Opena Ann

DAVID FLATHER ENVIRONMENTAL SUPERVISOR DIRECT (432) 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 @ Apache Corp.com.

Sincerely,

David Feather

**Environmental Supervisor** 

Apache Corporation - Permian Basin Region

Attachment: Closure Report Dated November 7, 2019

### Trinity Oilfield Services & Rentals, LLC

#### **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.

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 Summary
Table 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 1 TRINITY LAB RESULT SUMMARY

TABLE 1

APACHE NEDU 704

CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL



SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	EPA SW-846 Method 8021B					EPA SW-846 Method 8015M				4500-CI B
				BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	TOTAL BTEX (mg/kg)	GRO C6-C10 (mg/kg)	DRO C10-C28 (mg/kg)	EXT DRO C28-C36 (mg/kg)	TPH C6-C35 (mg/kg)	CHLORIDE (mg/kg)
NMOCD Closure Limits (mg/kg)			10	NE	NE NE	NE 5	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'	1'	8/22/19	In-Situ	<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-Situ	<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-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SP-3 @ 1'	1º	8/22/19	In-Situ	<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-Situ	<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 2 CLOSURE CRITERIA JUSTIFICATION

### TABLE 2 CLOSURE CRITERIA JUSTIFICATION

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



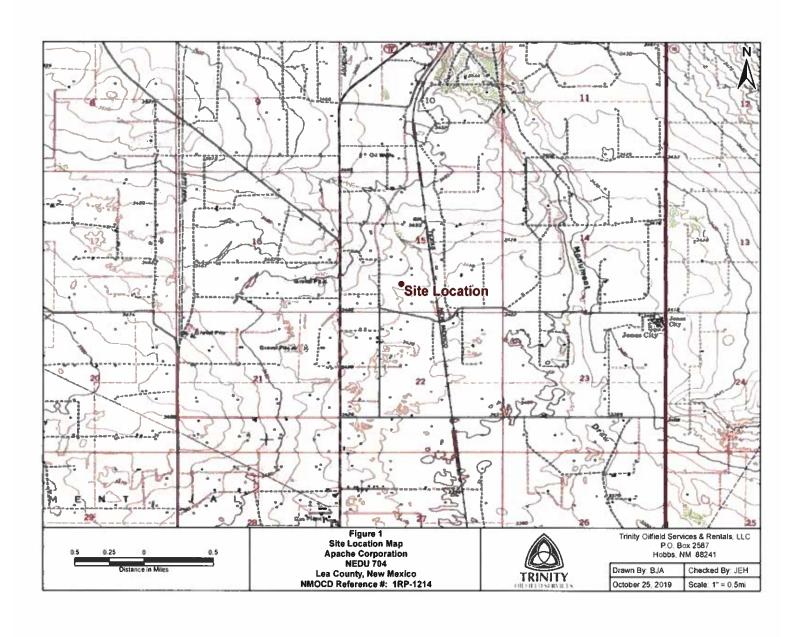
Groundwater, Water Wells & Other Water Sources	
Depth to groundwater (ft)?	39.8 ft.
Horizontal distance (ft) from all water sources within 0.5 miles?	~ 0.17 to 0.29 miles
Within 500' of a spring or a private, domestic fresh water well used by less than 5 households for domestic or stock watering purposes?	No
Within 1000' of any fresh water well or spring?	No
Surface Water	400
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

Closure Criteria (mg/kg)*							
Benzene	BTEX	GRO + DRO	TPH	Chloride			
10	50	N/A	100	600			

<sup>\*</sup>Numerical limits or natural background level, whichever is greater

### **FIGURES**

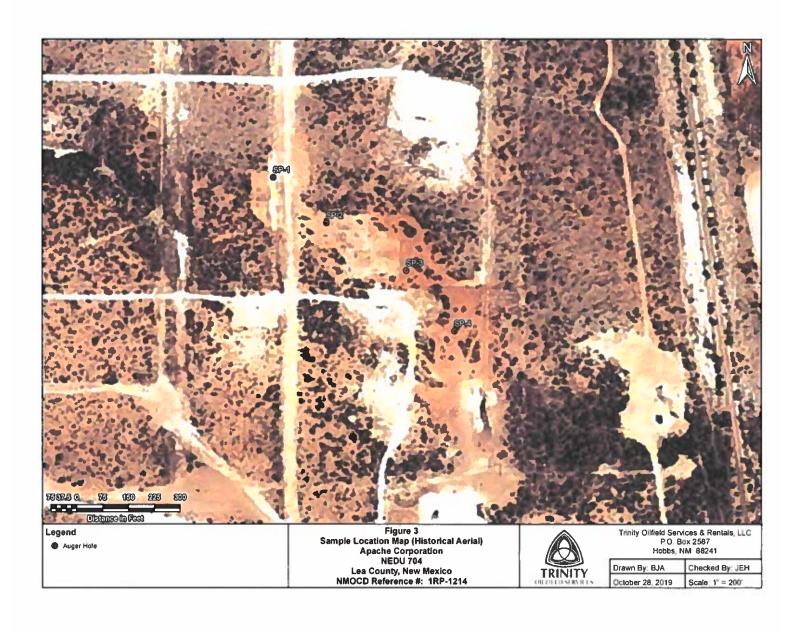
# FIGURE 1 SITE LOCATION MAP



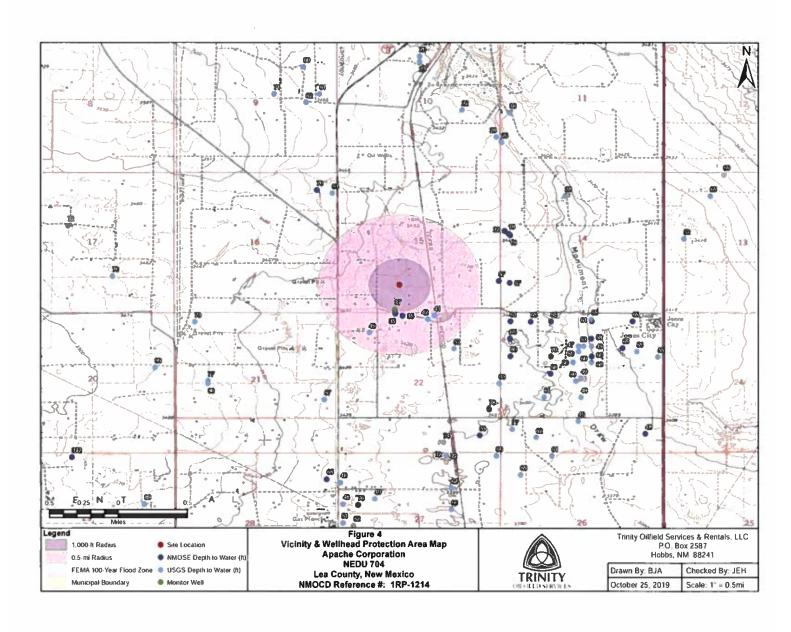
# FIGURE 2 SAMPLE LOCATIONS – TRINITY



# FIGURE 3 SAMPLE LOCATIONS – HISTORIC



# FIGURE 4 VICINITY AND WELLHEAD PROTECTION AREA MAP



### **APPENDICES**

### APPENDIX A C-141 INITIAL

District I 1625 N French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 Form C-141 Revised March 17, 1999

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

Santa Fe,	CUC/8 IVIVI				
Release Notification a	and Corrective Action				
OPERATOR	☑ Initial Report ☐ Final Report				
Name of Company	Contact				
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	Facility Type				
NEDU 704 9-18-03	Water injection system 2" fiberglass line				
Surface Owner: Millard Deck Estate; representative   Mineral Owner	er Lease No.				
is L.V. "Flap" Sims II					
AP# 30025099170000 LOCATION (	OF RELEASE				
	South Line   Feet from the   East/West Line   County: Lea				
15   15   T21S	Lat. 32° 28' 28.3"N				
R37E	Lon. 103° 09' 10.4"W				
NATURE O	F RELEASE				
Type of Release	Volume of Release Volume Recovered				
Produced Water	500 bbls barrels 0.0 bbls barrels				
Source of Release	Date and Hour of Occurrence Date and Hour of Discovery				
Was Immediate Notice Given?	9-18-03 @ 3:00 AM				
✓ Yes ☐ No ☐ Not Required	Paul Sheeley and Sylvia Dickie				
By Whom?	Date and Hour				
Pat McCasland, EPI	9-18-03 @ 9:10 AM				
Was a Watercourse Reached?  Yes No	If YES, Volume Impacting the Watercourse.				
	NA				
If a Watercourse was Impacted, Describe Fully.*  NA					
IVA					
Describe Cause of Problem and Remedial Action Taken.*					
The 2" fiberglass injection line failed for unknown reasons and is being inve	estigated.				
Describe Area Affected and Cleanup Action Taken.*					
The site will be delineated and remediated in accordance with the NMOCD	guidelines. Remedial Goals: TPH 8015m = 1000 mg/Kg, Benzene = 10				
mg/Kg, and BTEX, i.e., the mass sum of Benzene, Ethyl Benzene, Toluene,	and Xylenes = 50 mg/Kg. A site specific chloride residual will be				
determined utilizing risk assessment.					
I hereby certify that the information given above is true and complete to the	best of my knowledge and understand that pursuant to NMOCD rules and				
regulations all operators are required to report and/or file certain release noti	ifications and perform corrective actions for releases which may endanger				
public health or the environment. The acceptance of a C-141 report by the N	MOCD marked as "Final Report" does not relieve the operator of liability				
should their operations have failed to adequately investigate and remediate chealth or the environment. In addition, NMOCD acceptance of a C-141 repr					
other federal, state, or local laws and/or regulations.	or does not remove the operator of responsionity for compilation with any				
	Off, CONSERVATION DIVISION				
Signature:					
Printed Name: Mike Warren e-mail - mike.warren@apachecorp.com	ENVIRO ENCEL				
Timed value. Make value o mail inter-materingapusioeorp.com	Approved by District Supervisor:				
Title: Area Supervisor	Approval Date: 6-5-07 Expiration Date: 8-5-07				
	475				
Date: September 19, 2003 Phone: 505.394.2743	yeonations of ripprovin.				
* Attach Additional Sheets If Necessary	FINAL REPORT FILE BY				
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### APPENDIX B C-141 FINAL

Form C-141 Page 3

## 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?						
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?						
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?						
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.						
Characterization Report Checklist: Each of the following items must be included in the report.						
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.  Field data  Data table of soil contaminant concentration data  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.

Form C-141 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: Bruce Balus	Date:						
email: larry, baken@apache corp.com	Telephone: 432 - 631 - 6982						
OCD Only							
Received by:	Date:						
1							

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.

Closure Report Attachment Checklist: Each of the following item	ns must be included in the closure report.							
A scaled site and sampling diagram as described in 19.15.29.11 NMAC								
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office nust be notified 2 days prior to liner inspection)								
■ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)								
☐ Description of remediation activities								
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.  Printed Name: Bruce Brker Title: Environmental Tech 5k.  Signature: Bruce Brker Title: Environmental Tech 5k.  Taken 1 - 7 - 19  Telephone: 432 - 631 - 6982								
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



ENVIRONMENTAL PLUS, INC. Micro Blesso STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES

Alle Charles

September 19, 2003

Mr. Paul Sheeley Environmental Engineer New Mexico Oil Conservation Division 1625 North French Hobbs, New Mexico 88240

Subject: Apache Corporation Initial C-141 and support documentation

Re: NEDU #704 9-18-03,
UL- N, SE¼ of the SW¼ of Section 15 T21S R37E
Latitude 32° 28' 28.3"N and Longitude 103° 09' 10.4"W
Millard Deck Estate; representative is L.V. "Flap" Sims II

Dear Mr. Paul Sheeley,

Environmental Plus, Inc. (EPI), on behalf of Mr. Mike Warren, Apache Corporation, submits the attached New Mexico Oil Conservation Division (NMOCD) form C-141 for the above referenced injection water line leak site located on land owned by the Millard Deck Estate, representative is L.V. "Flap" Sims II, located approximately 2 miles north of Eunice, New Mexico. This submittal follows the initial verbal notification made on September 18, 2003. The New Mexico Office of the State Engineer database does not record any water wells within 0.25 miles of the site. The proximities of the nearest recorded water wells are illustrated on the topographical map below. The estimated ground water depth at this site is -63 feet below ground surface and is the average of the nearest three recorded wells. The attached site information and metrics form ranks the site in accordance with the NMOCD Guidelines for Remediation of Leaks. Spills and Releases (August 13, 1993).

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\*\*\*\*), 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:

P.O. BOX 1558 \*\*\* 2100 WEST AVE. 0 \*\*\* LUNICE, NEW MOXICO 88231 TELEPHONE 505\*394\*3481 FAX 505\*394\*2601



ENVIRONMENTAL PLUS, INC. STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES

Mino Blazz Sheet Barry Co.

Mr. Mike Warren Apache Corporation P.O. Box 1849 Eunice, New Mexico 88231

Sincerely,

Pat McCasland

EPI Technical Services Manager

Mike Warren, Apache Corporation, w/enclosure David Urbanski, Apache Corporation, w/enclosure Ben Miller, EPI Vice President and General Manager Sherry Miller, EPI President file

#301 BOX 1558 ... 2100 WEST AVE. 0 ... LUNICE, NEW MEXICO 88231
TELEPHONE 505-391-3181 FAX 585-391-2601

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Artec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fc, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised March 17, 1999

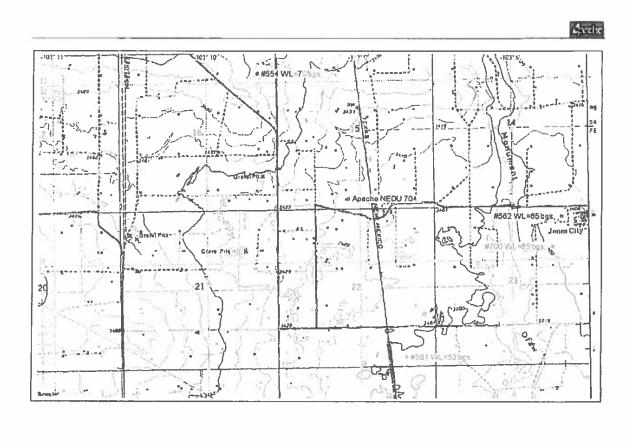
Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

			Relea	se No	tification a	ind Co	rective A	ction			
	OPERA'	TOR					⊠ la	itial Report	☐ Fin	al Report	
Name of Company					Contac				***************************************		
Apache Corporation					Mike Warren						
Address PO Box 1849 1.5 miles North of Eunice Eunice, New Mexico 88231					Telephone No.						
		s North of Eur	nice Euni	ce, New	Mexico 8823						
Facility Na. NEDU 704						Facility	Type				
NEDU 704	9-18-03					Water injection system 2" fiberglass line					
Surface Ou	mer Miller	d Deck Estate	* ********	Mativa	Mineral Own				I Lease N		
is L.V. "Fla		a prox man	, represe	JUNETAC	Millerial CAA	et		Lease N	Lease No.		
	p bain a								1		
					DCATION		EASE				
Unit Letter	Section	Township	Rango	Feet 60	m the North	South Line Feet from the East/West Line			- 1 00001113	: Lea	
15	15	T215					74.5%			2° 28' 28.3"N	
-	1	1	R37E						Lon. II	103° 09' 10.4"W	
					NATURE O	F RELE	ASE				
Type of Rek						Volume o			Volume Rec	overed	
Produced W						500 bbls			0.0 bbls be		
Source of Re		" fiberglass line	_				iour of Occum	ince		of Discovery	
Was Immedi			-				3:00 AM		9-18-03 @ 8	9-18-03 @ 8:20 AM	
Was inducti	mic Monte C		Yes 🗖	No ET	Not Required	If YES, To Whom? Paul Sheeley and Sylvia Dickie					
By Whom?					Trot Itaquatus	Date and Hour					
Pat McCasla	ad. EPI					9-18-03 @ 9:10 AM					
Was a Water		hed? Ye	s X Nu			If YES, Volume Impacting the Watercourse.					
		_	_			NA		g			
	use was Im	pacted, Describ	e Fully.*							<del></del>	
NA			1.44								
Decoils Co	nen a C Beach le	on and Remedi	-1 4 -15 1	Palesa A							
					and is being inv	etiontad					
					and is possible than	augutett.					
Describe An	sa Affected a	und Cleanup Ac	tion Take	3. <sup>6</sup>							
The site will	be delineate	d and remediate	ed in acco	rdance w	kh the NMOCD	guidelines.	Remedial Goal	i: TPH 8015n	1 = 1000 mg/l	Kg, Benzene = 10	
mg/Kg, and   determined :	BIEX, i.e., (	THE MASS SUM O	l'Benzene	Ethyl B	mzene, Toluene,	and Xylene	s = 50 mg/Kg.	A site specifi	c chloride res	idual will be	
nereimmen :	initania usk	assessment.									
I hereby cert	ify that the i	nformation give	n above i	true and	complete to the	best of my	mowledge and	understand th	at augment to	NMOCD rules and	
i reamanous o	ul operators :	are technical lo	report and	or file c	riain release not	Deations an	d necform com	etive actions	for releases u	which many and an are	
E nublic health	I Of the envir	onment. The s	ecentance	ofa C-14	il report by the l	MUCLD on	rhad as "Final	Deport" days	حاد دانده دا		
[ Should their	operations h	ave failed to ad	countely is	rvestical	sand temediate :	ontaminativ	at that some a th	reed to assume	وكالمرواء ومراجعوا	an starton became	
nearm or me	caviroamen	L in eddition, i al laws and/or	NMUCD a	cceptane	e of a C-141 rep	ort does not	relieve the ope	rator of respon	nsibility for c	ompliance with any	
Odki icom	, 545,0, 01 104	AN IRMS STRACT	iekminoou	3.			011 001	NOED111			
Signature:						1	UIL CO	NSERVA'	LION DI	<u>VISION</u>	
						_					
Printed Num	e: Mike Wa	na c-mai	l - mike.w	ruer@s	pachecorp com	Approve	ed by District S	upervisor:			
99143				-				1			
Title: Area !	Supervisor					Approve	al Date:		Expiration I	Dale:	
Date: Sept			Pho	ne: 505.3	194 2743	Conditio	ons of Approva	l:		Attached 🔲	
		nal Sheets	If Nece	SSBTV			approved to			<u> </u>	

Antone

Apache Corporation Site	Incident Day	91	NMOCD Noti	find:
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 Reference #:			
Company: Apache Corporation				
Street Address: 1.5 miles North of Eunice				
Mailing Address: PO Box 1849				
City, State, Zip: Eunice, New Mexico 88231				
Representative: Mike Warren, Area Supervisor				
Representative Telephone: 505.394.2743				
Telephone:				
Fluid volume released (bbls): 500 bbls   Recovered (bbls): 0.0 bbls   Recovered (bbls): 0.0 bbls   September   Recovered (bbls): 0.0 bbls   Recovered (bbls): 0.0				
(A) so applies to unauthorized releases >500 mc [Natural Gas)				
5-25 bbls: Submit form C-141 within 15 days (Also applies to unauthorized releases of 50-500 mc (Natural Gas)				
Leak, Spill, or Pit (LSP) Name: NEDU 704 9-18-03				
Source of contamination: Water injection system line				
Land Owner, i.e., BLM, ST, Fee, Other: Millard Deck Estate; representative is L.V. "Flap" Sims It				
LSP Dimensions 900' NWtoSE x 430'NWtoSW				
LSP Area: 102,527 sqft R <sup>1</sup>				
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'amsl				
Feet from South Section Line				
Feet from West Section Line				
Location- Unit or 14/4: SE/4 of the SW/4 Unit Letter: N				
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' radius of site:				
Agricultural water wells within 1000' radius of site: none				
Agricultural water wells within 1000' radius of site:				
Public water supply wells within 1000' radius of site: none				
Public water supply wells within 1000' radius of site:				
Depth from land surface to ground water (DG) -62'bgs				
Depth of contamination (DC) - ?				
Depth to ground water (DG - DC = DtGW) -				
i. Ground Water		ellhead Protectio	n Arm	3. Distance to Surface Water Body
If Depth to GW <50 feet: 20 points	1f<1000' 6-	m water source, (	u AICE	3. Distance to Surface Water Body <200 horizontal feet: 20 points
If Depth to GW 50 to 99 feet: 10 points	nrivata da-	an water somice' (	20 maless	200-100 horizontal feet: 20 points
	ICS10001 G	rivate domestic water source: 20 points (>1000' from water source, or; >200' from		400-100 nortzonial feet: [li points
If Depth to GW >100 feet: 0 points	DEPOS TO	private domestic water source; 0r, >200' from		>1000 horizontal feet: 0 points
Ground water Score = 10   Wellhead Protection Area Score = 0   Surface Water Score = 0				
Site Rank (1+2+3) = 10				
Total Site Ranking Score and Acceptable Concentrations				
				0-9
		10 ppm 50 ppm		10 ppm
				50 ppm
TPH 100 ppm 1000 ppm 5000 ppm 5000 ppm 5000 ppm				
- 20 ppm neid 100 nearphace measurement may be substituted for tab analysis				

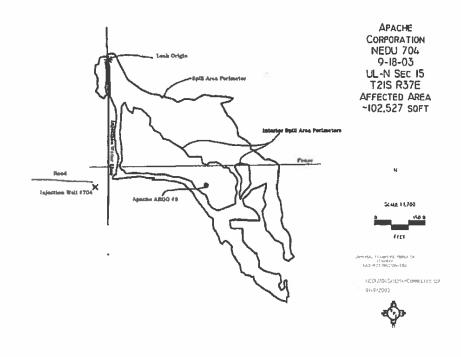
NEDU #704 9-17-03



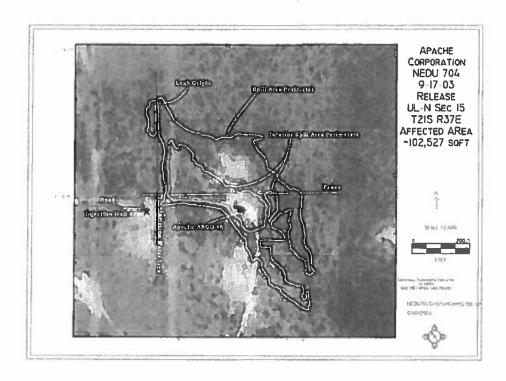
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NEDU #704 9-17-03



Released to Imaging: 6/22/2022 10:27:56 AM



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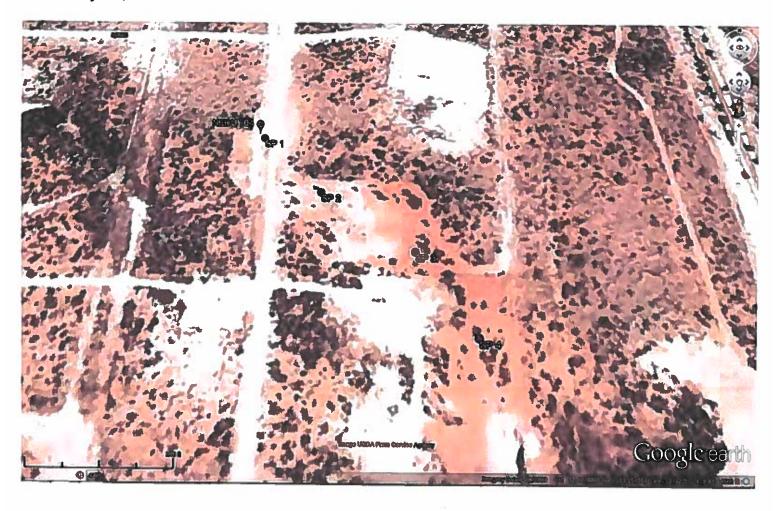
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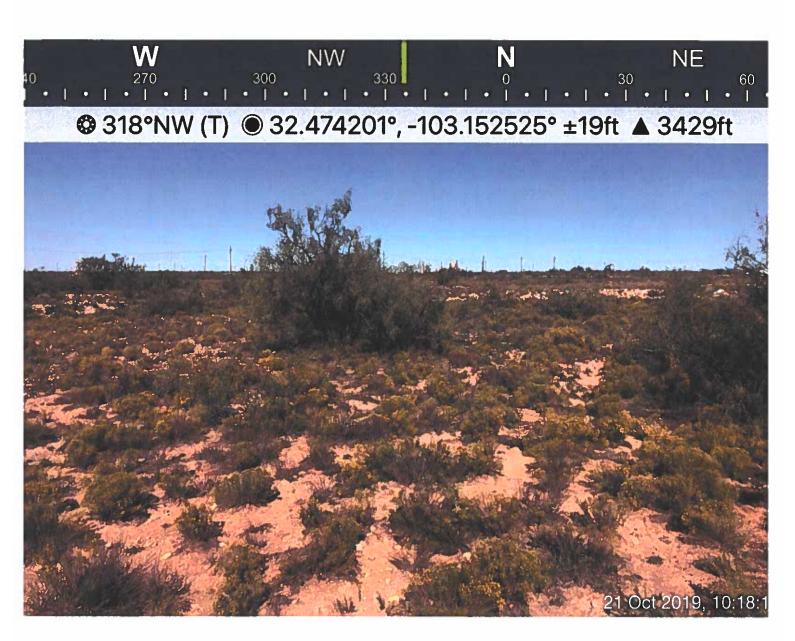
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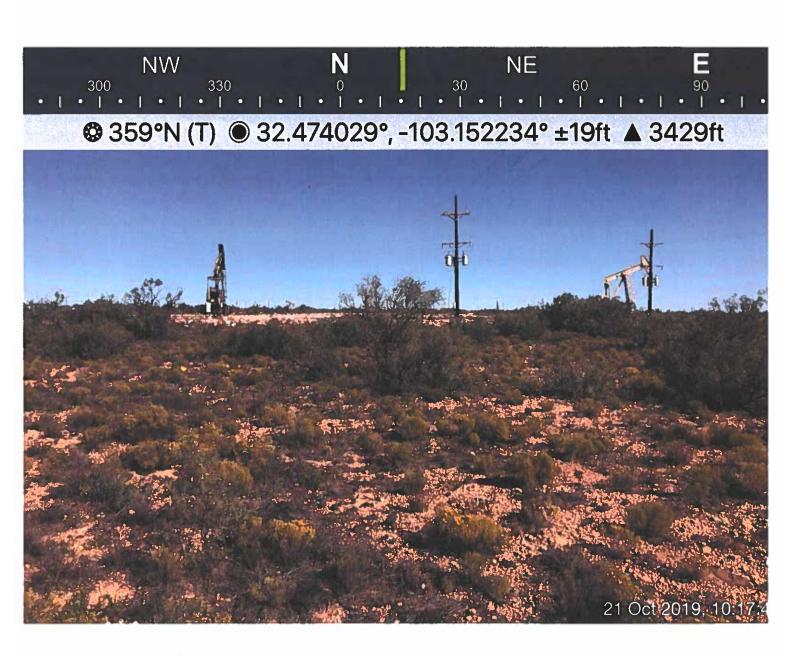


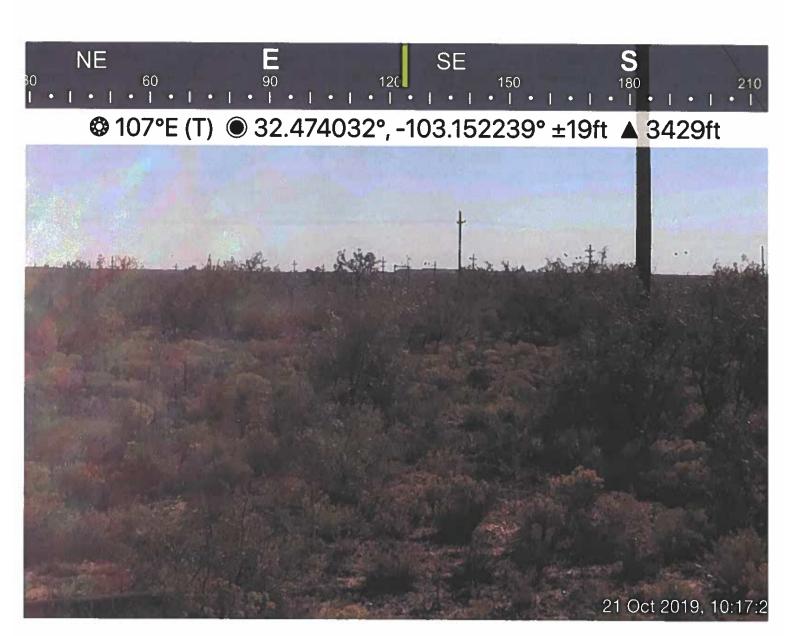
2019



### APPENDIX D CURRENT SITE PHOTOGRAPHY





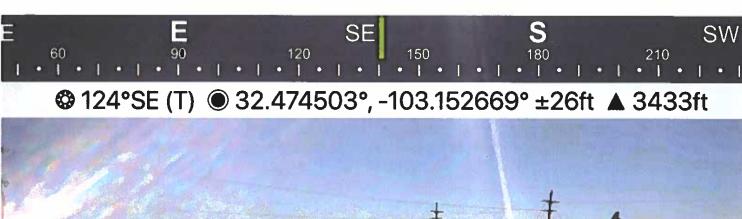






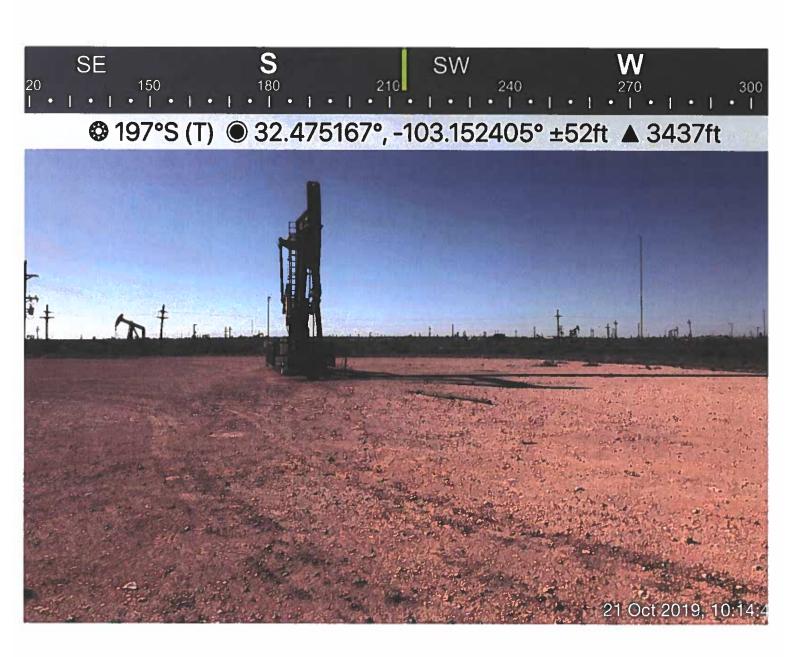




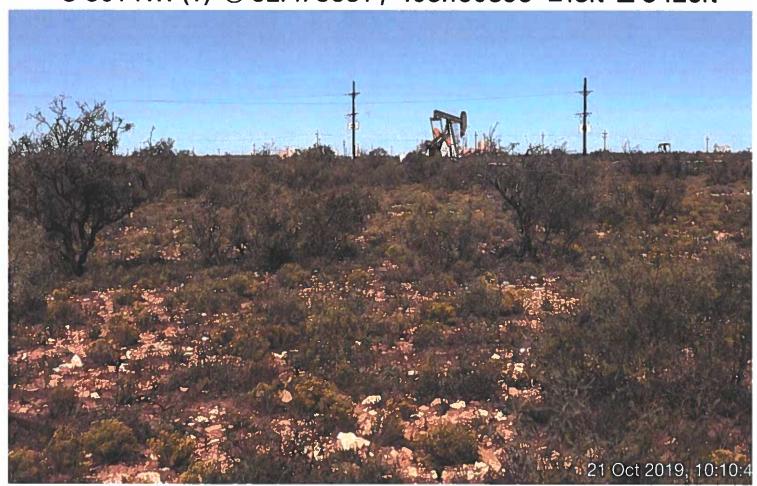






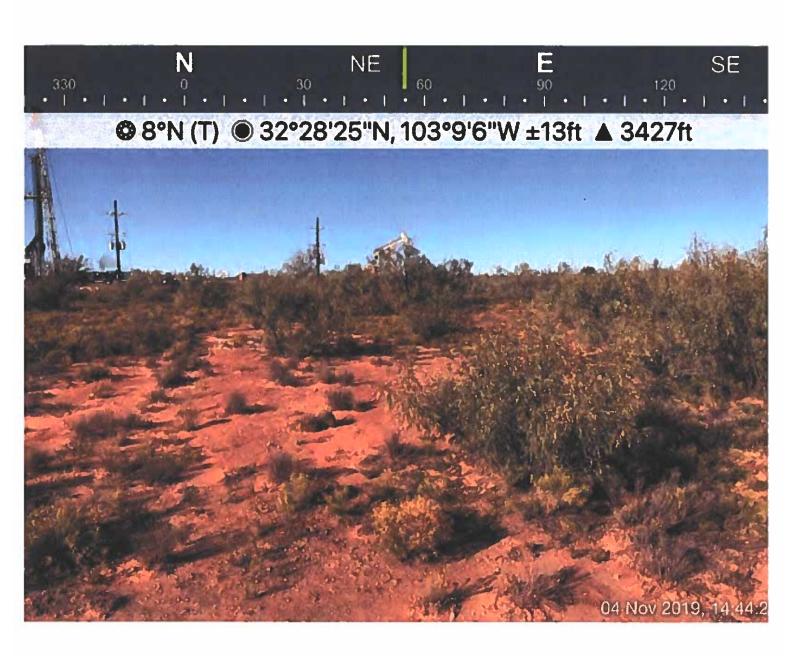


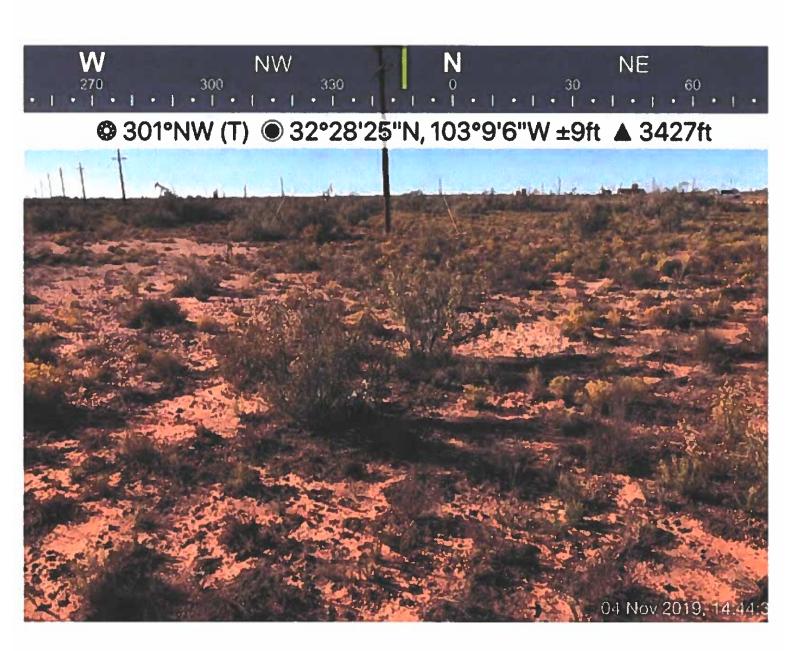


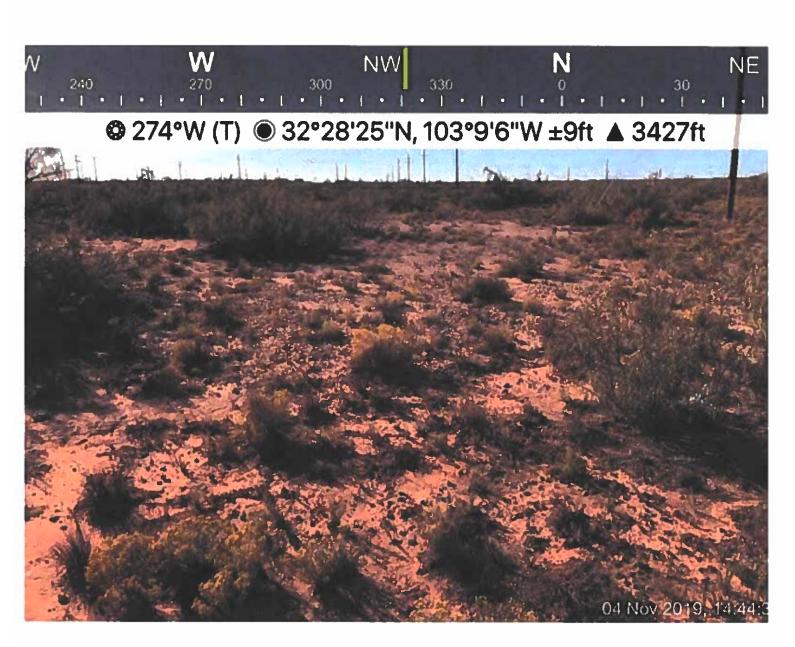


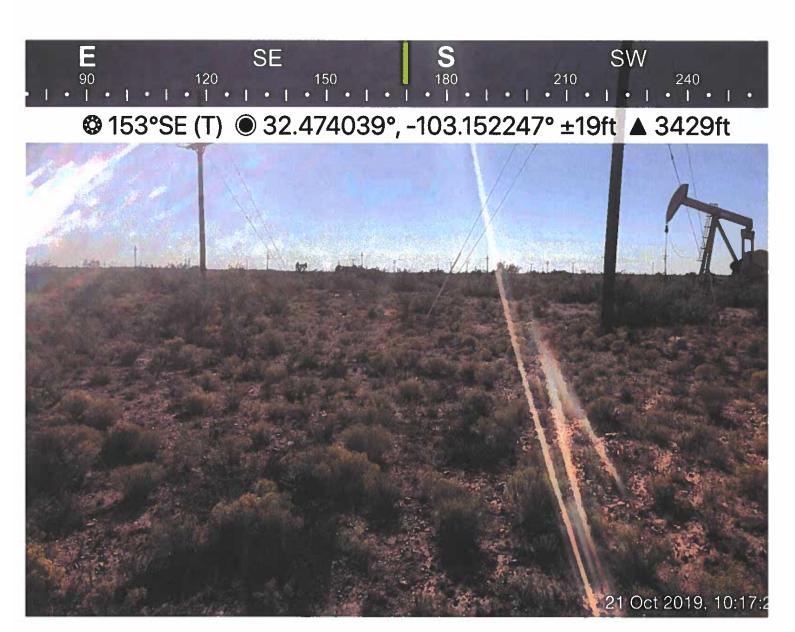
21 Oct 2019, 10:09:







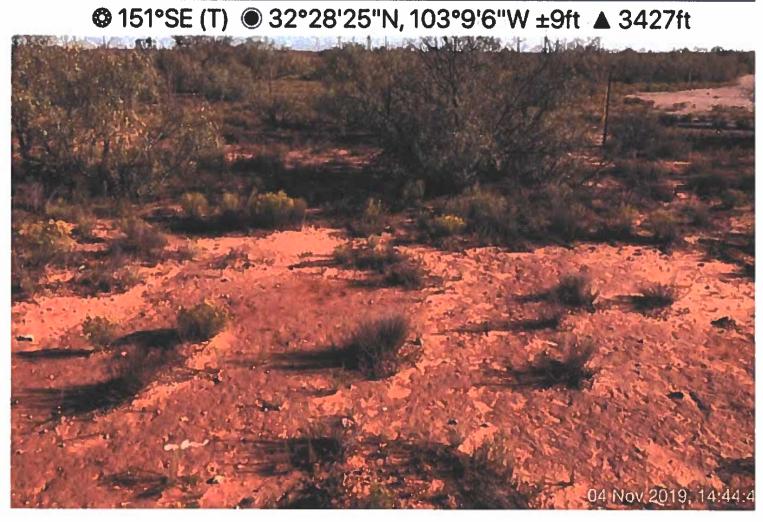








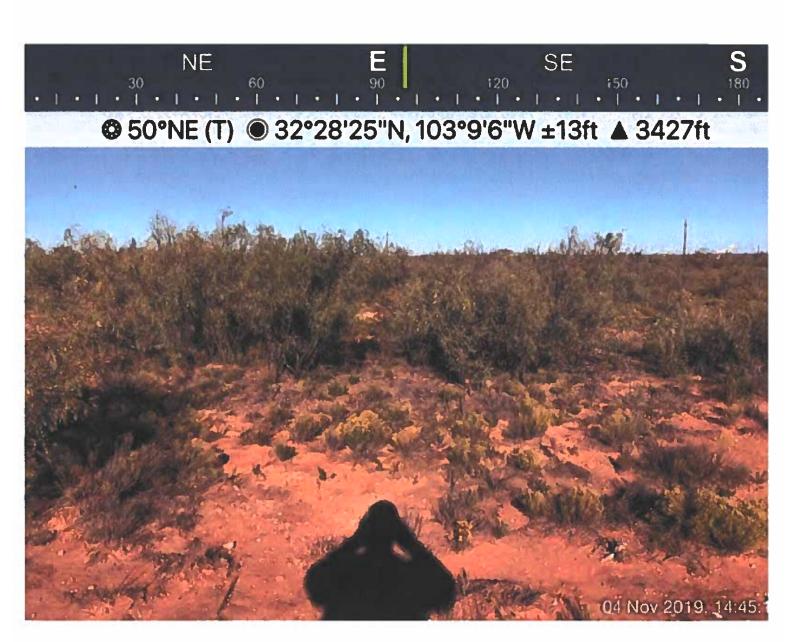


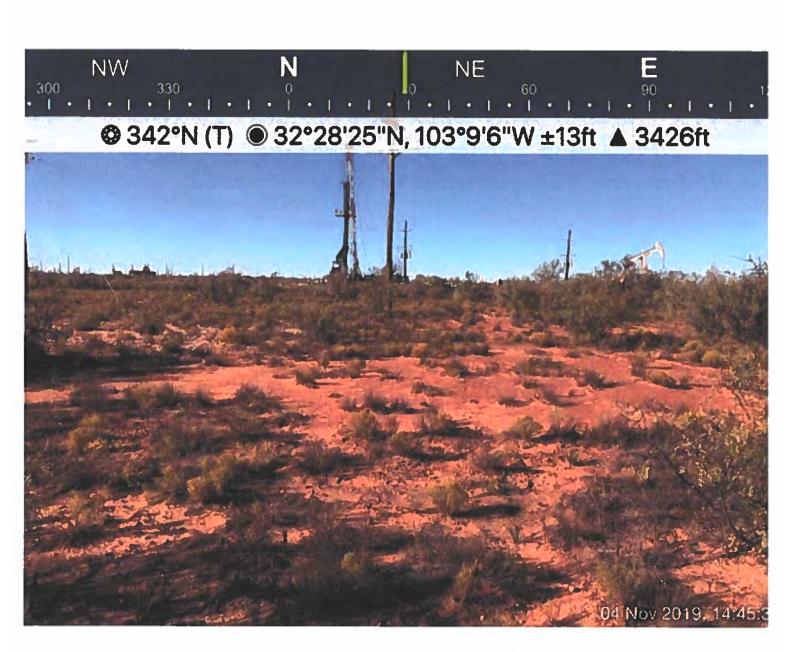




**②** 105°E (T) **③** 32°28'25"N, 103°9'6"W ±9ft ▲ 3427ft







## 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 <a href="https://www.tceq.texas.gov/field/ga/lab-accred-certif.html">www.tceq.texas.gov/field/ga/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.

Celey & 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

Page 1 of 13



### 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 NONE GIVEN Sample Received By:

Tamara Oldaker

Project Location:

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	
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	93.2	% 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	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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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 13



### Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 08/22/2019 08/27/2019

Project Name:

NEDU #704 Project Number: NONE GIVEN Project Location: NONE GIVEN Sampling Date:

08/22/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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

BTEX 8021B

mg/kg

Analyzed 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 %

73.3-129

Chloride, SM4500CI-8	mg/kg		Analyzed 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 %

37.6-147

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\*=Accredited Analyte

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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: Reported: 08/22/2019

08/27/2019 NEDU #704

Project Name: Project Number:

NONE GIVEN

Project Location:

NONE GIVEN

Sampling Date:

08/22/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

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	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	% 73.3-12	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	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	B\$	% 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							
Surrogate: 1-Chlorooctadecane	90.3	% 37.6-14	7						

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\*=Accredited Analyte

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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 08/27/2019

Reported: Project Name:

**NEDU #704** NONE GIVEN

Project Number: Project Location:

NONE GIVEN

Sampling Date:

08/22/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

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

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	91.4	% 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	08/26/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS	8				
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	75.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	81.5	% 37.6-14	7						

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### Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

08/22/2019

Sampling Date:

08/22/2019

Reported:

08/27/2019

Sampling Type:

Soil

Project Name:

NEDU #704 NONE GIVEN

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

Project Number:

Project Location:

NONE GIVEN

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	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 (PIE

91.7%

73.3-129

esult 16.0	Reporting Limit	Analyzed	Method Blank	BS	0/ Deserven	T 14-1 00		
16.0				03	% Recovery	True Value QC	RPD	Qualifier
	16.0	08/26/2019	ND	416	104	400	0.00	
mg/	/kg	Analyze	d By: MS					
esult	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
10.0	10.0	08/26/2019	ND	192	95.8	200	0.189	
10.0	10.0	08/26/2019	ND	190	95.0	200	4.12	
10.0	10.0	08/26/2019	ND					
	mg/ esult 10.0 10.0 10.0	10.0 10.0 10.0 10.0	esult Reporting Limit Analyzed  10.0 10.0 08/26/2019  10.0 10.0 08/26/2019	esult Reporting Limit Analyzed Method Blank 10.0 10.0 08/26/2019 ND 10.0 10.0 08/26/2019 ND	esult Reporting Limit Analyzed Method Blank BS 10.0 10.0 08/26/2019 ND 192 10.0 10.0 08/26/2019 ND 190	esult Reporting Limit Analyzed Method Blank BS % Recovery 10.0 10.0 08/26/2019 ND 192 95.8 10.0 10.0 08/26/2019 ND 190 95.0	esult Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 10.0 10.0 08/26/2019 ND 192 95.8 200 10.0 10.0 08/26/2019 ND 190 95.0 200	esult Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD  10.0 10.0 08/26/2019 ND 192 95.8 200 0.189  10.0 10.0 08/26/2019 ND 190 95.0 200 4.12

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:

**BTEX 8021B** 

08/27/2019

Sampling Type:

Soil

Project Name:

NEDU #704 NONE GIVEN

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

Project Number: Project Location:

NONE GIVEN

ma/ka

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

	,,,,,,,	``*							
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 Xyienes*	<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	9289	6 73.3-129	)						
Chloride, SM4500CI-B	mg/l	kg	Analyze	d By: AC					
Analida	Docult	Deporting Limit	Analyzed	Method Dlank	DC.	94 Darmiani	Teuro Valuo OC	nnn.	Ouglifion

Analyzed By: ms

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	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*	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 37.6-147

Surrogate 1-Chlorooctadecane

115%

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### Analytical Results For:

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

Fax To:

(575) 393-2432

Analyzed Ry: me

Received:

08/22/2019

Sampling Date:

08/22/2019

Reported:

RTFY 8021B

08/27/2019

Sampling Type:

Soil

Project Name:

**NEDU #704** NONE GIVEN

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

Project Number: Project Location:

NONE GIVEN

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

Result								
	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	08/24/2019	ND	1.68	83.8	2.00	3.40	
<0.050	0.050	08/24/2019	ND	1.84	92.2	2.00	1.47	
<0.050	0.050	08/24/2019	ND	1.98	98.8	2.00	1.53	
<0.150	0.150	08/24/2019	ND	5.90	98.3	6.00	1.11	
<0.300	0.300	08/24/2019	ND					
93.7	% 73.3-12	9						
mg/	'kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
16.0	16.0	08/26/2019	ND	416	104	400	0.00	
mg/	'kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	08/26/2019	ND	192	95.8	200	0.189	
<10.0	10.0	08/26/2019	ND	190	95.0	200	4.12	
<10.0	10.0	08/26/2019	ND					
75.8	% 41-142	!						
83.7	% 37.6-14	7						
	<0.050 <0.050 <0.150 <0.300  93.7  mg/  Result 16.0  mg/  Result <10.0 <10.0 <75.8	<0.050 0.050 <0.050 0.050 <0.150 0.150 <0.300 0.300  93.7 % 73.3-12  mg/kg  Result Reporting Limit  16.0 16.0  mg/kg  Result Reporting Limit <10.0 10.0 <10.0 10.0 <10.0 10.0	<ul> <li>&lt;0.050</li></ul>	<0.050	<0.050	<0.050	<0.050	<0.050

Cardinal Laboratories

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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:

BTEX 8021B

08/22/2019 08/27/2019

Reported:

Project Name:

Project Number: Project Location: NEDU #704 NONE GIVEN

mg/kg

NONE GIVEN

Sampling Date:

08/22/2019 Sampling Type: Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

		<u> </u>							
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 (PIE	93.0	% 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	<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	78.3	% 41-142				17 5			
Surrogate: 1-Chlorooctadecane	86.1	% 37.6-14	7						

Analyzed By: ms

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### Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 08/22/2019

Project Name:

08/27/2019 NEDU #704 NONE GIVEN

Project Number: Project Location:

NONE GIVEN

Sampling Date:

08/22/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

BTEX 8021B

mg/kg

Analyzed By: ms

Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	08/24/2019	ND	1.68	83.8	2.00	3.40	
<0.050	0.050	08/24/2019	ND	1.84	92.2	2.00	1.47	
<0.050	0.050	08/24/2019	ND	1.98	98.8	2.00	1.53	
<0.150	0.150	08/24/2019	ND	5.90	98.3	6.00	1.11	
<0.300	0.300	08/24/2019	ND					
	Result <0.050 <0.050 <0.050 <0.150	<0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150	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

Surrogate: 4-Bromofluorobenzene (PIL

91.9%

73.3-129

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC			<u>.</u> .			
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	% 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	
		10.0	08/26/2019	ND					

Surrogate: 1-Chlorooctane

92.6 %

41-142

Surrogate: 1-Chlorooctadecane

102 %

37.6-147

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### Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 08/22/2019 08/27/2019

101%

37.6-147

Project Name: Project Number:

NEDU #704 NONE GIVEN Project Location: NONE GIVEN

Sampling Date:

08/22/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

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

BTEX 8021B	mg/kg		Analyzed By: ms						_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2019	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 (PIE	93.4	% 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	<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	% 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	% 41-142							

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Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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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
- 1	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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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

P.O. #:	
Company:	
Attn:	
Address:	
City:	
State: Zip:	
Phone #:	
Fax #:	
Н	
SE:	X
OIL SLUDGI OTHER ACID/B/ ICE / CO	CL EXT BTE
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	V.V. V.
	V,V,V
<b>*</b>	
\$/22/19	
ased in contract or lost, shall be limited to the amount paid by the client for de in writing and recoved by Cardinal within 30 days after comoletion of the s interruptions, loss of use, or loss of profits incurred by client, its subsidia	rote. septimization
Phone Re	sult: D Yes D No Add'l Phone #:
KA WICHARKS	
EMAI	to Bruce and sett
요	
4	
	Actin:  Address:  City:  State: Zip:  Phone #:  Preservy Sampling  ACID/BASE:  ICE / COOL  OTHER:  ACID/BASE:  ICE / COOL  OTHER  ACID/BASE:  ICE / COOL  ACID/BASE:  ICE / COOL  ACID/BASE:  ICE / COOL  ACID/BASE:  ICE

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

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

Action 2447

### **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
bbilling	gs None	6/22/2022