE GIVEN** 

EUNICE, NM

Sampling Date:

11/04/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

# Sample ID: B - 30 @1 (H903754-10)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Anatyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.72	
Toluene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.53	
Ethylbenzene*	<0.050	0.050	11/05/2019	ND	1.80	89.9	2.00	9.27	
Total Xylenes*	<0.150	0.150	11/05/2019	ND	5.36	89.3	6.00	9.27	
Total BTEX	<0.300	0.300	11/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	99.6	% 73,3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/06/2019	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2019	ND	231	116	200	0.986	
DRO >C10-C28*	<10.0	10.0	11/05/2019	ND	228	114	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	11/05/2019	ND					
Surrogate: 1-Chlorooctane	93.0	% 41-142	?						
Surragate: 1-Chlorooctadecane	94.4	% 37.6-14	7						

# Cardinal Laboratories

\*=Accredited Analyte

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

College . trans



# Analytical Results For:

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

Fax To:

Received:

11/04/2019 11/07/2019

Reported: Project Name:

EBDU #55 NONE GIVEN

Project Number: Project Location:

EUNICE, NM

Sampling Date:

11/04/2019

Sampling Type:

Sampling Condition: Sample Received By: Soil Cool & Intact

Tamara Oldaker

# Sample ID: B - 31 @1 (H903754-11)

BTEX 8021B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.72	
Toluene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.53	
Ethylbenzene*	<0.050	0.050	11/05/2019	ND	1.80	89.9	2.00	9.27	
Total Xylenes*	<0.150	0.150	11/05/2019	ND	5.36	89.3	6.00	9.27	
Total BTEX	<0.300	0.300	11/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (Pla	97.5	% 73.3-12	19						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/06/2019	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2019	ND	231	116	200	0.986	
DRO >C10-C28*	<10.0	10.0	11/05/2019	ND	228	114	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	11/05/2019	ND					
Surrogate: 1-Chlorooctane	92.7	% 41-142	?						
Surrogate: 1-Chlorooctadecane	95.4	% 37.6-14	17						
Surrogate: 1-Chlorooctadecane	95.4	% 37.6-14	17						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liabétay and Damages. Cardinal's abbitry and cherk's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by chert for analyses. All claims, including those for negligence and any other cause whitscorver 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 hable for inodersal or consequential damages, including, without limitation, business interruptions, loss of use, or loss of whether such claims 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 Laborationes.

Colog L' triend



# Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

11/04/2019 11/07/2019 Sampling Date: Sampling Type: 11/04/2019

Reported: Project Name:

EBDU #55

Sampling Condition:

Soil Cool & Intact

Project Number: Project Location: NONE GIVEN **EUNICE, NM** 

Sample Received By:

Tamara Oldaker

# Sample ID: B - 32 @1 (H903754-12)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.72	
Toluene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.53	
Ethylbenzene*	<0.050	0.050	11/05/2019	ND	1.80	89.9	2.00	9.27	
Total Xylenes*	<0.150	0.150	11/05/2019	ND	5.36	89.3	6.00	9.27	
Total BTEX	<0.300	0.300	11/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	99.7 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	32.0	16.0	11/06/2019	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: CK			<b>-</b> -		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2019	ND	231	116	200	0.986	
DRO >C10-C28*	<10.0	10.0	11/05/2019	ND	228	114	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	11/05/2019	ND					
Surrogate: 1-Chlorooctane	98.2 9	% 41-142							
Surrogate: 1-Chlorooctadecane	101 9	6 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

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

Colog 2 treas



# Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 11/04/2019

11/07/2019

Project Name: Project Number: Project Location: EBDU #55 NONE GIVEN

**EUNICE, NM** 

Sampling Date:

11/04/2019

Sampling Type: Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: B - 33 @1 (H903754-13)

BTEX 8021B	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.72	
Toluene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.53	
Ethylbenzene*	<0.050	0.050	11/05/2019	ND	1.80	89.9	2.00	9.27	
Total Xylenes*	<0.150	0.150	11/05/2019	ND	5.36	89.3	6.00	9.27	
Total BTEX	<0.300	0.300	11/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	99.8	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/06/2019	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2019	ND	231	116	200	0.986	
DRO >C10-C28*	<10.0	10.0	11/05/2019	ND	228	114	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	11/05/2019	ND					
Surrogate: 1-Chlorooctane	88.2	% 41-142	!						
Surrogate: 1-Chlorooctadecane	89.7	% 37.6-14	7						

# Cardinal Laboratories

\*=Accredited Analyte

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

Colog i trans

Celey D. Keene, Lab Director/Quality Manager

Page 14 of 49



### Analytical Results For:

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

Fax To:

11/04/2019

Received: Reported:

DTEV ONSID

11/04/2019 11/07/2019

Sampling Date: Sampling Type:

Soil

Project Name: Project Number: EBDU #55 NONE GIVEN Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Location:

EUNICE, NM

# Sample ID: B - 34 @1 (H903754-14)

BTEX 8021B	mg/	rkg	Anaiyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.72	
Toluene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.53	
Ethylbenzene*	<0.050	0.050	11/05/2019	ND	1.80	89.9	2.00	9.27	
Total Xylenes*	<0.150	0.150	11/05/2019	ND	5.36	89.3	6.00	9.27	
Total BTEX	<0.300	0.300	11/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/06/2019	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	< 10.0	10.0	11/05/2019	ND	231	116	200	0.986	
DRO >C10-C28*	<10.0	10.0	11/05/2019	ND	228	114	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	11/05/2019	ND					
Surrogate: 1-Chlorooctane	95.0	% 41-142	•						
Surrogate: I-Chlorooctadecane	96.8	% 37.6-14	7						

Analyzed Byy CK

# Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liabelay and Damages. Cardonal's habelay and chen's exclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by chent for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waved unless made in whong and received by Cardinal within thirty (30) days after comprision of the applicable service. In no event shall Cardinal be liable for inoderical or consequencial damages, including, without limitation, business interruptions, loss of use, or loss of use, or loss of profits incurred by client, its subsidiances, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stread 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 it stranna -



### Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

11/04/2019 11/07/2019

Sampling Date: Sampling Type: 11/04/2019

Soil

Reported:

EBDU #55

Sampling Condition:

Cool & Intact

Project Name: Project Number:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

EUNICE, NM

# Sample ID: B - 35 @1 (H903754-15)

BTEX 80218	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.72	
Toluene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.53	
Ethylbenzene*	<0.050	0.050	11/05/2019	ND	1.80	89.9	2.00	9.27	
Total Xylenes*	<0.150	0.150	11/05/2019	ND	5.36	89.3	6.00	9.27	
Total BTEX	<0.300	0.300	11/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	99.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/06/2019	ND	432	108	400	3.77	
TPH 8015M	mg,	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2019	ND	231	116	200	0.986	
DRO >C10-C28*	<10.0	10.0	11/05/2019	ND	228	114	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	11/05/2019	ND					
Surrogate: 1-Chlorooctane	94.6	% 41-142							
Surrogate: 1-Chlorooctadecane	96.8	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

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

Colog I trans-



# Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

11/04/2019 11/07/2019

Reported: Project Name:

EBDU #55 NONE GIVEN

Project Number: Project Location:

**EUNICE, NM** 

Sampling Date:

11/04/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

# Sample ID: B - 36 @1 (H903754-16)

BTEX 8021B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.72	
Toluene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.53	
Ethylbenzene*	<0.050	0.050	11/05/2019	ND	1.80	89.9	2.00	9.27	
Total Xylenes*	< 0.150	0.150	11/05/2019	ND	5.36	89.3	6.00	9.27	
Total BTEX	<0.300	0.300	11/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	100	% 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	11/06/2019	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2019	ND	231	116	200	0.986	
DRO >C10-C28*	<10.0	10.0	11/05/2019	ND	228	114	200	2.88	
EXT DRO >C28-C36	<10.0	10.0	11/05/2019	ND					
Surrogate: 1-Chlorooctane	90.6	% 41-142				· · · · · · · · · · · · · · · · · · ·			
Surrogate: 1-Chlorooctadecane	90.6	% 37.6-14	7						

# **Cardinal Laboratories**

\*=Accredited Analyte

PLEASE NOTE: Liabday and Damages. Cardinal's habbity and chent's exclusive remody for any claim ansing, whither based in contract or tort, shall be immed to the amount paid by cleint for analyses. All daims, including those for negligence and any other cause whatsoewer shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for inodertal or consequential stamages, including, without amount paid by client, its subsidiances, 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 Laborationes.

Colony 2 . trians



# Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 11/04/2019 11/07/2019

EBDU #55

Project Name: Project Number:

**NONE GIVEN** 

Sampling Date:

11/04/2019

Sampling Type:

Soil

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

Project Location:

EUNICE, NM

Sample ID: B - 37 @1 (H903754-17)

BTEX	802	18
------	-----	----

mg/kg
-------

82.8 %

37.6-147

Ana	iyzed	By:	CH
-----	-------	-----	----

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.72	
Toluene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.53	
Ethylbenzene*	< 0.050	0.050	11/05/2019	ND	1.80	89.9	2.00	9.27	
Total Xylenes*	< 0.150	0.150	11/05/2019	ND	5.36	89.3	6.00	9.27	
Total BTEX	<0.300	0.300	11/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.9	% 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	11/06/2019	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2019	ND	210	105	200	0.333	
DRO >C10-C28*	<10.0	10.0	11/05/2019	ND	186	93.2	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	11/05/2019	ND					
Surrogate: 1-Chlorooctane	83.6	% 41-142			-				

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any client ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistocher shall be determed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental compages, without similation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors aroung out of or related to the performance of the services hereunder by Cardinal, regardless of whether such clients between 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 abovestones.

Colony L. trains



# Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

11/04/2019 11/07/2019

Reported: Project Name:

EBDU #55 NONE GIVEN

Project Number: Project Location:

EUNICE, NM

Sampling Date:

11/04/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

# Sample ID: B - 38 @1 (H903754-18)

BTEX 8021B	mg,	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.72	
Toluene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.53	
Ethylbenzene*	<0.050	0.050	11/05/2019	ND	1.80	89.9	2.00	9.27	
Total Xylenes*	<0.150	0.150	11/05/2019	ND	5.36	89.3	6.00	9.27	
Total BTEX	<0.300	0.300	11/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	99.3	% 73.3-12	9						
Chloride, SM4500CI-8	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	11/06/2019	ND	432	108	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2019	ND	210	105	200	0,333	
DRO >C10-C28*	<10.0	10.0	11/05/2019	ND	186	93.2	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	11/05/2019	ND					
Surrogate: 1-Chlorooctane	83.6	% 41-142							
Surrogate: 1-Chlorooctadecane	83.5	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

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

Chazi trans



# Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 11/04/2019

11/07/2019

Project Name: Project Number: EBDU #55 NONE GIVEN Sampling Date:

11/04/2019

Sampling Type:

% Recovery

Soil

True Value QC

Sampling Condition: Sample Received By:

BŞ

Cool & Intact Tamara Oldaker

RPD

Qualifier

Project Location:

Analyte

EUNICE, NM

Sample ID: B - 39 @1 (H903754-19)

<b>BT</b>	EY	20	71	R

ma	1	ke

Reporting Limit

Result

		_	
Anal	vzed	Bv:	CH

Analyzed

Method Blank

Benzene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.72	
Toluene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.53	
Ethylbenzene*	<0.050	0.050	11/05/2019	ND	1.80	89.9	2.00	9.27	
Total Xylenes*	<0.150	0.150	11/05/2019	ND	5.36	89.3	6.00	9.27	
Total BTEX	<0.300	0.300	11/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/06/2019	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2019	ND	210	105	200	0.333	
DRO >C10-C28*	<10.0	10.0	11/05/2019	ND	186	93.2	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	11/05/2019	ND					
Surrogate: 1-Chlorooctane	76.2	% 41-142							
Surrogate: 1-Chlorooctadecane									

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liabday and Damages. Cardinal's labday and chen's e-clusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by chent for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for inoderital or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by Clardinal expensions, as another contracts or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratones.

Colog i trans



# Analytical Results For:

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

Fax To:

Received: Reported: 11/04/2019 11/07/2019

Project Name: Project Number: EBDU #55 NONE GIVEN

Project Location:

EUNICE, NM

Sampling Date:

11/04/2019

Sampling Type: Soil

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

Sample ID: B - 40 @1 (H903754-20)

RTFY	8071	R

m	a	1	ke

### Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.72	
Toluene*	<0.050	0.050	11/05/2019	ND	1.76	88.1	2.00	9.53	
Ethylbenzene*	<0.050	0.050	11/05/2019	ND	1.80	89.9	2.00	9.27	
Total Xylenes*	< 0.150	0.150	11/05/2019	ND	5.36	89.3	6.00	9.27	
Total BTEX	<0.300	0.300	11/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.5	% 73.3-129	9						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/06/2019	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2019	ND	210	105	200	0.333	
DRO >C10-C28*	<10.0	10.0	11/05/2019	ND	186	93.2	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	11/05/2019	ND					
Surrogate: 1-Chlorooctane	80.8	% 41-142							
Surrogate: I-Chlorooctadecane	79.4	% 37.6-14	7						

**Cardinal Laboratories** 

\*=Accredited Analyte

PLEASE NOTE: Liabelity and Damages. Cardinal's liability and client's exclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within thirty (30) days after campleton of the applicable service. In no event shall Cardinal be leable for inoderical or consequential damages, including, without imicroon, business interruptions, loss of use, or loss of profits incurred by client, its subsidiances, affiliates or successors around out of or related to the performance of the services hereunder by Cardinal, regardless of whether such dam 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 Laborationes.

Colog I trains

Celey D. Keene, Lab Director/Quality Manager

Page 21 of 49



# Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

11/04/2019 11/07/2019 Sampling Date:

11/04/2019

Reported:

EBDU #55

Sampling Type:

Soil

Project Name: Project Number:

NONE GIVEN

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

Project Location:

EUNICE, NM

Sample ID: B - 41 @1 (H903754-21)

BTEX 8021B	mg,	/kg
Analyte	Result	Reporting Limit

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.386	
Toluene*	< 0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.439	
Ethylbenzene*	< 0.050	0.050	11/06/2019	ND	1.88	93.9	2.00	0.0117	
Total Xylenes*	< 0.150	0.150	11/06/2019	ND	5.60	93.3	6.00	0.141	
Total BTEX	<0.300	0.300	11/06/2019	ND					

Analyzed By: CK

Surrogate: 4-Bromoftuorobenzene (PIL	99.4	% /3.3-129							
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	88	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/06/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2019	ND	210	105	200	0.333	
DRO >C10-C28*	<10.0	10.0	11/05/2019	ND	186	93.2	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	11/05/2019	ND					

Surrogate: 1-Chlorooctane

81.7%

41-142

Surrogate: 1-Chlorooctadecane

81.2%

37.6-147

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liablity and Chamages, Cardinal's habity and chent's eviduative remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whitsoever shall be determed waited unless made in whong and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequencial damages, including, without limitation, business interruptions, loss of use, or toss of profits incurred by client, its subsidianes, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated massons or otherwise, Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratones.

Colog i treens

Celey D. Keene, Lab Director/Quality Manager

Page 22 of 49



# Analytical Results For:

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

Fax To:

Sampling Date:

11/04/2019

Received: Reported: 11/04/2019 11/07/2019

Sampling Type:

Soil

Project Name:

EBDU #55 NONE GIVEN Sampling Condition:

Cool & Intact

Project Number: Project Location:

EUNICE, NM

Sample Received By:

Tamara Oldaker

# Sample ID: B - 42 @1 (H903754-22)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.386	
Toluene*	<0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.439	
Ethylbenzene*	<0.050	0.050	11/06/2019	ND	1.88	93.9	2.00	0.0117	
Total Xylenes*	<0.150	0.150	11/06/2019	ND	5.60	93.3	6.00	0.141	
Total BTEX	<0.300	0.300	11/06/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	100 9	6 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/06/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2019	ND	210	105	200	0,333	
DRO >C10-C28*	<10.0	10.0	11/05/2019	ND	186	93.2	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	11/05/2019	ND					
Surrogate: 1-Chlorooctane	75,3 5	% 41-142							
Surrogate: 1-Chlorooctadecane	74.0 9	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liabelity and Damages. Cardinal's habelity and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thurty (30) days after completion of the applicable service. In no event shall Cardinal be labtle for incidental demages, including, without limitation, business interruptions, loss of use, or loss of u

Colory " . treens -



### Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

11/04/2019

Reported: Project Name: 11/07/2019 EBDU #55

Project Number: Project Location:

NONE GIVEN EUNICE, NM Sampling Date:

Sampling Type:

11/04/2019

ing Type: Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: B - 43 @1 (H903754-23)

BTEX	80	218	
	_		

ma	1	bee

75.6 %

37.6-147

### Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.386	
Toluene*	<0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.439	
Ethylbenzene*	<0.050	0.050	11/06/2019	ND	1.88	93.9	2.00	0.0117	
Total Xylenes*	<0.150	0.150	11/06/2019	ND	5.60	93.3	6.00	0.141	
Total BTEX	<0.300	0.300	11/06/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/06/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2019	ND	210	105	200	0.333	
DRO >C10-C28*	< 10.0	10.0	11/05/2019	ND	186	93.2	200	7,11	
EXT DRO >C28-C36	<10.0	10.0	11/05/2019	ND					
Surrogate: 1-Chlorooctane	75.6	% 41-142							

Cardinal Laboratories

Surrogate: I-Chlorooctadecane

\*=Accredited Analyte

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

Colog L. trans



### Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

11/04/2019

Reported: Project Name: 11/07/2019 EBDU #55

Project Number:

NONE GIVEN

Sampling Date:

Sampling Type:

Sample Received By:

BS

11/04/2019 Soil

Sampling Condition:

% Recovery

Cool & Intact Tamara Oldaker

RPD

Qualifier

True Value QC

Project Location:

Analyte

EUNICE, NM

Sample ID: B - 44 @1 (H903754-24)

<b>BTEX</b>	80	21	8
-------------	----	----	---

Reporting Limit

Result

### Analyzed By: CK

Method Blank

Analyzed

Benzene*	<0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.386	
Toluene*	<0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.439	
Ethylbenzene*	<0.050	0.050	11/06/2019	ND	1.88	93.9	2.00	0.0117	
Total Xylenes*	<0.150	0.150	11/06/2019	ND	5.60	93.3	6.00	0.141	
Total BTEX	<0.300	0.300	11/06/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.5	% 73.3-129	9						
Chloride, SM4500CI-8	mg,	/kg	g Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chtoride	144	16.0	11/06/2019	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2019	ND	210	105	200	0.333	
DRO >C10-C28*	<10.0	10.0	11/05/2019	ND	186	93.2	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	11/05/2019	ND					
Surrogate: 1-Chlorooctane	66.0	% 41-142							

Cardinal Laboratories

\*=Accredited Analyte

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

Colog I trans



# Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

11/04/2019

Reported:

11/07/2019 EBDU #55

Project Name: Project Number: Project Location:

NONE GIVEN

**EUNICE, NM** 

Sampling Date:

11/04/2019

Sampling Type: Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

# Sample ID: B - 45 @1 (H903754-25)

BTEX 8021B	mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.386	
Toluene*	<0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.439	
Ethylbenzene*	< 0.050	0.050	11/06/2019	ND	1.88	93.9	2.00	0.0117	
Total Xylenes*	<0.150	0.150	11/06/2019	ND	5.60	93.3	6.00	0.141	
Total BTEX	<0.300	0.300	11/06/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	99.8	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/06/2019	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2019	ND	210	105	200	0.333	
DRO >C10-C28*	<10.0	10.0	11/05/2019	ND	186	93.2	200	7.11	
EXT DRO >C28-C36	11.9	10.0	11/05/2019	ND					
Surrogate: 1-Chlorooctane	62.9	% 41-142							
Surrogate: 1-Chlorooctadecane	62.4	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

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

Colog ? trena



# Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 11/04/2019 11/07/2019

Project Name: Project Number: EBDU #55

Project Location:

NONE GIVEN **EUNICE, NM** 

Sampling Date:

11/04/2019

Sampling Type: Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

# Sample ID: B - 46 @1 (H903754-26)

BTEX 8021B	mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.386	
Toluene*	<0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.439	
Ethylbenzene*	<0.050	0.050	11/06/2019	ND	1.88	93.9	2.00	0.0117	
Total Xylenes*	<0.150	0.150	11/06/2019	ND	5.60	93.3	6.00	0.141	
Total BTEX	<0.300	0.300	11/06/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	99.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/06/2019	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2019	ND	210	105	200	0.333	
DRO >C10-C28*	<10.0	10.0	11/05/2019	ND	186	93.2	200	7.11	
EXT DRO >C28-C36	11.9	10.0	11/05/2019	ND					
Surrogate: 1-Chlorooctane	57.3	% 41-142	1						
Surrogate: 1-Chlorooctadecane	57.4	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Labeley and Damages. Cardnal's labelety and client's evidusive remedy for any client ansing, whether based in contract or tort, shall be limited to the amount paid by client for analysiss. All claims, including those for negligence and any other cause whitesoever shall be deemed waved unless made in writing and received by Cardnal within thirty (30) days after completion of the applicable service. In no event shall Cardnal be lable for inoderical or consequential damages, including, without immation, business interruptions, limit of use, or loss of profits incurred by client, its subsidiantes, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims based upon any of the above stated reasons or otherwise. Retails relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Colog i trens



11/04/2019

Cool & Intact

Tamara Oldaker

Soil

# Analytical Results For:

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

11/04/2019 Sampling Date: Reported: 11/07/2019 Sampling Type:

Project Name: EBDU #55 Sampling Condition: Sample Received By:

Project Number: NONE GIVEN Project Location: EUNICE, NM

Sample ID: B - 47 @1 (H903754-27)

Received:

BTEX 8021B	mg/	kg	Analyze	d By: CK					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.386	
Toluene*	<0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.439	
Ethylbenzene*	<0.050	0.050	11/06/2019	ND	1.88	93.9	2.00	0.0117	
Total Xylenes*	<0.150	0.150	11/06/2019	ND	5.60	93.3	6.00	0.141	
Total BTEX	<0.300	0.300	11/06/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/06/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2019	ND	210	105	200	0.333	
DRO >C10-C28*	<10.0	10.0	11/05/2019	ND	186	93.2	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	11/05/2019	ND					
Surrogate: 1-Chlorooctane	73.7	% 41-142	•						
Surrogate: 1-Chlorooctadecane	73.2	% 37.6-14	7						

### **Cardinal Laboratories**

\*=Accredited Analyte

PLEASE NOTE: Liablely and Damages, Cardinal's bablely and cherit's exclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by cleint for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in whining and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be labele for inodental or consequencial damages, including, without limitation, business interruptions, loss of use, or limit of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results related above. This report shall not be reproducted except in full with written approval of Cardinal Laboratones.

Colog i . trans

Celey D. Keene, Lab Director/Quality Manager

Page 28 of 49



# Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

11/04/2019 11/07/2019

Sampling Date: Sampling Type: 11/04/2019

Soil

Reported: Project Name:

EBDU #55 NONE GIVEN

Sampling Condition:

Cool & Intact

Project Number: Project Location:

EUNICE, NM

Sample Received By:

Tamara Oldaker

# Sample ID: B - 48 @1 (H903754-28)

BTEX 80218	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.386	
Toluene*	<0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.439	
Ethylbenzene*	<0.050	0.050	11/06/2019	ND	1.88	93.9	2.00	0.0117	
Total Xylenes*	<0.150	0.150	11/06/2019	ND	5.60	93.3	6.00	0.141	
Total BTEX	<0.300	0.300	11/06/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/06/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2019	ND	210	105	200	0.333	
DRO >C10-C28*	<10.0	10.0	11/05/2019	ND	186	93.2	200	7.11	
EXT DRO >C28-C36	10.8	10.0	11/05/2019	ND					
Surrogate: 1-Chlorooctane	67.8	% 41-142	?						
Surrogate 1-Chlorooctadecane	66.6	% 37,6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

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

Colog i trans



### Analytical Results For:

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

Fax To:

(575) 393-2432

Sampling Date:

11/04/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Project Number:

Project Name:

Received:

Reported:

11/07/2019 EBDU #55

11/04/2019

Sample Received By:

Tamara Oldaker

Project Location:

NONE GIVEN EUNICE, NM

62.9 %

37.6-147

Sample ID: B - 49 @1 (H903754-29)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.386	
Toluene*	<0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.439	
Ethylbenzene*	<0.050	0.050	11/06/2019	ND	1.88	93.9	2.00	0.0117	
Total Xylenes*	<0.150	0.150	11/06/2019	ND	5.60	93.3	6.00	0.141	
Total BTEX	<0.300	0.300	11/06/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/06/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2019	ND	210	105	200	0.333	
DRO >C10-C28*	< 10.0	10.0	11/05/2019	ND	186	93.2	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	11/05/2019	ND					
Surrogate: 1-Chlorooctane	63.5	% 41-142	?						

# Cardinal Laboratories

Surrogate: I-Chlorooctadecane

\*=Accredited Analyte

PLEASE NOTE: Uabdity and Damages. Cardinal's bability and chenits e-cluster emedy for any dam ansing, whether based in contract or tort, shall be limited to the amount paid by clent for analyses. All claims, including those for negligence and any other cause whistoever shall be idented waved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event phall Cardinal be lable for inoderital or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by cleint, its subclasines, affiliation or successors aroung out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the sampless identified above. This report shall not be reproduced incapt in full with writina approval of Cardinal Laboratomes.

Colog i treas



# Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 11/04/2019 11/07/2019

Project Name:

EBDU #55 NONE GIVEN

Project Number: Project Location:

EUNICE, NM

Sampling Date:

11/04/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: B - 50 @1 (H903754-30)

BTEX 8021B	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.386	
Toluene*	<0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.439	
Ethylbenzene*	<0.050	0.050	11/06/2019	ND	1.88	93.9	2.00	0.0117	
Total Xylenes*	<0.150	0.150	11/06/2019	ND	5.60	93.3	6.00	0.141	
Total BTEX	<0.300	0.300	11/06/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.0	% 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	288	16.0	11/06/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2019	ND	210	105	200	0.333	
DRO >C10-C28*	<10.0	10.0	11/05/2019	ND	186	93.2	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	11/05/2019	ND					
Surrogate: 1-Chlorooctane	62.1	% 41-142							
Surrogate: 1-Chlorooctadecane	63.0	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liabetry and Damages. Cardinal's kablety and client's exclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed vivived unlies made in whiting and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be labele for incidental or consequential damages, including, without kiniation, business interruptions, loss of use, or loss of profits incurred by client, its subsidianes, affiliates or successors aroung 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 Liaboratones.

College themas

Celey D. Keene, Lab Director/Quality Manager

Page 31 of 49



# Analytical Results For:

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

Гал

Received: 11/04/2019 Reported: 11/07/2019

Project Name: EBDU #55
Project Number: NONE GIVEN

Project Location: EUNICE, NM

Sampling Date:

11/04/2019

Sampling Type: S

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

## Sample ID: B - 51 @1 (H903754-31)

BTEX 8021B	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.386	
Toluene*	<0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.439	
Ethylbenzene*	<0.050	0.050	11/06/2019	ND	1.88	93.9	2.00	0.0117	
Total Xylenes*	< 0.150	0.150	11/06/2019	ND	5.60	93.3	6.00	0.141	
Total BTEX	<0.300	0.300	11/06/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.8	% 73,3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	11/06/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2019	ND	210	105	200	0.333	
DRO >C10-C28*	<10.0	10.0	11/05/2019	ND	186	93.2	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	11/05/2019	ND					
Surrogate: 1-Chlorooctane	89.2	% 41-142							
Surrogate: 1-Chlorooctadecane	88.6	% 37.6-14	7						

# Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liablety and Damages. Cardinal's liablety and dirent's exclusive remedy for any claim ansing, whether based in contract or tort, shall be lented to the amount paid by client for analyses. All claims, including those for negligence and any other claims whatsoever shall be deemed waived unless made in whing and received by Cardinal within thinty (30) days after completion of the applicable service. In no event shall Cardinal be liable for inodential or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidianes, affliates or successors anising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laborationes.

Colog ? treens

Celey D. Keene, Lab Director/Quality Manager

Page 32 of 49



# Analytical Results For:

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

Fax To:

Sampling Date:

11/04/2019

Reported:

Received:

11/04/2019 11/07/2019

Sampling Type:

Soil

Project Name: Project Number: EBDU #55 NONE GIVEN Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Location:

EUNICE, NM

nnie ID: B - 52 @1 (H903754-32)

Sample	IV.	D	32	GD X	(11303	/ 37

BTEX 8021B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.386	
Toluene*	<0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.439	
Ethylbenzene*	<0.050	0.050	11/06/2019	ND	1.88	93.9	2.00	0.0117	
Total Xylenes*	<0.150	0.150	11/06/2019	ND	5.60	93.3	6.00	0.141	
Total BTEX	<0.300	0.300	11/06/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	100	% 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	160	16.0	11/06/2019	ND	416	104	400	0.00	
TPH 8015M	mg.	/kg	Analyze	d By: CK			<del>-</del>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2019	ND	210	105	200	0.333	
DRO >C10-C28*	<10.0	10.0	11/05/2019	ND	186	93.2	200	7.11	
EXT DRO >C28-C36	14.1	10.0	11/05/2019	ND					
Surrogate: 1-Chlorooctane	84.9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	84.0	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

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

Color Litima



# Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 11/04/2019 11/07/2019

Project Name:

EBDU #55 NONE GIVEN

Project Number: Project Location:

EUNICE, NM

Sampling Date:

11/04/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: B - 53 @1 (H903754-33)

BTEX 8021B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.386	
Toluene*	<0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.439	
Ethylbenzene*	<0.050	0.050	11/06/2019	ND	1.88	93.9	2.00	0.0117	
Total Xylenes*	<0.150	0.150	11/06/2019	ND	5.60	93.3	6.00	0.141	
Total BTEX	<0.300	0.300	11/06/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	99.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/06/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2019	ND	210	105	200	0.333	
DRO >C10-C28*	<10.0	10.0	11/05/2019	ND	186	93.2	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	11/05/2019	ND					
Surrogate: 1-Chlorooctane	73.9	% 41-142							
Surrogate: 1-Chlorooctadecane	73.7	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

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

adag i trans

Celey D. Keene, Lab Director/Quality Manager

Page 34 of 49



# Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 11/04/2019 11/07/2019

Project Name: Project Number:

Project Location:

EBDU #55 NONE GIVEN **EUNICE, NM** 

Sampling Date:

11/04/2019

Sampling Type:

Soil Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: B - 54 @1 (H903754-34)

BTEX 8021B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.386	
Toluene*	<0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.439	
Ethylbenzene*	<0.050	0.050	11/06/2019	ND	1.88	93.9	2.00	0.0117	
Total Xylenes*	<0.150	0.150	11/06/2019	ND	5.60	93.3	6.00	0.141	
Total BTEX	<0.300	0.300	11/06/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/06/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2019	ND	210	105	200	0.333	
DRO >C10-C28*	<10.0	10.0	11/05/2019	ND	186	93.2	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	11/05/2019	ND					
Surrogate: 1-Chlorooctane	92.0	% 41-142							
Surrogate: 1-Chlorooctadecane	91.5	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

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

Colog I trans-

Celey D. Keene, Lab Director/Quality Manager

Page 35 of 49



# Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 11/04/2019 11/07/2019

Project Name: Project Number:

Project Location:

EBDU #55 NONE GIVEN EUNICE, NM

Sampling Date:

11/04/2019 Soil

Sampling Type: Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

# Sample ID: B - 55 @1 (H903754-35)

BTEX 8021B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.386	
Toluene*	<0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.439	
Ethylbenzene*	<0.050	0.050	11/06/2019	ND	1.88	93.9	2.00	0.0117	
Total Xylenes*	<0.150	0.150	11/06/2019	ND	5.60	93.3	6.00	0.141	
Total BTEX	<0.300	0.300	11/06/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/06/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2019	ND	210	105	200	0.333	
DRO >C10-C28*	<10.0	10.0	11/05/2019	ND	186	93.2	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	11/05/2019	ND					
Surrogate: 1-Chlorooctane	90.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	89.7	% 37.6-14	17						

### Cardinal Laboratories

\*=Accredited Analyte

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

College I streems -



# Analytical Results For:

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

Received:

11/04/2019 11/07/2019

Reported: Project Name:

EBDU #55 NONE GIVEN

Project Number: Project Location:

NONE GIVEN

Sampling Date:

Sampling Type:

11/04/2019 Soil

ing Type:

Cool

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

# Sample ID: B - 56 @1 (H903754-36)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.386	
Toluene*	<0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.439	
Ethylbenzene*	<0.050	0.050	11/06/2019	ND	1.88	93.9	2.00	0.0117	
Total Xylenes*	<0.150	0.150	11/06/2019	ND	5.60	93.3	6.00	0.141	
Total BTEX	<0.300	0.300	11/06/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100 5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/06/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2019	ND	210	105	200	0.333	
DRO >C10-C28*	< 10.0	10.0	11/05/2019	ND	186	93.2	200	7.11	
EXT DRO >C28-C36	<10.0	10.0	11/05/2019	ND					
Surrogate: 1-Chlorooctane	77.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	76.5	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's eviduality remody for any claim arising, whether based in contract or tort, shall be limited to the amount paid by chert for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed warved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incident, its subsidiaries, affiliates or successors among out of or related to the performance of the services hereander by Cardinal, regardless of whether such idlams to 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 Libourstones.

align trema



### Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 11/04/2019 11/07/2019

Project Name: Project Number: EBDU #55 NONE GIVEN

Project Location:

EUNICE, NM

108 %

113%

41-142

37.6-147

Sampling Date:

11/01/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: W - 1 @1 (H903754-37)

mg/	kg	Analyze	d By: CK					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.386	
<0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.439	
<0.050	0.050	11/06/2019	ND	1.88	93.9	2.00	0.0117	
<0.150	0.150	11/06/2019	ND	5.60	93.3	6.00	0.141	
<0.300	0.300	11/06/2019	ND					
99.69	% 73.3-12	9						
mg/	kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
192	16.0	11/06/2019	ND	416	104	400	0.00	
mg/	kg	Analyze	d By: CK					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	11/06/2019	ND	210	105	200	1.07	
<10.0	10.0	11/06/2019	ND	210	105	200	1,93	
		44 105 10040	ME					
	Result <0.050 <0.050 <0.050 <0.150 <0.300  99.69 mg/ Result 192 mg/ Result <10.0 <10.0	<0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150 <0.300 0.300  99.6 % 73.3-12 mg/kg  Result Reporting Limit 192 16.0 mg/kg  Result Reporting Limit <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

Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

PLEASE NOTE: Lisbisky and Damages. Cardinal's liabisky and chem's exclusive remedy for any claim ansing, whether based in contract or tord, shall be limited to the amount paid by clent for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed wanted unless made in writing and incovered by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for inoderital or consequential damages, including, without imitation, business interruptions, loss of use, or loss of just, or loss of profits incurred by clern, its subsidiances, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based injust any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratones.

Colog i trans



# Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 11/04/2019 11/07/2019

Project Name: Project Number: Project Location: EBDU #55 NONE GIVEN EUNICE, NM

Sampling Date:

11/01/2019 Soil

Sampling Type: Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: W - 2 @1 (H903754-38)

BTEX 8021B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.386	
Toluene*	<0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.439	
Ethylbenzene*	<0.050	0.050	11/06/2019	ND	1.88	93.9	2.00	0.0117	
Total Xylenes*	<0.150	0.150	11/06/2019	ND	5.60	93.3	6.00	0.141	
Total BTEX	<0.300	0.300	11/06/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	100	% 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	192	16.0	11/06/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2019	ND	210	105	200	1.07	
DRO >C10-C28*	<10.0	10.0	11/06/2019	ND	210	105	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	11/06/2019	ND					
Surrogate: 1-Chlorooctane	106	% 41-142							
Surrogate: 1-Chlorooctadecane	110	% 37.6-14	7						

### Cardinal Laboratories

\*=Accredited Analyte

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

Colory L' trans-

Celey D. Keene, Lab Director/Quality Manager

Page 39 of 49



# Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 11/04/2019 11/07/2019

Project Name: Project Number: EBDU #55 NONE GIVEN

Project Location:

EUNICE, NM

Sampling Date:

11/01/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: W - 3 @1 (H903754-39)

BTEX	8021	8
------	------	---

-	L-a
шч	

113%

37.6-147

### Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.386	
Toluene*	<0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.439	
Ethylbenzene*	<0.050	0.050	11/06/2019	ND	1.88	93.9	2.00	0.0117	
Total Xylenes*	<0.150	0.150	11/06/2019	ND	5.60	93.3	6.00	0.141	
Total 8TEX	<0.300	0.300	11/06/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	99.4	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Anatyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/06/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2019	ND	210	105	200	1.07	
DRO >C10-C28*	<10.0	10.0	11/06/2019	ND	210	105	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	11/06/2019	ND					
Surrogate 1-Chlorooctane	109	% 41-142	1						

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

PILEASE NOTE: Liabority and Damages. Caronian's salestly and clearity exclusive remedy for any other missed, whether lossed in correct or corr, shall be immissed to the amount pent by Clerin for analyses. An Dalmis, including increase not remay the missed whatsoever shall be deemed welved unless made in winding and necessed by Caronial white there is a subsidiary of the applicable service. In no event shall Caronial be liable for incidental or consequential damages, including, wethout limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliated or successors aning out of or related to the performance of the services hereunder by Caronial, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Caronial Laborationes.

alog Z. time

Celey D. Keene, Lab Director/Quality Manager

Page 40 of 49



# Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

11/04/2019

Reported: Project Name: 11/07/2019 EBDU #55 NONE GIVEN

Project Number: Project Location:

EUNICE, NM

Sampling Date:

11/04/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: W - 4 @1 (H903754-40)

BTEX 8021B	mg,	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.386	
Toluene*	<0.050	0.050	11/06/2019	ND	1.84	91.8	2.00	0.439	
Ethylbenzene*	<0.050	0.050	11/06/2019	ND	1.88	93.9	2.00	0.0117	
Total Xylenes*	<0.150	0.150	11/06/2019	ND	5.60	93.3	6.00	0.141	
Total BTEX	<0.300	0.300	11/06/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.4	% 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	48.0	16.0	11/06/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2019	ND	210	105	200	1.07	
DRO >C10-C28*	<10.0	10.0	11/06/2019	ND	210	105	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	11/06/2019	ND					
Surrogate: 1-Chlorooctane	106	% 41-142							
Surrogate: I-Chlorooctadecane	111 9	% 37.6-14	7						

## Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's bability and Client's exclusive remedy for any client arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negispence an any other cause whatsoever shall be deemed waved unless made in whiting and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be lable for incidental or consequential damages including, without limitation, business interruptions, loss of use, or loss of use, or loss of profits incurred by chert, its subsidiances, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether successors arising the services hereunder by Cardinal, regardless of whether successors arising the services hereunder by Cardinal services hereunder by C

Cologi trena

Celey D. Keene, Lab Director/Quality Manager

Page 41 of 49



# Analytical Results For:

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

Fax To:

41-142

37.6-147

93.3 %

97.3 %

(575) 393-2432

Analyzed By: CK

Received: Reported:

**BTEX 8021B** 

11/04/2019 11/07/2019

EBDU #55

Project Name: Project Number:

NONE GIVEN

Sampling Date:

11/04/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact Tamara Oldaker

Sample Received By:

Project Location:

EUNICE, NM

mg/kg

Sample ID: W - 5 @1 (H903754-41)

				<u> </u>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2019	ND	1.81	90.7	2.00	6.60	
Toluene*	<0.050	0.050	11/05/2019	ND	1.82	90.8	2.00	6.49	
Ethylbenzene*	<0.050	0.050	11/05/2019	ND	1.84	92.2	2.00	6.38	
Total Xylenes*	<0.150	0.150	11/05/2019	ND	5.48	91.3	6.00	6.63	
Total BTEX	<0.300	0.300	11/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.9 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/06/2019	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2019	ND	210	105	200	1.07	
DRO >C10-C28*	<10.0	10.0	11/06/2019	ND	210	105	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	11/06/2019	ND					

### Cardinal Laboratories

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

PLEASE NOTE: Liabship and Damages. Cardinal's liabship and chenit's exclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed warred unless made in whong and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for encidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of use,

Cologi trans



### Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 11/04/2019 11/07/2019

Project Name: Project Number: EBDU #55 NONE GIVEN

Project Location:

EUNICE, NM

Sampling Date:

11/04/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: W - 6 @1 (H903754-42)

BTEX 8021B	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2019	ND	1.81	90.7	2.00	6.60	
Toluene*	<0.050	0.050	11/05/2019	ND	1.82	90.8	2.00	6.49	
Ethylbenzene*	<0.050	0.050	11/05/2019	ND	1.84	92.2	2.00	6.38	
Total Xylenes*	<0.150	0.150	11/05/2019	ND	5.48	91.3	6.00	6.63	
Total BTEX	<0.300	0.300	11/05/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	99.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/06/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/06/2019	ND	210	105	200	1.07	
DRO >C10-C28*	<10.0	10.0	11/06/2019	ND	210	105	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	11/06/2019	ND					
Surrogate: 1-Chlorooctane	93.9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	96.8	% 37,6-14	7						

## **Cardinal Laboratories**

\*=Accredited Analyte

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

Colory I trans

Celey D. Keene, Lab Director/Quality Manager

Page 43 of 49



### **Notes and Definitions**

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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 SM4500CFB does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

\*=Accredited Analyte

PLESE NOTE: Liablety and Damages. Cardinal's liablety and client's evolutive remedy for any dawn ansing, whether based in contract or tort, shall be lamited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty [30] days after completion of the applicable service. In no event shall cardinal be liable for incidental or consequential damages, uncluding, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiances, affiliates or successions arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims blasted upon any of the above stated relations or otherwise.

Colog L. trans

Celey D. Keene, Lab Director/Quality Manager

Page 44 of 49

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: APAULE Corporation	pertion	BIALIO	ANALYSIS	TO RECORD
Project Manager: Jeff Boom /	SETT BOOM / STILLE BATTER	P.O. #:		
Address:	entering the state of the state	Company:		
City:	State: Zip:	Attn:		
Phone #:	Fax 非:	Address:		
	Project Owner:	City:		
Project Name: 尼別 井 S S		State: Zip:		
9		Phone #:		
Sampler Name: Panel Rasler				
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	.NG	
	(C)OMP IERS VATER		TPH (	
Lab I.D. Sample I.D.	(G)RAB OR # CONTAINS GROUNDW. WASTEWAT SOIL OIL SLUDGE	OTHER: ACID/BASE ICE / COOL OTHER:	Cl	
18-21-24			1:35 11/11	
7 322 27				
1, 30 mm		*	30	
S D-25@1			1:32	
16			77	
10881 8			138 11 11	
7 32-2007		IIIJIII	1	
PLEASE NOTE: Liability and Damages. Cardinal's liability a analyses. All claims including those for negligence and any o	PLEASE NOTE: Labble and Damages. Cardina's labbley and client's exclusive ramedy for any claim arking whether based in contract or lort, shall be limited to the amount plad by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and recovered by Cardinal within 30 days after completion of the applicable	act or tort, shall be limited to the amount paid and received by Cerdinal within 30 days after	by the client for the completion of the applicable	
genice. In no event shall Cardinal be issue for incurrent or affiliates or successors arising out of or related to the perform	cunder by Car	um is based upon any of the above stated rea	it: U Yes	10 #:
Relinguished By:	Date: 4-19 Received By:		are emailed. Please pro	ddress:
Relinquished By:	Date: Received By:	Saldar Sk	REMARKS: Winity OILticle Sc	idoservices com
	Time:			The state of the s
Delivered By: (Circle One)	Observed Temp. °C /. 8 Sample Condition Cool Intact	CHECKED BY: (Initials)	Turnaround Time: Standard Sac Rush Coo	Bacteria (only) Sample Condition  Cool Intact Observed Temp. *C
Sampler - UPS - Bus - Other:	Corrected Temp. °C 2.2 Pres Pres	is YO.	Thermometer ID #97 Correction Factor + 0.4 °C	No No Corrected Temp. *C

Observed Temp. °C 1.8 Corrected Temp. °C 2.2

Sample Condition
Cool Intact
Pres Pres
No No No

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476		ANALYSIS RECIEST
Company Name: APACHE 10170/24101	BILLIO	ANALISIS
30	P.O. #:	
	Company:	
City: State:	Zip: Attn:	
Phone #: Fax #:	Address:	
Project #: Project Owner:	City:	
Project Name: EBDV #55	State: Zip:	
Project Location: Funce, MM	Phone #:	
	Fax #:	
FOR LAB USE ONLY	MATRIX PRESERV.	SAMPLING S
Lab I.D. Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER ACID/BASE ICE / COOL OTHER	CL EXT. TP
1183167		The Control of the Co
1 Jan. C. C.		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
1305 2 4		1350
15 0 3601		100
12 22 20 T		150
18 W-367		11258 11111
W		0.0
PLEASE NOTE: Liability and Dismages, Cardinal's liability and client's exclusive remedy for any claim and/og whether based in contract or for, shall be limited to and any other cause whatsoe we shall be deemed waved unless made in writing and received by Cardinal within 30 days after completion of the applicable snalyses. All claims including those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within 30 days after completion of the applicable snalyses. All claims including those for negligence and any other cause whatsoever shall be deemed watered unless made in writing and received by Cardinal within 30 days after completion of the applicable.	any claim a string whether based in contract or tort, shall be limited to the andient is et depend valued unless made in writing and received by Cardinal within 30 days a chan who at limitation, hustiness returnations, loss of use, or loss of profits incurred to	Influent past by the client for the 0 days after completion of the applicable completion of the applicable curred by client, its subsidiaries.
aritiages or successors ariting out of participation to the performance of services hereunder by Re-lineuristical BV	ite: Received By:  Received By:	:: 
The Misses By:  Date: Date: 25	0	BEA & Trinity Official Services. com
Time:		Ĺ
Delivered By: (Circle One) Observed Temp. *C	1.8 Sar	Turnaround Time: Standard Bacteria (only) Sample Condition Cool Intact Observed Temp. *C
Sampler - UPS - Bus - Other: Corrected Temp. *C 2. 2		Thermometer ID #97 Correction Factor + 0.4 °C No No Corrected Temp. °C

PORM-006 R 3.0

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(010) 000-1010	1707 (010) 000 = 110		ANALYSIS BEOLIEST
Company Name: ARMINE C	CORPORATION	DILL TO	
Project Manager: Left Broom	n/Bruse Butter	P.O. #:	
Address:		Company:	
City:	State: Zip:	Attn:	
Phone #:	Fax #:	Address:	
Project #:	Project Owner:	City:	
Project Name: FBN #55		State: Zip:	
Project Location: Funce, NM		Phone #:	
		1	
	S ER	PARTORIA	TPH
Lab I.D. Sample I.D.	(G)RAB OR (C) # CONTAINER: GROUNDWAT! WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: DATE	EXTIT
1311-4101		bilhia	2:03
4.9CH EL EVE			
23 15-4361			7.6.7
1. Juh. 91 50			
105 10 S			
1001900			W/// 85.56
B			2:35
1.00 × 10 × 10 × 10 × 10 × 10 × 10 × 10		ıljulla	407 1
PLEASE NOTE: Lability and Damages. Cardinal's liability analyses. At claims including those for negligence and an service in no event shall cardinal be liable for incidental or	PLEASE NOTE: Lability and Damayes. Cardinal's lability and client's exclusive ennesty for any datin storag whether based in contract or lon, shall be initiated to the amount paid by the client to me analyses. All claims including those for neptigence and any other couse whateover shall be deemed valued unless made in writing and received by Cardinal within 30 days after compretion of the applicable analyses. All claims including those for neptigence and any other couse whateover shall be deemed white of the shall cardinal be labele for neptigence special entire and with the shall cardinal be labele for neptigence special entire special writing the shall cardinal be labele for neptigence special entire shall be deemed by the shall cardinal be labele for neptigence of the shall be deemed and the shall be deemed a	tract or ton, shall be limited to the amount paid g and received by Cardinal within 30 days after ons, loss of war, or loss of profits incurred by di	y ne clert to the common to th
Relinquished By:	Relinquished By:  Time: 25  Reflinquished By:  Pate: Received By:  Pate: Received By:  Pate: Received By:  Received By:  Pate: Received By:  Received By:  Pate: Received By:	3 Malakye	Vertal Result: Pes No Add'I Phone #: All Results are emailed. Please provide Email address: Ben a Trinity difficial Services Lon REMARKS:
	Time:		
Delivered By: (Circle One)	Observed Temp. °C /. 8 Sample Condition	CHE	Turnaround Time: Standard
Sampler - UPS - Bus - Other:	Corrected Temp. C. Q. Q. D. I.S. D. I.	No You	Correction Factor + 0.4 °C

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

(5/5) 393-2326	575) 393-2326 FAX (3/3) 393-24/6		
Company Name: Afficing Col.	(Offeration	8/1170	ANALTOIS REAGES
Project Manager: SC+ Brown	n/13ruse Balter	P.O. #:	
Address:		Company:	
City:	State: Zip:	Attn:	
Phone #:	Fax#:	Address:	
Project #:	Project Owner:	City:	
Project Name: FBN #55		State: Zip:	
		Phone #:	
Sampler Name: Lanic Rusier		1	
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	6
Lab I.D. Sample I.D.	AB OR (C)OM ONTAINERS OUNDWATER STEWATER	IER : D/BASE: / COOL	L STEX
42434	# CO	OTH	TIME
3 3.5162		2 h/L/II	
Bec. al			
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			0.12 NWN
1,055-2158		4	4:17
1975-8 9E		100	
1 3 - N XX			123 VK/7/
39 W-36 1		11/11/19	
PLEASE NOTE: Liability and Damages. Cardinal's liability analyses. All claims including those for negligence and arr	PLEASE NOTE: Lability and Damages. Cardinat's liability and client's orchasive remody for any claim arising whether based in contract or for, shall be immited to the arrival to particular	nect or tort, shall be limited to the amount paid be and received by Cardinal within 30 days after or and received by the	wholim paid by the client for the document of the applicable document of the applicable completion of the applicable cured by client of the applicable.
service. In no event shall Cantinal be table for incidental o	service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, tops or use, or loss or previous formations or or consequental damages, including without limitation, business interruptions, tops or use, or loss or previous formations or or consequently or an event of the above stated reasons or otherwise.	im is based upon any of the above stated reas-	
Relinquished By:		Make	Verbal Result: Tyes No Add'l Phone #: All Regults are emailed. Please provide Email address:  Ken Win't Yol' field Sivies & Com REMARKS:
or and a second	14	. (	
Delivered By: (Circle One)	Observed Temp. *C 1.8 Sample Condition	CHECKED BY: (Initials)	Standard
Sampler - UPS - Bus - Other:	S S	- K	Thermometer ID #97

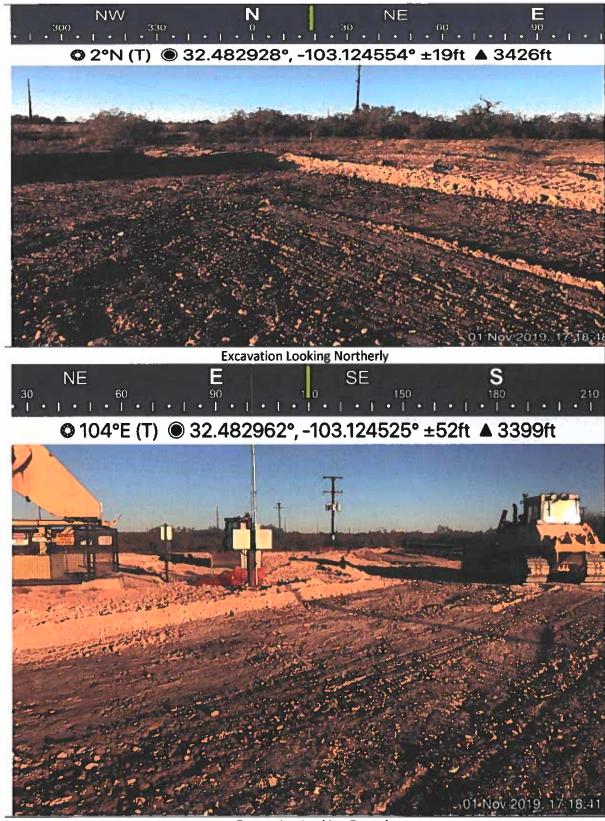
Sampler - UPS - Bus - Other: FURW-UGG K 3.0

# Page 49 of 49 **CARDINAL** Laboratories

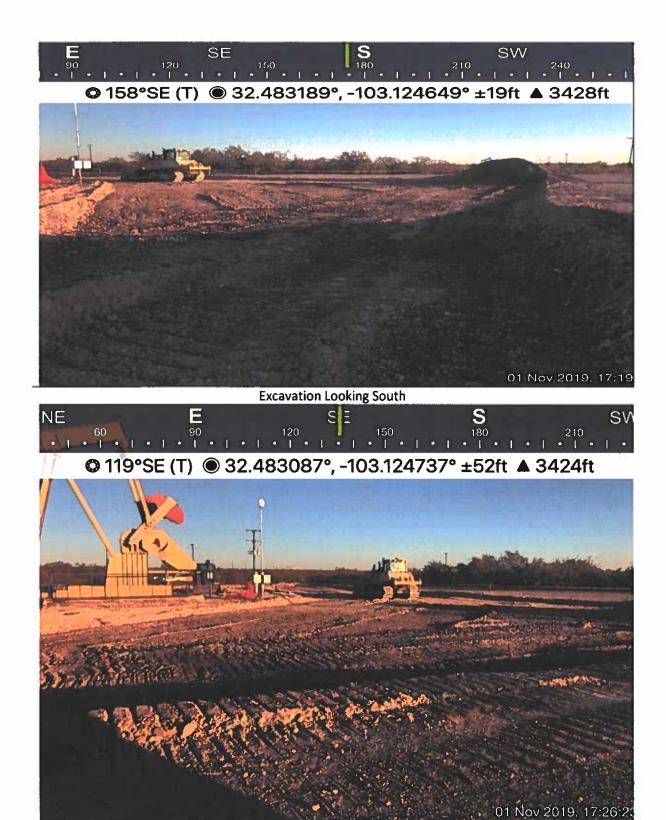
# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(0,0)	2-1-0-0 (a. a) and		
Company Name: Affactive	France corporation	BILL 10	ANALIGIO ZERGEGO
Project Manager: Tett	SEFF Brown / Bruce Barner	P.O. #:	
Address:		Company:	
City:	State: Zip:	Attn:	
Phone #:	Fax #:	Address:	
Project #:	Project Owner:	City:	
ame: FBI	V #857	State: Zip:	
e E	cute um	Phone #:	
1	Raskel	1	
7	- 1	MATRIX PRESERV. SAMPLING	6
_	ATER		TPH/
Lab i.D. S	Sample I.D.	DGE IER : D/BASE / COOL	L 3712,
4255754	(G)RA # CON GROU	ICE/	CC E,
1 W-2	64	12 miles	
4. M. 9-M 74	4	21/4///	
		a production of the state of th	
PLEASE NOTE: Lability and Damages, Card analyses. All claims including those for regilp senses. In no avent shall Cardinal be liable for	PLEASE ROTE: Libbley and Damages, Cardnal's liabely and clem's exclusive imments to early written consover a comment of the applicable analyses. All claims including those for regitigance and any other cause whatever shall be deemed wained unless made in writing and included within 30 days after completion of the applicable analyses. All claims including those for regitigance and any other cause whatever shall be deemed wained unless made in writing and including within 30 days after completion of the applicable analyses. All claims including and cardinal be liable for inclental within 30 days after completion of the applicable analyses. Including without finished, but how some analysis of use or less of profes including the consequent and analysis of the completion of the applicable.	made in whing and received by Cardinal within 30 days after cor- ness interruptions, loss of use, or less of profes incurred by client	nuetion of the applicable its substitutions.
Relinguished By:	Inflates or successors arising out of greated to the performance of services hercurger by Cadelali, regardless of whether such catain is cassed upon any or one soon service and services hercurger by Cadelali, regardless of whether such catain is cassed upon any or one soon services.  Verbal Results:  All Results:	With the second	Verbal Result: ☐ Yes ☐ No Add'! Phone #:  All Results are emailed. Please provide Email address:
trill Make	Times 25 1	mora dellator	REMONITY Of Field Services.com
Relinquished By:	Time:	*	
Delivered By: (Circle One)	Observed Temp. °C /. 8 Si	Sample Condition CHECKED BY: Tu	Turnaround Time: Standard Bacteria (only) Sample Condition  Cool Intact Observed Temp. °C
Sampler - UPS - Bus - Other:	Corrected Temp. *C 2.2	es Gres	☐ Yes ☐ Yes



**Excavation Looking Easterly** 



**Excavation Looking Southeast** 



**Restored Pad looking Northeast** 



**Restored Pad Looking Northwest**