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DAVID FLATHER ENVIRONMENTAL SUPERVISOR DIRECT (J32) 818-1615 U-MAIL DAVID FLATHER@APACHECORP COM

November 7, 2019

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

RE: 1RP-1214 NEDU 704

Mr. Billings,

In compliance with 19.15.29.15(B) NMAC and the agreement submitted by Apache Corporation on November 8, 2018, Apache Corporation is submitting information related to closure for the release occurring September 18, 2003. Apache is respectfully submitting the closure report based on studies occurring in 2019 that demonstrate the site meeting the requirements of the agency. Unless further information is requested by NMOCD, Apache Corporation considers this release closed.

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

Sincerely,

David Feather Environmental Supervisor Apache Corporation - Permian Basin Region

Attachment: Closure Report Dated November 7, 2019

APACHE CORPORATION - PERMIAN BASIN RUGION - 303 VETERANS AIRPARK EANE, STE 3000, MIDLAND, TEXAS 79705

Trinity Oilfield Services & Rentals, LLC

Company: Apache Corporation Address: 2530 W Marland St., Hobbs, NM 88240 Telephone #: (575) 393 7106_ Site Name: _Northeast Drinkard Unit 704 (NEDU 704) NMOCD Reference#: 1RP-1214
 Surface Owner:
 Millard Deck Estate (rep_L.V. "Flap" Sims II)
 Mineral Owner:
 BLM

 Unit Letter:
 M______Section:
 15______Township:
 T21S______Range:
 R37E
 County:
 Lea
 GPS Coordinates: <u>32.474528</u> N, <u>-103.152899</u> W Date/Time of Release: <u>9/18/2003</u> __ Crude Oil Type of Release: _ X Produced Water Volume(s) Recovered: _ 0.0 bbl Volume(s) Released: _500 bbl___ Closure Criteria for Impacted Soil (mg/kg; See Appendix F, "Closure Criteria Justification"): TPH: <u>X</u> 100 _____ 2,500 Benzene: <u>10</u> BTEX: <u>50</u> GRO+DRO: ____ Chloride: <u>X</u> 600 _____ 10,000

Background Information:

On September 18, 2003, Apache Corporation (Apache) discovered a release at a 2-inch diameter fiberglass water injection line. An estimated 500 barrels (bbls) of produced water was released to a well pad and pasture area. An estimated 102,527 square feet (sq. ft.) of pad and pasture area were impacted by the release. None of the released water was recovered. No information is available regarding the cause of the line that the line failure other than the incident was being investigated. The line was subsequently repaired.

20,000

The release was reported to the New Mexico Oil Conservation Division's (NMOCD) Hobbs District Office on September 18, 2003. A "Site Location Map" is provided as Figure 1. The initial NMOCD "Release Notification and Corrective Action" form (C-141) is provided as Appendix A. The final C-141 form is provided in Appendix B.

Environmental Plus, Inc. (EPI) was contracted by Apache to perform an environmental investigation and remedial tasks for the site. Historic documentation provided by Apache shows that EPI submitted the initial C-141 form to NMOCD on September 19, 2003. The letter discussed the estimated depth to groundwater as 63 feet below ground surface (bgs) and that the NMOSE database showed that no water wells existed within ¼ mile of the release. A release site location map with the 3 referenced wells is provided. The EPI letter goes on to say that a remediation plan will be developed and submitted to NMOCD to address issues identified during vertical and horizontal delineation of contaminates of concern (COC's) at the site. Chloride, Total Petroleum Hydrocarbons (TPH), Benzene, and Benzene, Toluene, Ethylbenzene and Xylene (BETX). The initial C-141 form was attached to the letter. No other information from EPI appears to be available in the historic records provided by Apache.

Documentation with an Apache logo in the header was presented with the historic papers. An Apache form with site information and metrics is provided. A line map shows the origin of the release and some relevant site features. On another map, the line map is overlain on aerial photography. The total area affected by the spill is 102,527 square feet (sq. ft.). Photography of the release is provided. Google Earth aerial photography is provided from 2009 and 2019 showing four sample locations. No other historic documentation was provided by Apache. All available historic information for the NEDU 704 site is provided as Appendix C.

No information regarding the historical remedial action (no delineation, no remediation, no photography and no contaminated soil disposition information) is available for this site.

On July 25, 2019, Apache requested that Trinity Oilfield Services and Rentals, LLC (Trinity), assume any remaining remediation and reporting activities for the site.

Summary of Trinity Field Activities:

On August 22, 2019, Trinity mobilized a sampling crew to assess the current conditions at the NEDU 704 site. A stainless-steel spatula was utilized to collect surface samples while a hand auger was utilized to collect soil samples to refusal at a depth of one-foot at locations SP-1 through SP-3. A surface sample and samples at 1-foot intervals to a depth of three feet bgs were collected at SP-4 using the same tools. A total of 10 samples were collected from four sampling locations. The location of the four sample points is shown on Figures 2 and 3. Samples were placed on ice in a cooler following sampling and a chain of custody was written and used to convey the samples to the laboratory. All sample locations appear to be at approximately the same points at the chloride sampling points tested by others in 2008.

All samples were tested for chloride, TPH and BTEX at Cardinal Laboratories of Hobbs, NM, a NMOCD approved analytical laboratory using United States Environmental Protection Agency (USEPA) Methods 4500-Cl B for chloride, SW 846-8015 Mod for TPH [including extended diesel range organics (EX DRO)] and SW 846-8021B for BTEX. Results of analyses for these samples is provided in Table 1. Chloride ranged between values below the method detection level (MDL) to 64 mg/kg in sample SP-1 at 1 foot. TPH results were all below the MDL except for SP-3 at one-foot bgs. Sample SP-3 at one-foot yielded a sample result for diesel range organics (DRO) of 138 mg/kg. The Extended DRO (EXT DRO) analysis yielded a value of 95.9 mg/kg. Total TPH for the sample is 233.9 mg/kg which is above the Table 1 limit of 100 mg/kg where the depth to groundwater is less than 50 feet bgs.

Photography of current site conditions is provided as Appendix D.

Site Closure Request

Soil Samples collected from the inferred impacted area were analyzed by a NMOCD approved laboratory. Concentrations of Chloride, TPH and BTEX from sample points SP-1, SP-2 and SP-4 were below the closure criteria parameters listed in Table 1 of Section 19.15.29.12 of the New Mexico Administrative Code (NMAC) for a site where the depth to groundwater is between 0 and 50 feet bgs. At sample point SP-3 at one-foot bgs, DRO (C10-C28) and EXT DRO (C28-C36) yielded lab analytical values of 138 mg/kg and 95.9 mg/kg respectively. TPH for this sample is 233.9 mg/kg which is over double the allowable value for TPH where the depth to groundwater is less than 50 feet bgs. The depth to groundwater averages 39.8 feet bgs within a one-half mile radius of the site. (See Appendix F, "Closure Criteria Justification" for more information). Lab results for all samples yielded results that were below the MDL for all BTEX constituents. Based on these laboratory analytical results, the initial response and subsequent actions conducted at the site during the period between 2008 and 2019 were largely effective in remediating the release.

Photographic documentation of the site shows that native vegetation has re-established over much of the site even though the surface soil is rather rocky. The dominant vegetation species appear to be mesquite, rabbit brush and sparse assorted grasses.

Due to the rocky nature of the soil in the area, Apache is requesting a variance for the area identified as having elevated TPH at SP-3 at refusal at one-foot bgs due to the fact that native vegetation has reestablished or is still re-establishing on the rocky soils in the area. Any excavation disturbance in the area would likely upset a delicate balance for the local vegetative ecosystem. Trinity on behalf of Apache requests that no further delineation of the elevated TPH at SP-3 be performed due to hand auger sampling refusal at one-foot in the subsurface and the potential for upsetting the ecosystem.

It is likely that the hard-native rock in-situ in the shallow subsurface will preclude the migration of TPH deeper into the subsurface to a level that would affect groundwater. It is also likely that natural attenuation will reduce the TPH values in the soil at the SP-3 over time to background levels. Trinity on behalf of Apache recommends no further action at the site.

Trinity on behalf of Apache, hereby requests that the NMOCD grant closure to the NEDU 704 release site as represented by 1RP-1214.

Attachments

Table 1 Trinity Samples Lab Result SummaryTable 2 Closure Criteria Table

Figure 1: Site Location Map - NEDU 704

- Figure 2: Sample Location Map Trinity
- Figure 3: Sample Location Map Historic Aerial
- Figure 4: Vicinity and Wellhead Protection Area Map

Appendices

- Appendix A: C-141 Initial NEDU 704
- Appendix B: C-141 Final NEU 704
- Appendix C: Available Historic Documentation
- Appendix D: Site Photos of Current Conditions
- Appendix E: Laboratory results

TABLES

TABLE 1TRINITY LAB RESULT SUMMARY

 TABLE 1

 APACHE NEDU 704

 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL



					EPA SW-846 Method 8021B						EPA SW-846 Method 8015M			
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	TOTAL BTEX (mg/kg)		DRO C10-C28 (mg/kg)	EXT DRO C28-C36 (mg/kg)	TPH C6-C35 (mg/kg)	CHLORIDE (mg/kg)	
NMOC	D Closure Li	mits (mg/kg)	Part and statements	10	NE	NE	NE	50	NE	NE	NE	100	600	
SP-1 @ Surface	Surface	8/22/19	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0	
SP-1 @ 1'	ť	8/22/19	In-Silu	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0	
SP-2 @ Surface	Surface	8/22/19	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0	
SP-2 @ 1'	1°	8/22/19	In-Silu	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10_0	48.0	
SP-3 @ Surface	Surface	8/22/19	In-Silu	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16 0	
SP-3 @ 1'	1°.	8/22/19	In-Silu	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	138	95.9	233.9	<16.0	
SP-4 @ Surface	Surface	8/22/19	In-Silu	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0	
SP-4 @ 1'	1	8/22/19	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0	
SP-4 @ 2'	2*	8/22/19	In-Silu	<0.050	<0.050	<0.050	<0,150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0	
SP-4 @ 3'	3	8/22/19	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0	

NE = Not Established -- = Not Analyzed

Concentrations in BOLD exceed the NMOCD Closure Limit

TABLE 2CLOSURE CRITERIA JUSTIFICATION

TABLE 2 CLOSURE CRITERIA JUSTIFICATION

APACHE CORPORATION NEDU 704 LEA COUNTY, NEW MEXICO NMOCD REFERENCE #: 1RP-1214



Groundwater, Water Wells & Other Water Sources	the second second second
Depth to groundwater (ft)?	39.8 ft.
Horizontal distance (ft) from all water sources within 0.5 miles?	~ 0.17 to 0.29 miles
Within 500' of a spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes?	No
Within 1000' of any fresh water well or spring?	No
Surface Water	
Horizontal distance (ft) to nearest significant watercourse?	>1,000
Within 300' of any continuously flowing watercourse or any other significant watercourse?	No
Within 200' of any lakebed, sinkhole or playa lake?	No
Human-Occupied, Environmental & Other Areas	
Within incorporated municipal boundaries or within a defined municipal fresh water well field?	No
Within 300' of an occupied permanent residence, school, hospital, institution or church?	No
Within 300' of a wetland?	No
Within the area overlying a subsurface mine?	No
Within an unstable area?	No
Within a 100-year floodplain?	No

R. Aller Marga	C	losure Criteria (mg/	/kg)*	
Benzene	BTEX	GRO + DRO	ТРН	Chloride
10	50	N/A	100	600

*Numerical limits or natural background level, whichever is greater

Page 1 of 1

FIGURES

FIGURE 1 SITE LOCATION MAP



FIGURE 2 SAMPLE LOCATIONS – TRINITY



FIGURE 3

SAMPLE LOCATIONS – HISTORIC



FIGURE 4 VICINITY AND WELLHEAD PROTECTION AREA MAP



APPENDICES

APPENDIX A C-141 INITIAL

	ن ا				
1625 N French Dr. Hobbs NM 88240	ew Mexico d Natural Resources	Form C-141 Revised March 17, 1999			
District III Oil Conserva 1000 Rio Brazos Road, Aztec, NM 87410 1220 South S District IV 1220 South S	tion Division St. Francis Dr.	Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back			
	NM 87505	side of form			
Release Notification a	_				
OPERATOR Name of Company	Contact	t Final Report			
Apache Corporation	Mike Warren				
Address PO Box 1849 1.5 miles North of Eunice Eunice, New Mexico 88231	Telephone No. 505.394.2743				
Facility Name NEDU 704 9-18-03	Facility Type Water injection system 2" fiber	glass line			
Surface Owner: Millard Deck Estate; representative Mineral Own is L.V. "Flap" Sims II	er	Lease No.			
AP/#30025099170000 LOCATION	OF RELEASE				
Unit Letter Section Township Range Feet from the North/S 15 15 T21S R37E	South Line Feet from the East/West	Line County: Lea Lat. 32° 28' 28.3"N Lon. 103° 09' 10.4"'W			
NATURE O	F RELEASE				
Type of Release Produced Water	Volume of Release 500 bbls barrels	Volume Recovered 0.0 bbls barrels			
Source of Release Water injection system 2" fiberglass line	Date and Hour of Occurrence 9-18-03 @ 3:00 AM	Date and Hour of Discovery 9-18-03 @ 8:20 AM			
Was Immediate Notice Given?	If YES, To Whom? Paul Sheeley and Sylvia Dickie				
By Whom? Pat McCasland, EPI	Date and Hour 9-18-03 @ 9:10 AM				
Was a Watercourse Reached? 🗌 Yes 🛛 No	If YES, Volume Impacting the Water NA	course.			
If a Watercourse was Impacted, Describe Fully.* NA					
Describe Cause of Problem and Remedial Action Taken.* The 2" fiberglass injection line failed for unknown reasons and is being inve	estigated.	1			
Describe Area Affected and Cleanup Action Taken.* The site will be delineated and remediated in accordance with the NMOCD mg/Kg, and BTEX, i.e., the mass sum of Benzene, Ethyl Benzene, Toluene, determined utilizing risk assessment.	guidelines. Remedial Goals: TPH 801: and Xylenes = 50 mg/Kg. A site spec	5m = 1000 mg/Kg, Benzene = 10 ific chloride residual will be			
I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the b should their operations have failed to adequately investigate and remediate to health or the environment. In addition, NMOCD acceptance of a C-141 report other federal, state, or local laws and/or regulations.	ifications and perform corrective action NMOCD marked as "Final Report" due contamination that pose a threat to grou	ns for releases which may endanger s not relieve the operator of liability and water, surface water, human			
Signature:	Off. CONSERV	ATION DIVISION			
Printed Name: Mike Warren e-mail - mike.warren@apachecorp.com	Approved by District Supervisor:	Colum			
	Approval Date: 6-5.07	Expiration Date: 8-5.07			
Title: Area Supervisor	Approval Date: 0-00				

APPENDIX B C-141 FINAL

$E_{arm} \subset 1.41$	State of New Mexico		
Form C-141		Incident ID	
Page 3	Oil Conservation Division	District RP	
		Facility ID	

Application ID

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>39.8 avg. (</u> 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 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗋 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🛛 No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. \boxtimes 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
- Photographs including date and GIS information
- Topographic/Aerial maps
- \square 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.

Form C=141	State of New Mexico		Incident ID	
Page 4	Oil Conservation Divisio	n	District RP	
			Facility ID	
			Application ID	
regulations all operators are public health or the enviror failed to adequately investi addition, OCD acceptance and/or regulations. Printed Name: Signature:	ormation given above is true and complete to e required to report and/or file certain release of ment. The acceptance of a C-141 report by the gate and remediate contamination that pose a of a C-141 report does not relieve the operator cuce BAKer Baker Baker Kene apache corp.com	notifications and perform c ne OCD does not relieve th threat to groundwater, surfi- of responsibility for comp Title: <u>Ewviro</u> Date: <u>11 - 7 - 1</u>	orrective actions for rele e operator of liability sho ace water, human health pliance with any other fee wmewtal Tec	ases which may endanger ould their operations have or the environment. In deral, state, or local laws
Received by:		Date:		

Form C-141 Page 6 State of New Mexico Oil Conservation Division

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.

	· · · · · · · · · · · · · · · · · · ·
<u>Closure Report Attachment Checklist</u> : Each of the following item	as must be included in the closure report.
\boxtimes A scaled site and sampling diagram as described in 19.15.29.11 N	IMAC
Photographs of the remediated site prior to backfill or photos of must be notified 2 days prior to liner inspection)	the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate ODC D	istrict office must be notified 2 days prior to final sampling)
Description of remediation activities	
	elease notifications and perform corrective actions for releases which C-141 report by the OCD does not relieve the operator of liability liate contamination that pose a threat to groundwater, surface water, -141 report does not relieve the operator of responsibility for ns. The responsible party acknowledges they must substantially tions that existed prior to the release or their final land use in 0 when reclamation and re-vegetation are complete. Fitle: <u>Environmental Tech SR</u> ,
OCD Only	
Received by:	Date:
	liability should their operations have failed to adequately investigate and er, human health, or the environment nor does not relieve the responsible egulations.

Closure Approved	by: Bradford Billings	Date: _	06/22/2022	
Printed Name:	Bradford Billings	Title: _	Envi. Spec.A	

APPENDIX C AVALABLE HISTORIC DOCUMENTATION

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A remediation plan will be developed and submitted for NMOCD approval and will address issues identified during delineation of the vertical and horizontal extents of contamination of the Constituents of Concern (CoCs), i.e., Chloride, Total Petroleum Hydrocarbon EPA method 8015m (TPH anten), Benzene, and BTEX, i.e., the mass sum of Benzene, Toluene, Ethyl Benzene, and Xylenes. The contaminated soil is exempted from RCRA 40 CFR Part 261. Site maps and photographs are attached.

If there are any questions please call Mr. Ben Miller or myself at the office or at 505.390.0288 and 505.390.7864, respectively or Mr. Mike Warren at 505.394.2743. All official communication should be addressed to:

8 *** 2100 WEST AVE. の *** しいおけても、NTマ MCX1CO 88231 TELEPHONE 505*394*3481 - FAX 505*394*2661 P.O. BOX 1558 FAX 585-194-2681

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<u>District </u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 1301 W. Grand Avenue, Artesia, NM 88210	Energy Minerals and				•	Form C Revised March 17,				
District III 1000 Rio Brazos Rosd, Azice, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505	riel III Oil Conservai 0 Rio Brazos Road, Arice, NM \$7410 1220 South St 1220 South St			SL Francis Dr.			ubmit 2 Copies to approp District Office in accord with Rule 116 on side of t	back		
Rel	ease No	the second s	Statistics in the local division in the loca	other designment of the local division of the local division of the local division of the local division of the	rective /	Action				
OPERATOR						nitial Report	E	Final Report		
Name of Company			_	Contact						
Apache Corporation				Mike V	Varren		3 1	1.1 - 22 12	- 1	
Address PO Box 1849 1.5 miles North of Eunice E	unice. Nev	v Mexico	88231	Telepho 505.394			- 20			
Facility Name		9-1 - S	_	Facility	Type				-	
NEDU 704 9-18-03						lem 2" fiberg	lass li	ine		
Surface Owner: Millard Deck Estate; reprist L.V. "Flap" Sins II	csentative	Miner	d Owner	F			ľ	.case No.		
	1.	OCAT		FREL	RASE					
Unit Letter Section Township Ran 15 15 T21S R37	go Feel G			with Line	Feet from the	EASI/West L	- 1	County: Lea Lac. 32° 28' 28.3°N Lon. 103° 09' 10.4°W		
		NATUI	RE OF	RELE	ASE					
Type of Release								Volume Recovered		
Produced Water Source of Release								0.0 bbls barrels		
Water injection system 2" fiberglass line								and Hour of Discovery -03 @ 8:20 AM		
Was Immediate Notice Given?		Not Requ	ired	If YES, To Whom? Paul Sheeley and Sylvia Dickie						
By Whom? Pat McCasland, EPI			1	Date and Hour 9-18-03 @ 9:10 AM						
Was a Watercourse Reached? 🚺 Yes 🗵	Nu	-		If YES, Volume Impacting the Watercourse, NA						
If a Watercourse was Impacted, Describe Fully NA	*	-								
Describe Cause of Problem and Remedial Acti The 2" fiberglass injection line failed for unkn		and is be	ing inves	tigated.						
Describe Area Affected and Cleanup Action T	alenn A			2.7						
The site will be delineated and remediated in a mg/Kg, and BTEX, i.e., the mass sum of Benz determined utilizing risk assessment.	ccordance w enc, Ethyl B	enzenc, T	olucne, a	nd Xylene	: = 50 mg/Kg	A site specif	ic chie	oride residual will be		
I hereby certify that the information given aboregulations all operators are required to report public health or the environment. The accepta should their operations have failed to adequate health or the environment. In addition, NMOC other federal, state, or local laws and/or regulation	and/or file c nec of a C-1 ly investigat D acceptant	eriain rele 41 report i e and rem	ase notifi by the NI ediate co	cations an MOCD ma ntaminatio	i perform con rked as "Final a that pose a t relieve the op	rective actions Report" does threat to groun erator of respo	for re not re d wate asibili	leases which may endang lieve the operator of Habi er, surface water, human ity for compliance with an	jer ility	
Signature:				OIL CONSERVATION DIVISION						
Printed Name: Mike Warren c-mail - mil	с. wuтеп@ J	pachecon	o com	Approve	d by District	Supervisor:				
Title: Area Supervisor				Approva	Date:		Ехр	iration Date:		
		394 2743		Conditio	ns of Approv	al:		Attached		
* Attach Additional Sheets If Necessary										

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Antoine

Apache Corporation Size	Incident Date:	NMOCD Notified:				
Information and Metrics	9-18-03 @ 3:00 AM	9-18-03 @ 9:10 AM by Pat McCasland (EPI)				
SITE: NEDU 704 9-18-03	Assigned Site R					
Company: Apache Corporation	Assigned Side N	Cittelice #.				
Street Address: 1.5 miles North of Eunic	•	· · · · · · · · · · · · · · · · · · ·				
Mailing Address: PO Box 1849						
City, State, Zip: Eunice, New Mexico	88731					
Representative: Mike Warren, Area Supe		· · · · · · · · · · · · · · · · · · ·				
Representative Telephone: 505.394.27						
Telephone:	15					
Fluid volume released (bbls): 500 bbls	Decause					
	NMOCD verbelly within 24 hrs and su	red (bbls): 0.0 bbls				
L (Å)	to applies to unauthorized releases >50	B mc [Natural Cas)				
S-25 bbls: Submit form C-14	1 within 15 days (Also applies to unsul	thonized releases of 50-500 mc(Natural Gas)				
Leak, Spill, or Pit (LSP) Name: NEDU						
Source of contamination: Water injection	i system line					
Land Owner, i.e., BLM, ST, Fee, Other: I	Millard Deck Estate; representat	tive is L.V. "Flap" Sims II				
LSP Dimensions 900' NWtoSE x 430'	NWtoSW					
LSP Area: 102,527 sqft ft ²						
Location of Reference Point (RP)						
Location distance and direction from RP	· · · · · · · · · · · · · · · · · · ·					
Latitude: 32*28'28.3"N						
Longitude: 103* 09' 10.4"W						
Elevation above mean sea level: 3,415's	มทรโ					
Feet from South Section Line						
Feet from West Section Line						
Location- Unit or 1414: SE14 of the SW1	Unit Letter: N	۷				
Location-Section: 15						
Location- Township: T21S						
Location-Range: R37E						
Surface water body within 1000 * radius	of site: none	······································				
Surface water body within 1000 * radius	of site:					
Domestic water wells within 1000' radius	of site: none					
Domestic water wells within 1000' radiu	s of site:					
Agricultural water wells within 1000' rad						
Agricultural water wells within 1000' rad	ius of site:					
Public water supply wells within 1000' m	vius of site: none					
Public water supply wells within 1000'r		······································				
Depth from land surface to ground water						
Depth of contamination (DC) - ?						
Depth to ground water (DG - DC = DiG)	λh -					
i. Ground Water	2. Wellhead Protectio	On Area 3. Distance to Surface Water Body				
If Depth to GW <50 feet: 20 points	If <1000' from water source, o					
If Depth to GW 50 to 99 feet: 10 points	private domestic water source.					
	If >1000' from water source, o	am >300! C				
If Depth to GW >100 feet: 0 points	private domestic water source.	: 0 points >1000 honzontal (cet: 0 points				
Ground water Score = 10	Wellhead Protection Area Sco	nre= 0 Surface Water Score= 0				
Slie Rank $(1+2+3) = 10$						
Toial S	te Ranking Score and Accepta	able Concentrations				
Parameter >19	10-19	0-9				
Benzene 10 ppm	IQ ppm	10 ppm				
BTEX 50 ppm	50 ppm	50 ppm				
TPH 100 ppm	1000 ppg	5000 0000				
100 ppm field VOC beadspace measurement may be substituted for lab analysis						

1













.
2019



APPENDIX D CURRENT SITE PHOTOGRAPHY







































APPENDIX E LABORATORY RESULTS FOR SAMPLES



August 27, 2019

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

RE: NEDU #704

Enclosed are the results of analyses for samples received by the laboratory on 08/22/19 16:50.

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

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

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

Accreditation applies to public drinking water matrices.

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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager

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Analytical Results For:

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

Received:	08/22/2019	Sampling Date:	08/22/2019
Reported:	08/27/2019	Sampling Type:	Soil
Project Name:	NEDU #704	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 1 @ SURFACE 32.474503 (H902894-01)

BTEX 8021B	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2019	ND	1.68	83.8	2.00	3.40	
Toluene*	<0.050	0.050	08/24/2019	ND	1.84	92.2	2.00	1.47	
Ethylbenzene*	<0.050	0.050	08/24/2019	ND	1.98	98.8	2.00	1.53	
Totai Xylenes*	<0.150	0.150	08/24/2019	ND	5.90	98.3	6.00	1.11	
Total BTEX	<0.300	0.300	08/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	93.2	% 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	16.0	16.0	08/26/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2019	ND	192	95.8	200	0.189	
DRO >C10-C28*	<10.0	10.0	08/26/2019	ND	190	95.0	200	4.12	
EXT DRO >C28-C36	<10.0	10.0	08/26/2019	ND					
Surrogate: 1-Chlorooctane	86.4	% 41-142	!						
Surrogate: 1-Chlorooctadecane	93.4	% 37.6-14	7						

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Analytical Results For:

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

Received:	08/22/2019	Sampling Date:	08/22/2019
Reported:	08/27/2019	Sampling Type:	Soil
Project Name:	NEDU #704	Sampling Condition:	Cool & Intact
Project Number: Project Location:	NONE GIVEN NONE GIVEN	Sample Received By:	Tamara Oldaker

Sample ID: SP 1 @ 1 -103.152866 (H902894-02)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2019	ND	1.68	83.8	2.00	3.40	
Toluene*	<0.050	0.050	08/24/2019	ND	1.84	92.2	2.00	1.47	
Ethylbenzene*	<0.050	0.050	08/24/2019	ND	1.98	98.8	2.00	1.53	
Total Xylenes*	<0.150	0.150	08/24/2019	ND	5.90	98.3	6.00	1.11	
Total BTEX	<0.300	0.300	08/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	93.0	% 73.3-12	9						
Chloride, SM4500Cl-8	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/26/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2019	ND	192	95.8	200	0.189	
DRO >C10-C28*	<10.0	10.0	08/26/2019	ND	190	95.0	200	4-12	
EXT DRO >C28-C36	<10.0	10.0	08/26/2019	ND					
Surrogate: 1-Chlorooctane	82.4	% 41-142	?						
Surrogate: 1-Chlorooctadecane	90.2	% 37.6-14	7						

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Analytical Results For:

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

Received:	08/22/2019	Sampling Date:	08/22/2019
Reported:	08/27/2019	Sampling Type:	Soil
Project Name:	NEDU #704	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN	,	

Sample ID: SP 2 @ SURFACE 32.474143 (H902894-03)

BTEX 8021B mg/kg Analyzed By: ms Analyte Result **Reporting Limit** Analyzed Method Blank 8S % Recovery True Value QC RPD Qualifier < 0.050 Benzene* 0.050 08/24/2019 ND 1.68 83.8 2.00 3.40 Toluene* < 0.050 0.050 08/24/2019 ND 1.84 92.2 2.00 1.47 Ethylbenzene* < 0.050 0.050 08/24/2019 ND 1.98 98.8 2.00 1.53 Total Xylenes* < 0.150 0.150 08/24/2019 ND 5.90 98.3 6.00 1.11 Total BTEX < 0.300 0.300 08/24/2019 ND Surrogate: 4-Bromofluorobenzene (PIL 93.3 % 73.3-129 Chloride, SM4500CI-B ma/ka Analyzed By: AC Analytic .. Marker of Child ~ ~

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	rpd	Qualifier
Chloride	16.0	16.0	08/26/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2019	ND	192	95.8	200	0.189	
DRO >C10-C28*	<10.0	10.0	08/26/2019	ND	190	95.0	200	4.12	
EXT DRO >C28-C36	<10.0	10.0	08/26/2019	ND					
Surrogate: 1-Chlorooctane	82.7	% 41-142	,				8		

Surrogate: 1-Chlorooctadecane 90.3 % 37.6-147

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Analytical Results For:

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

Received:	08/22/2019	Sampling Date:	08/22/2019
Reported:	08/27/2019	Sampling Type:	Soil
Project Name:	NEDU #704	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 2 @ 1 -103.152441 (H902894-04)

BTEX 8021B mg/kg Analyzed By: ms Analyte Result **Reporting Limit** Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Benzene* < 0.050 0.050 08/24/2019 ND 1.68 83.8 2.00 3.40 Toluene* < 0.050 0.050 08/24/2019 ND 1.84 92.2 2.00 1.47 Ethylbenzene* < 0.050 0.050 08/24/2019 ND 1.98 98.8 2.00 1.53 Total Xylenes* < 0.150 0.150 08/24/2019 ND 5.90 98.3 6.00 1.11 Total BTEX <0.300 0.300 08/24/2019 ND 91.4% 73.3-129 Surrogate: 4-Bromofluorobenzene (PIL Chloride, SM4500CI-B mg/kg Analyzed By: AC **Reporting Limit** Analyzed Method Blank RPD Analyte Result BS % Recovery True Value QC Qualifier Chloride 48.0 16.0 08/26/2019 ND 400 416 104 0.00 TPH 8015M mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BŞ True Value OC RPD Qualifier % Recovery GRO C6-C10* <10.0 10.0 08/26/2019 ND 192 95.8 200 0.189 DRO >C10-C28* <10.0 10.0 08/26/2019 ND 190 95.0 200 4.12

ND

08/26/2019

Surrogate: 1-Chlorooctane	75.6 %	41-142
Surrogate: 1-Chlorooctadecane	81.5 %	37.6-147

<10.0

10.0

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EXT DRO >C28-C36

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Analytical Results For:

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

Received:	08/22/2019	Sampling Date:	08/22/2019
Reported:	08/27/2019	Sampling Type:	Soil
Project Name:	NEDU #704	Sampling Condition:	Cool & Intact
Project Number: Project Location:	None given None given	Sample Received By:	Tamara Oldaker

Sample ID: SP 3 @ SURFACE 32.47377 (H902894-05)

BTEX 8021B mg/kg Analyzed By: ms Analyte Result **Reporting Limit** Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Benzene* < 0.050 0.050 08/24/2019 ND 83.8 2.00 1.68 3.40 Toluene* <0.050 0.050 08/24/2019 ND 1.84 92.2 2.00 1.47 Ethylbenzene* < 0.050 0.050 08/24/2019 ND 1.98 98.8 2.00 1.53 Total Xylenes* < 0.150 0.150 08/24/2019 ND 5.90 98.3 6.00 1.11 Total BTEX < 0.300 0.300 08/24/2019 ND Surrogate: 4-Bromofluorobenzene (PIE 91.7% 73.3-129 Chloride, SM4500CI-B mg/kg Analyzed By: AC Analyte Result **Reporting Limit** Analyzed Method Blank BŞ % Recovery True Value OC RPD Oualifier Chloride <16.0 16.0 08/26/2019 ND 416 104 400 0.00 TPH 8015M mg/kg Analyzed By: MS Analyte Result **Reporting Limit** Analyzed Method Blank BŞ % Recovery True Value QC RPD Qualifier GRO C6-C10* 10.0 08/26/2019 <10.0 ND 200 192 95.8 0.189 DRO >C10-C28* <10.0 10.0 08/26/2019 ND 190 95.0 200 4.12 EXT DRO >C28-C36 08/26/2019 <10.0 10.0 ND

Surrogate 1-Chlorooctane	80.7 %	41-142
Surrogate: 1-Chlorooctadecane	88.5 %	37.6-147

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Analytical Results For:

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

Received:	08/22/2019	Sampling Date:	08/22/2019
Reported:	08/27/2019	Sampling Type:	Soil
Project Name:	NEDU #704	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 3 @ 1 -103.151807 (H902894-06)

BTEX 8021B mg/kg Analyzed By: ms Analyte Result **Reporting Limit** Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier < 0.050 0.050 08/24/2019 ND 83.8 2.00 Benzene* 1.68 3.40 Toluene* < 0.050 0.050 08/24/2019 ND 1.84 92.2 2.00 1.47 Ethylbenzene* < 0.050 0.050 08/24/2019 ND 1.98 98.8 2.00 1.53 Total Xylenes* <0.150 0.150 08/24/2019 ND 5.90 98.3 6.00 1.11 Total BTEX < 0.300 0.300 08/24/2019 ND Surrogate 4-Bromofluorobenzene (PIC 92.8% 73.3-129 Chloride, SM4500CI-B Analyzed By: AC ma/ka Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride <16.0 16.0 08/26/2019 ND 416 104 400 0.00 TPH 8015M mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS RPD Qualifier % Recovery True Value QC GRO C6-C10* 10.0 08/26/2019 ND 200 <10.0 192 95.8 0.189 DR0 >C10-C28* 138 10.0 08/26/2019 ND 190 95.0 200 4.12 EXT DRO >C28-C36 95.9 10.0 08/26/2019 ND

Surrogate: 1-Chlorooctane	100 %	41-142
Surrogate 1-Chlorooctadecane	115 %	37.6-147

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Analytical Results For:

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

Received:	08/22/2019	Sampling Date:	08/22/2019
Reported:	08/27/2019	Sampling Type:	Soil
Project Name:	NEDU #704	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 4 @ SURFACE 32.473295 (H902894-07)

BTEX 8021B mg/kg Analyzed By: ms Analyte Result **Reporting Limit** Analyzed Method Blank BS % Recovery True Value QC Oualifier RPD Benzene* < 0.050 0.050 08/24/2019 ND 1.68 83.8 2.00 3.40 Toluene* < 0.050 0.050 08/24/2019 ND 1.84 92.2 2.00 1.47 Ethylbenzene* < 0.050 0.050 08/24/2019 ND 1.98 98.8 2.00 1.53 Total Xylenes* <0.150 0.150 08/24/2019 ND 5.90 98.3 6.00 1.11 Total BTEX <0.300 0.300 08/24/2019 ND Surrogate: 4-Bromofluorobenzene (PIL 93.7% 73.3-129 Chloride, SM4500Cl-B Analyzed By: AC mg/kg **Reporting Limit** Analyzed Method Blank Analyte Result **BS** % Recovery True Value QC RPD Qualifier Chloride 16.0 08/26/2019 ND 16.0 416 104 400 0.00 TPH 8015M Analyzed By: MS mg/kg Analyte Result **Reporting Limit** Analyzed Method Blank BS True Value OC RPD Qualifier % Recovery GRO C6-C10* <10.0 10.0 08/26/2019 ND 192 95.8 200 0.189 DRO >C10-C28* <10.0 10.0 08/26/2019 ND 200 190 95.0 4.12 EXT DRO >C28-C36 08/26/2019 <10.0 10.0 ND Surrogate 1-Chlorooctane 75.8% 41-142 Surrogate: 1-Chlorooctadecane 83.7% 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:08/22/2019Reported:08/27/2019Project Name:NEDU #704Project Number:NONE GIVENProject Location:NONE GIVEN	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:	08/22/2019 Soil Cool & Intact Tamara Oldaker
--	--	---

Sample ID: SP 4 @ 1 -103.151425 (H902894-08)

BTEX 8021B mg/kg Analyzed By: ms Analyte Result **Reporting Limit** Analyzed Method 8lank BS % Recovery True Value OC RPD Qualifier Benzene* < 0.050 0.050 08/24/2019 ND 1.68 83.8 2.00 3.40 Toluene* < 0.050 0.050 08/24/2019 ND 1.84 92.2 2.00 1.47 Ethylbenzene* < 0.050 0.050 08/24/2019 ND 1.98 98.8 2.00 1.53 Total Xylenes* <0.150 0.150 08/24/2019 ND 5.90 98.3 6.00 1.11 Total BTEX < 0.300 0.300 08/24/2019 ND Surrogate 4-Bromofluorobenzene (PIL 93.0% 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 <16.0 16.0 08/26/2019 ND 416 104 400 0.00 TPH 8015M mg/kg Analyzed By: MS Analyte Result Qualifier Reporting Limit Analyzed Method Blank BS True Value OC RPD % Recovery GRO C6-C10* <10.0 10.0 08/26/2019 ND 192 95.8 200 0,189 DRO >C10-C28* <10.0 10.0 08/26/2019 ND 190 95.0 200 4.12

ND

08/26/2019

Surrogate: 1-Chlorooctane	78.3 %	41-142
Surrogate: 1-Chloroactadecane	86.1%	37.6-1.17

<10.0

10.0

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EXT DRO >C28-C36

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Analytical Results For:

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

Received:	08/22/2019	Sampling Date:	08/22/2019
Reported:	08/27/2019	Sampling Type:	Soil
Project Name:	NEDU #704	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN	. ,	

Sample ID: SP 4 @ 2 (H902894-09)

BTEX 80218	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2019	ND	1.68	83.8	2.00	3.40	
Toluene*	<0.050	0.050	08/24/2019	ND	1.84	92.2	2.00	1.47	
Ethylbenzene*	<0.050	0.050	08/24/2019	ND	1.98	98.8	2.00	1.53	
Total Xylenes*	<0.150	0.150	08/24/2019	ND	5.90	98.3	6.00	1.11	
Total BTEX	<0.300	0.300	08/24/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL 91.9 % 73.3-129

Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/26/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2019	ND	192	95.8	200	0.189	
DRO >C10-C28*	<10.0	10.0	08/26/2019	ND	190	95.0	200	4.12	
EXT DRO >C28-C36	<10.0	10.0	08/26/2019	ND					
Surrogate: 1-Chlorooctane	92.6	% 41-142	,						
Surrogate: 1-Chlorooctadecane	102 9	6 37-6-14	7						

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Colog 2 trees -



mg/kg

101%

37.6-147

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

Analytical Results For:

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

Received:	08/22/2019	Sampling Date:	08/22/2019
Reported:	08/27/2019	Sampling Type:	Soil
Project Name:	NEDU #704	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN	· ,	

Sample ID: SP 4 @ 3 (H902894-10)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2019	ND	1.68	83.8	2.00	3.40	
Toluene*	<0.050	0.050	08/24/2019	ND	1.84	92.2	2.00	1.47	
Ethylbenzene*	<0.050	0.050	08/24/2019	ND	1.98	98.8	2.00	1.53	
Total Xylenes*	<0.150	0.150	08/24/2019	ND	5.90	98.3	6.00	1.11	
Total BTEX	<0.300	0.300	08/24/2019	ND					
Surrogate 4-Bromofluorobenzene (PIL	93.4	% 73.3-12	0						

Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/26/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/26/2019	ND	192	95.8	200	0.189	
DRO >C10-C28*	<10.0	10.0	08/26/2019	ND	190	95.0	200	4.12	
EXT DRO >C28-C36	<10.0	10.0	08/26/2019	ND					
Surrogate: 1-Chlorooctane	91.9	% +1-1+2	2						

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Surrogate: 1-Chlorooctadecane

Chloride, SM4500Ci-B

*=Accredited Analyte

PLEXE NOTE: Labelity and Damages. Cardwal's labelity and clean's exclusive remety for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by cleant for analyses. All claims, including those for negligence and any other cause whatgescriter shall be determed varies unless made in woman and eccured by Candinal within thing (20) days after completion of the applicable sance. In no event shall Cardinal be hable for inodersal or consequenceal damages, including, without junctation, business internuptions, loss of use, or loss of juncts including those and y states as subsidiants, affiliates or successions arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such after successions and upon any of the above stated reasons or otherware. Results related on the torted service claim of based upon any of the above stated reasons or otherware. Results related on the torte service claim of based upon any of the above stated reasons or otherware. Results related on the torte service claim of based upon any of the above stated reasons or otherware. Results related on the torte service of claims all above.

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

- ND
 Analyte NOT DETECTED at or above the reporting limit

 RPD
 Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Cologications --

Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(575) 393-2326 FAX (575) 393-2476				
Company Name: Afache Corporation		BILL TO		ANALYSIS REQUEST
	P.O. #:			
Address:	Company:			
City: State:	Zip: Attn:			
Phone #: Fax #:	Address:			
Project #: Project Owner:				
Project Name: NEDU 704	State:	Zip:		
Project Location: NEDU 704	Phone #:			
Sampier Name: Daniel Rasker	Fax #:		· · · · · · · · · · · · · · · · · · ·	
	MATRIX PRESERV.	RV. SAMPLING		
	ERS ATER TER		РН	
Lab I.D. Sample I.D.	(G)RAB OR (# CONTAINE GROUNDW/ WASTEWAT SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL		EXT. TI BTEX	
1 9P-1 Surface 3/2.47# 503		SI2UM N		
2 57-1@1 -103.15294			V V V	
P			$\langle \Lambda \Lambda \Lambda \rangle$	
			KA VA	
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6 57-3 @1 - C3, 15 87			VVVV	
7 58-4 Surface 52.473295			XXXXXX	
-10			$\sqrt{ v } \sqrt{ v }$	
9 8-4ez		¥	X ~ Y ~ Y ~ Y	
10 5 4 B 3		\$122/19		
PLEASE NOTE: Lability and Damagne. Candina's lability and client's archapter remarks for any cleim arbitry whether based in contract or bot, shall be limited to the amount patch 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 recoved by Candinal within 30 days siter completion of the applicable	ry cleim arising whether based in contract or tort, shell be if eemed waived unless made in writing and received by Card	ruled to the amount paid by the client for the linal within 30 days after completion of the ec	oplicable	
service. In no event shall Cerdinal be lable for incidental or consequential damages, including without similariton, business interruptions, loss of use, or loss of profils incurred by client, its subsidiaries, attaines or subsidiaries, attaines at a subsidiaries, attaines at a subsidiaries, and a subsidiaries, attaines at a subsidiaries, attaines attaines at a subsidiaries, attaines at a subsidiaries, attaines attaines at a subsidiaries, attaines attaines	quentel damages, locading without initiation, busivess internations, loss of use, or loss of profits incurned by clent, its subsidiated of services hereundat by Cardinal, regentless of whether such claim is based upon any of the above stated manors or otherwise	s of profits incurred by client, its subsidiaries, of the above stated masons or otherwise.		
Relinquished By: Date: 77-19	Received By:	Phone Result:		Add'I Phone #:
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Relinquished By: C Date: Time:	Received By:	Email to Br	to Bruce an	uce and sett
Delivered By: (Circle One) /, 9 =	# Sample Condition CHi Cool Intact	CHECKED BY:		
Sampler - UPS - Bus - Other: Post - 1 0 3	DTes DTes Tes			
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District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:
APACHE CORPORATION	873
303 Veterans Airpark Ln	Action Number:
Midland, TX 79705	2447
	Action Type:
	[C-141] Release Corrective Action (C-141)
CONDITIONS	

Created By Condition Condition Date bbillings 6/22/2022 None

CONDITIONS

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Action 2447

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