

Imagine the result

INFORMATION ONLY

Remediation deferral request for 1RP-4637 denied until delineation is completed.

Apache Corporation

NEDU CTB Remediation Deferment 1RP-4637

Lea County, New Mexico

January 18, 2018

NEDU CTB 1RP4637 Remediation Deferment

Korey Kennedy Staff Scientist

Prepared for: Apache Corporation Lea County, New Mexico

Prepared by: ARCADIS U.S., Inc. 1004 North Big Spring Street Suite 300 Midland Texas 79701 Tel 432 687 5400 Fax 432 687 5401

Our Ref.: MT001200.0000.0000

Date: January 18, 2018

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Remediation Deferment

Apache Corporation Lea County, New Mexico

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Remediation Deferment

Apache Corporation Lea County, New Mexico

1. INTRODUCTION

The subject site is located on the facility pad at 32.487146 and -103.14672 in Unit O, Section 10, T21S, R37E in Lea County. The site is operated by Apache Corporation.

2. SUMMARY OF SITE INVESTIGATION ACTIVITIES

The New Mexico Oil Conservation Division (NMOCD), Olivia Yu, and the State Land Office (SLO), Amber Groves, were notified of a release that occurred on March 2, 2017 where 170 barrels (bbls.) of produced water were released, and 150 barrels (bbl.) of produced water were recovered at the site via form C-141, submitted on March 10, 2016 by Bruce Baker with Apache Corporation. The surface is managed by the state for this area.

The release was reported to have had a small hole develop in the flanged ball valve on the bottom side of the storage tank. A vacuum truck was dispatched to pick-up the standing fluid and the valve was replaced. All standing fluid was contained on the well pad area (482 square yards) inside of a solid bermed containment to prevent fluid from leaving the site.

Initial sampling and mapping of site took place on March 9, 2017 with the surface analyzed at 13,200 mg/kg and 4240 mg/kg at 6-inches bgs. where a solid calcified soil type was encountered. The soil sampling point is shown on Figure 1. The laboratory results are attached in Appendix C.



Remediation Deferment

Apache Corporation Lea County, New Mexico



Figure 1: Sample Point Locations

3. ENVIRONMENTAL ASSESSMENT

3.1 Hydrology

Groundwater depths are not found within the direct area (Waters Map), but can be found in neighboring sections using a 2,000-meter area and averaging depth at 50 feet bgs. There is no surface water near this release site or water wells within 1,000 ft.

The site ranking for this site is a 20 based on the following:

Depth to ground water	~50' = 20
Wellhead Protection Area	>1000' = 0
Distance to surface water body	>1000' = 0



Remediation Deferment

Apache Corporation Lea County, New Mexico

4. REMEDIATION PLAN

After review of various remedial options, the following Remediation Plan was completed for this release site:

4.1 Soil Remediation Plan

The site where the release occurred is setting upon a very solid hardpan of calcium carbonate. Samples were taken at surface and some scrapings of the calcium carbonate located at 6-inches bgs. were taken to Cardinal Laboratories to be analyzed. The release occurred inside a large facility. The fluid from the release ran to the southeast corner of the facility area where the fluid was recovered due to the hard calcium carbonate subsurface. There was 20 bbl. that was not picked up, which covered an area of 482 square yards. This area has a 4 ft. bermed area and no fluids, even during terrestrial rains, could leave the facility area. The surface area of contamination has been scraped to remove any contaminated surface soils.

5. FOLLOW-UP SCHEDULE

It is requested that this site will be re-evaluated at time of decommissioning. Apache requests deferment of the site until abandonment.





Appendix A

Attachments

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Salita FC, INVI 87303										
Release Notification and Corrective Action										
		OPERATOR	Initial Report	Final Report						
Name of Company Apache Corporation	Contact Bruce Baker									
Address 2350 W Marland Street, Hobbs, NM 8	Telephone No. (432) 631-6982									
Facility Name NEDU Central Tank Battery		Facility Type Battery								
Surface Owner State		API No. 30-025-3 well)	34602 (nearest							

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
0	10	21S	37E					Lea

Latitude <u>32.487146</u> Longitude <u>-103.14672</u>

NATURE	E OF RELEASE						
Type of Release Produced water	Volume of Release 170 barrels of produced water	Volume Recovered 150 barrels of produced water					
Source of Release valve on water tank	Date and Hour of Occurrence 3/1/2017	Date and Hour of Discovery 3/1/2017					
Was Immediate Notice Given?	If YES, To Whom? Olivia Yu (NMOCD)						
By Whom? Bruce Baker	Date and Hour 3/2/2016 at 3:30 p.	.m. via phone					
Was a Watercourse Reached?	If YES, Volume Impacting the Wat	tercourse.					
If a Watercourse was Impacted, Describe Fully.*							
Describe Cause of Problem and Remedial Action Taken.* A small hole developed on the four inch flanged ball valve on the bottom of the tank. Vacuum trucks were dispatched to pick-up standing fluid and the valve was replaced.							
Describe Area Affected and Cleanup Action Taken.* The entire release was contained to the facility.	By Olivia Yu at 8	:49 am, Mar 10, 2017					
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 notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.							
Signature: Bruce Bacher	OIL CONSERV	VATION DIVISION					
Printed Name: Bruce Baker	Approved by Environmental Specialis	st:					
Title: Environmental Technician	Approval Date: 3/10/2017	Expiration Date:					
E-mail Address: larry.baker@apachecorp.com Date: 3/10/2017 Phone: (432) 631-6982	Conditions of Approval: see attached directive	Attached					

* Attach Additional Sheets If Necessary

1RP-4637

nOY1706931789

pOY1706933252

Operator/Responsible Party,

The OCD has received the form C-141 you provided on _3/10/2017__ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number __1R-_4637_ has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District _1_ office in __Hobbs____ on or before _4/10/2017_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

• Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

• Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

• Nominal detection limits for field and laboratory analyses must be provided.

• Composite sampling is not generally allowed.

• Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the (R=POD has been POD suffix indicates the replaced, POD has been replaced O=orphaned, (quarters are 1=NW 2=NE 3=SW 4=SE) & no longer serves a C=the file is water right file.) (quarters are smallest to largest) (NAD83 UTM in meters) (In feet) closed) POD Sub-QQQ Water **POD Number** Code basin County 64 16 4 Sec Tws Rng Y DistanceDepthWellDepthWater Column Х CP 00554 CP LE 2 2 16 21S 37E 672744 3595610* 1270 80 70 10 CP 3597338* 🌑 CP 00286 POD1 LE $2\quad 1\quad 2\quad 10$ 21S 37E 674019 1307 70 CP 00729 POD1 CP LE 4 1 3 15 21S 37E 673259 3594711* 1488 8015 CP 01185 POD1 CP LE 1 3 14 21S 37E 674598 3594689 1495 70 CP 01185 POD2 CP LE 14 21S 37E 674623 3594674 1519 70 1 3 CP 01110 POD1 21S 37E 3594648 CP LE 1 3 14 674586 1526 70 CP LE 1 3 14 21S 37E 674586 3594648 🍋 1526 70 CP 01110 POD2 CP 21S 37E 70 CP 01110 POD3 LE 1 3 14 674586 3594648 1526 1 3 14 CP 01110 POD4 CP LE 21S 37E 674586 3594648 1526 20 37E CP 01110 POD5 CP LE 21S 674586 3594648 1526 1 3 14 20 21S 37E 3594620 CP 01185 POD3 CP LE 1 3 14 674592 1555 70 CP 2 4 4 15 21S 37E 674559 3594598 57 11 CP 01574 POD1 LE 1561 68 21S 37E CP 01185 POD4 CP LE 1 3 14 674633 3594610 1581 70 CP 01574 POD2 CP LE 1 3 3 14 21S 37E 674666 3594578 1624 68 57 11 CP 01141 POD3 CP LE 15 21S 37E 673520 1810 40 3594272 CP 01141 POD2 CP LE. 15 21S 37E 673543 3594250 1826 40 CP LE 15 21S 37E CP 01141 POD4 673556 3594239 🦲 1834 45 21S CP 01575 POD1 CP LE 1 2 1 22 37E 673544 3594204 1870 40 35 5 CP 01575 POD2 2 2 1 22 218 37E CP LE 673615 3594181 🌑 1880 35 35 0 Average Depth to Water: 50 feet 35 feet Minimum Depth: 70 feet Maximum Depth: Record Count: 19 UTMNAD83 Radius Search (in meters): Easting (X): 673942 **Northing (Y):** 3596033 **Radius: 2000** *UTM location was derived from PLSS - see Help The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data

6/22/17 7:02 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



Appendix B

Laboratory Analyticals



March 16, 2017

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

RE: NEDU CENTRAL TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/09/17 14:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

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

Received:	03/09/2017	Sampling Date:	03/09/2017
Reported:	03/16/2017	Sampling Type:	Soil
Project Name:	NEDU CENTRAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 0' (H700616-01)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2017	ND	2.16	108	2.00	0.812	
Toluene*	<0.050	0.050	03/14/2017	ND	2.01	101	2.00	1.18	
Ethylbenzene*	<0.050	0.050	03/14/2017	ND	2.00	100	2.00	1.33	
Total Xylenes*	<0.150	0.150	03/14/2017	ND	5.72	95.4	6.00	1.43	
Total BTEX	<0.300	0.300	03/14/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	6 72-148							
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13200	16.0	03/10/2017	ND	416	104	400	3.77	
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	03/10/2017	ND	186	93.0	200	0.653	
DRO >C10-C28	<10.0	10.0	03/10/2017	ND	196	97.9	200	1.20	
Surrogate: 1-Chlorooctane	88.9 9	25.1-158	8						
Surrogate: 1-Chlorooctadecane	78.9 %	26.8-170)						

Cardinal Laboratories

*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	03/09/2017	Sampling Date:	03/09/2017
Reported:	03/16/2017	Sampling Type:	Soil
Project Name:	NEDU CENTRAL TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 6" (H700616-02)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2017	ND	2.16	108	2.00	0.812	
Toluene*	<0.050	0.050	03/14/2017	ND	2.01	101	2.00	1.18	
Ethylbenzene*	<0.050	0.050	03/14/2017	ND	2.00	100	2.00	1.33	
Total Xylenes*	<0.150	0.150	03/14/2017	ND	5.72	95.4	6.00	1.43	
Total BTEX	<0.300	0.300	03/14/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	5 72-148							
Chloride, SM4500Cl-B	mg/l	g	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	03/10/2017	ND	416	104	400	3.77	
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	03/10/2017	ND	186	93.0	200	0.653	
DRO >C10-C28	<10.0	10.0	03/10/2017	ND	196	97.9	200	1.20	
Surrogate: 1-Chlorooctane	91.6%	6 25.1-158	}						
Surrogate: 1-Chlorooctadecane	78.5 %	6 26.8-170)						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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Appendix C

Photos

PHOTOGRAPH LOG



Apache Corporation NEDU CTB 1RP4637





Photograph: 1

Description: Spill path

Location: NEDU CTB; Lea County, NM

Photograph taken by: Jennifer Van Curen

Date: 6/22/2017

Photograph: 2

Description: Spill path

Location: NEDU CTB; Lea County, NM

Photograph taken by: Jennifer Van Curen

Date: 6/22/2017

PHOTOGRAPH LOG

Apache Corporation NEDU CTB 1RP4637





Photograph: 3

Description: Spill path

Location: NEDU CTB; Lea County, NM

Photograph taken by: Jennifer Van Curen

Date: 6/22/2017



Photograph: 4

Description: Spill path

Location: NEDU CTB; Lea County, NM

Photograph taken by: Jennifer Van Curen

Date: 6/22/2017

PHOTOGRAPH LOG



Apache Corporation NEDU CTB 1RP4637



Photograph: 5

Description: Spill path

Location: NEDU CTB; Lea County, NM

Photograph taken by: Jennifer Van Curen

Date: 6/22/2017

Photograph: 6

Description: Spill path

Location: NEDU CTB; Lea County, NM

Photograph taken by: Jennifer Van Curen

Date: 6/22/2017

