

September 30, 2019

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

RE: 1RP-903 State C Tract 12 Battery

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 May 12, 2006. 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 August 29, 2019

Trinity Oilfield Services & Rentals, LLC

Environmental Site Summary & Closure Request



Company: Apache Corporation Address: 2530 W. Marland St., Hobbs, NM 88240Telephone #: (575) 393-7106
Site Name: State C Tract 12 Battery NMOCD Reference#: 1RP-903
Surface Owner: State of New Mexico Mineral Owner: State of New Mexico
Unit Letter: C Section: 16 Township: 21S Range: 37E County: Lea GPS Coordinates: 32.482402 N -103.172293 W
Date/Time of Release:5/12/2006 Type of Release: 🗹 Crude Oil 🗹 Produced Water
Volume(s) Released: 35 bbls (total fluid) Volume(s) Recovered: 25 bbls
Closure Criteria for Impacted Soil (mg/kg; See Appendix C, "Closure Criteria Justification"):
Benzene: <u>10</u> BTEX: <u>50</u> GRO+DRO: <u>1,000</u> TPH: 100 Chloride: 600 2,500 10,000 20,000
Background Information:
On May 12, 2006, Apache Corporation discovered a release at the State C Tract 12 Battery. Failure of a fire tube gasket on a heater treater resulted in the release of approximately 35 barrels (bbls) of a mixture of crude oil and produced water. The majority of the spill was confined to the earthern containment berm surrounding the heater treater, but overspray from the release impacted a small area of the adjacent pasture. During initial response activities, the gasket was repaired or replaced, and a vacuum truck was utilized to recover approximately 25 bbls of free-standing liquid. The release was immediately reported to the New Mexico Oil Conservation Division's (NMOCD) Hobbs District Office.
The NMOCD "Release Notification & Corrective Action" form (C-141) is provided as Appendix A. A "Site Location Map" is provided as Figure 1.
At some point following the release, additional remediation of the affected area took place. However, no extant documentation or work records of such activities could be located. In addition, no records or analytical results from soil sampling could be obtained from Cardinal Laboratories, as the Environmental Protection Agency's (EPA) mandated time period for record retention has elapsed.
On July 25, 2019, Apache requested Trinity Oilfield Services & Rentals, LLC (Trinity), assume remediation activities at the release site.
Summary of Field Activities:
On August 2, 2019, representatives of Trinity conducted a sampling event to assess the current state of the site. A hand auger was utilized to advance a series of 3 boreholes (SP-1 through SP-3) in the inferred affected area inside the containment to investigate the extent of impacted soil. The auger holes were advanced to total depths of 2 feet below ground surface (bgs). Soil samples were collected at 1-foot vertical intervals, and confirmation samples were submitted to Cardinal Laboratories in Hobbs, New Mexico, for analysis of chloride, total petroleum hydrocarbons (TPH), and benzene, toluene, ethylbenzene, and total xylene (BTEX) concentrations using Environmental Protection Agency (EPA) Methods 4500-CI B, SW 846-8015 Mod, and SW 846-8021B, respectively.
Laboratory analytical results indicated TPH and BTEX constituent concentrations were below the laboratory method detection limit (MDL) in all submitted soil samples. Chloride concentrations ranged from 16.0 mg/kg (soil samples SP-1 @ Surface, SP-2 @ Surface, SP-2 @ 1', SP-2 @ 2', and SP-3 @ 1') to 80.0 mg/kg (SP-3 @ 2').
Locations of the auger holes are depicted in Figure 2, "Sample Location Map (2009 Aerial)", and Figure 3, "Sample Location Map (2019 Aerial)". Laboratory analytical results are summarized in Table 1, and an analytical report is provided in Appendix C.

Trinity Oilfield Services & Rentals, LLC

Environmental Site Summary & Closure Request



Site Closure Request:

Soil samples collected from the inferred impacted area were analyzed by an NMOCD-approved laboratory, and concentrations of chloride, TPH, and BTEX were below the Closure Criteria listed in Table I of Section 19.15.29.12 of the New Mexico Administrative Code (NMAC) for a site where depth to groundwater is 51-100 feet bgs (see Appendix B, "Closure Criteria Justification", for more information). Based on these laboratory analytical results, the initial response and subsequent activities conducted at the site in 2006 were effective in remediating the release. Trinity, on behalf of Apache, hereby requests the NMOCD and NMSLO grant closure to the State C Tract 12 Battery release site.

Enclosures:

Figure 1: Site Location Map Figure 2: Sample Location Map (2009 Aerial) Figure 3: Sample Location Map (2019 Aerial) Table 1: Concentrations of Benzene, BTEX, TPH & Chloride in Soil Appendix A: Release Notification & Corrective Action (Form C-141) Appendix B: Closure Criteria Justification Appendix C: Laboratory Analytical Results

8/29/2019 Ben J. Arguijo **Project Manager**

Figures







Tables

TABLE 1 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

APACHE CORPORATION STATE C TRACT 12 BATTERY LEA COUNTY, NEW MEXICO NMOCD REFERENCE #: 1RP-903



SAMPLE LOCATION	SAMPLE DEPTH (BGS)	DEPTH			EPA S	N-846 Metho	1 80218			EPA SW	-846 Metho	d 8015M		4500-CI B
			DEPTH		SOIL STATUS	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL- BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	TOTAL BTEX (mg/kg)	GRO C6-C12 (mg/kg)	DRO C12-C28 (mg/kg)	GRO+ DRO (mg/kg)	MRO C28-C35 (mg/kg)
I NMO	CD Closure L	imits (mg/kg)		10	NE	NĘ	NE	; 50	NE	NE	1,000	NË	2,500	10,000
										becchinget acti		Constanting of	1	
SP-1 @ Surface	Surface	8/2/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SP-1 @ 1'	1'	8/2/2019	In-Situ	< 0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SP-1 @ 2'	2'	8/2/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SP-2 @ Surface	Surface	8/2/2019	In-Situ	<0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SP-2 🖸 1'	1'	8/2/2019	In-Situ	<0.050	< 0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SP-2 @ 2'	2'	8/2/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SP-3 🛱 Surface	Surface	8/2/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SP-3 @ 1'	1'	8/2/2019	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SP-3 👩 2'	2'	8/2/2019	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0

NE = Not Established - = Not Analyzed Concentrations in BOLD exceed the NMOCD Closure Limit

Page 1 of 1

Appendices

Appendix A Release Notification & Corrective Action (Form C-141)

SurFacility 6-2-0695			
A. French Dr., Hobbs, NM 88240	of New Mexico Ils and Natural Resources		Form C-141 Revised October 10, 2003
District III Oil Cons 1000 Rio Brazos Road, Aztec, NM 87410 1220 Sol District IV 1220 Sol	servation Division uth St. Francis Dr. Fe, NM 87505	Sut I	omit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form
	on and Corrective Ac	tion	
	OPERATOR	Initial Re	eport 🔲 Final Repo
Name of Company Apache Colp.	Contact John Terev		
Address & Ellison Lane, EUNICE, N.M. Facility Name State CTRact 12 Battery	Telephone No. 505 - 390 Facility Type TQ NK	2-2833 Satterr	
Surface Owner Mineral Owner		Lease No.	
		Lease No.	
	ON OF RELEASE rth/South Line Feet from the FNL Heep Longitude NA	East/West Line Co	unty -£9
NATIE	E OF RELEASE Date	Ila Annue	5/2/06 10:30 a.r
Type of Release OIL + H2O	Volume of Release 35 AR	LS Volume Reco	vered 25 BALS
Source of Release Heater Trater Was Immediate Notice Given?	Date and Hour of Occurrence If YES. To Whom?	Date and Hou	r of Discovery Sizes 1
Yes 🗋 No 🗋 Not Requir	red Lanar	· · ·	on
By Whom? John Terry Was a Watercourse Reached?	Date and Hour 5/12.105 If YES, Volume Impacting th		
Yes I Yes Yes	n 123, volume impacting in	e watercourse.	
Describe Cause of Problem and Remedial Action Taken.* Fire tube Gasket leak on Heater	Treater Treater	1921222324 1921222324 1930 1930 1930 1930 1930 1930 1930 1930	6106127823
Describe Area Affected and Cleanup Action Taken.* Packer Spray and Release inside Back Backbee I hereby certify that the information given above is true and complete regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remedor the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	to the best of my knowledge and un se notifications and perform correcti y the NMOCD marked as "Final Rep diate contamination that pose a threa	derstand that pursuant ve actions for releases port" does not relieve at to ground water, sur	which may endanger the operator of liability face water, human health
Signature:	OIL CONS	ERVATION DI	VISION
Printed Name: John Terry	Approved by District Supervisor		
Tille: Pumper	Approval Date:	Expiration Date	•
E-mail Address:	Conditions of Approval:	A	ttached
Date: 5/12/06 Phone (505) 39.0-283	8		
Date: 2/12/06 Phone (505) 3710-283 Attach Additional Sheets If Necessary facility - f PACOG 15 627942 incident - NPACOG 15 628028 application - pPACOG 15 628228			

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?	70 (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 V 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.

Pield 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	State of New Mexico	
age 4	Oil Conservation Division	Incident ID
age 4	On Conservation Division	District RP
		Facility ID
		Application ID
regulations all operators and public health or the enviro failed to adequately invest addition, OCD acceptance and/or regulations. Printed Name:	re required to report and/or file certain release no nment. The acceptance of a C-141 report by the igate and remediate contamination that pose a th of a C-141 report does not relieve the operator of ruce BAKer we Bahy	the best of my knowledge and understand that pursuant to OCD rules and otifications and perform corrective actions for releases which may endange OCD does not relieve the operator of liability should their operations hav ireat to groundwater, surface water, human health or the environment. In of responsibility for compliance with any other federal, state, or local laws Title: <u>Environmental Tech SR</u> . Date: <u>9/30/19</u> Telephone: <u>432-631-6982</u>
OCD Only		
OCD Only Received by:		Date:

Form C-141 Page 6

State of New Mexico Oil Conservation Division NPAC0615628028

Incident ID	
District RP	1-RP903
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 items 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 must 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 Baker Title: Environmental Tech SR. Signature: Bruce Baher Date: 9/30/19 email: Jarry. baker @apache.comp.com Telephone: 432-631-6982 **OCD Only** Received by: Date: _____ Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations. Closure Approved by: _____ Date: 02/23/2021 E.Spec.A Printed Name: Bradford Billings Title:

Appendix B Closure Criteria Justification

TABLE 2 CLOSURE CRITERIA JUSTIFICATION

APACHE CORPORATION STATE C TRACT 12 BATTERY LEA COUNTY, NEW MEXICO NMOCD REFERENCE #: 1RP-903



Groundwater, Water Wells & Other Water Sources	
Depth to groundwater (ft)?	70
Horizontal distance (ft) from all water sources within 0.5 miles?	N/A
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

Closure Criteria (mg/kg)*							
Benzene	BTEX	GRO + DRO	TPH	Chloride			
10	50	1,000	2,500	10,000			

*Numerical limits or natural background level, whichever is greater







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

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 671688.56

Northing (Y): 3595362.44

Radius: 804.67 (0.5 miles)

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.

(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)	(quarters are 1= (quarters are sm) AD83 UTM in me	ters)	(In feet)	
	POD Sub-	000			2		Denth	Depth W	ator
POD Number	Code basin Coun	And in the other designed in the local division of the local divis	ws Rng	x	Y	Distance		Water Co	
CP 00554	CP LE	2 2 16 2	21S 37E	672744	3595610* 🌍	1084	80	70	1
					Avera	ge Depth to	Water:	70 fee	t
						Minimum	Depth:	70 fee	t
						Maximum	Depth:	70 fee	t

*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.

Appendix C Laboratory Analytical Reports



August 08, 2019

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

RE: STATE C TRACT 12 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/02/19 15:50.

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/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,

Whe Smal



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

Received:	08/02/2019	Sampling Date:	08/02/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	STATE C TRACT 12 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP - 1 SURFACE 32.439341 (H902661-01)

BTEX 8021B	mg/l	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2019	NÐ	1.98	98.9	2.00	0.851	
Toluene*	<0.050	0.050	08/06/2019	ND	2.05	102	2.00	0.652	
Ethylbenzene*	<0.050	0.050	08/06/2019	ND	1.94	96.8	2.00	0.429	
Total Xylenes*	<0.150	0.150	08/06/2019	ND	5.90	98.3	6.00	0.117	
Total BTEX	<0.300	0.300	08/06/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	100 9	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/07/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2019	ND	188	94.0	200	0.506	
DRO >C10-C28*	<10.0	10.0	08/05/2019	ND	189	94.7	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	08/05/2019	ND					
Surrogate: 1-Chlorooctane	91.3 9	6 41-142				0.01			
Surrogate: I-Chlorooctadecane	84.9 9	6 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liabetry and Damages. Cardinal's Bability and client's esclusive refreely for any dam arising, whether based in contract or tort, shall be leneted to the amount paid by client for analyses. All claims, including those for nepligence and any other cause whatsorver shall be deemed waved unless made in writing and necewed by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be lable for incidental or consequential damages, including, without imitable, imitable, imitable, incidental is cardinal be lable, for incidental or consequential damages, including, without, imitable, imitable, imitable, and incidental or consequential damages, including, without, imitable, business interruptions, loss of use, or loss of profits incurred by client, its report shall not be reproduced except in full with writein approvel of Cardinal Laboratories.

mite Sugah



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

Received:	08/02/2019	Sampling Date:	08/02/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	STATE C TRACT 12 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP - 1 @ 1' - 103.174321 (H902661-02)

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	08/06/2019	ND	1.98	98.9	2.00	0.851	
Toluene*	<0.050	0.050	08/06/2019	ND	2.05	102	2.00	0.652	
Ethylbenzene*	<0.050	0.050	08/06/2019	ND	1.94	96.8	2.00	0.429	
Total Xylenes*	<0.150	0.150	08/06/2019	ND	5.90	98.3	6.00	0.117	
Total BTEX	<0.300	0.300	08/06/2019	NÐ					
Surrogate: 4-Bromofluorobenzene (PIE	102 9	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/07/2019	ND	41 6	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2019	ND	188	94.0	200	0.506	
DRO >C10-C28*	<10.0	10.0	08/05/2019	ND	189	94.7	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	08/05/2019	ND					
Surrogate: 1-Chlorooctane	84.6 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	78.2 5	37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liabley and Damages. Cardinal's liablety and clenc's exclusive remedy for any clem ansing, whether based in contract or tort, shall be lamited to the emount paid by clent for analyses. All clemms, including those for negligence and any other ourse whatsoever shall be lamited to the emount paid by clent for analyses. All clemms, including those for negligence and any other ourse whatsoever shall be lamited unless made in writing and incomed by Cardinal within thirty (30) days after completion of the applicable serves. In no event shall Cardinal be lable for incodenced or consequential damages, including, writing, writing, final second any of the services limitations, loss of profits incurred by clent, its subsideries, affikets or successors ensing out of or related to the performance of the services hereunder by Cardinal, regardless of whether such cleam is based upon any of the above stated reasons or otherwes. Results relate only to the samples identified above. This report shall not be reprodued except in full writien approval of Cardinal Laboratories.

mite Sigh



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

Received:	08/02/2019	Sampling Date:	08/02/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	STATE C TRACT 12 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP - 1 @ 2' (H902661-03)

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	08/06/2019	ND	1.98	98.9	2.00	0.851	
Toluene*	<0.050	0.050	08/06/2019	ND	2.05	102	2.00	0.652	
Ethylbenzene*	<0.050	0.050	08/06/2019	ND	1.94	96.8	2.00	0.429	
Total Xylenes*	<0.150	0.150	08/06/2019	ND	5.90	98.3	6.00	0.117	
Total BTEX	<0.300	0.300	08/06/2019	NÐ					
Surrogate: 4-Bromofluorobenzene (PIL	102 5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/07/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2019	ND	188	94.0	200	0.506	
DRO >C10-C28*	<10.0	10.0	08/05/2019	ND	189	94.7	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	08/05/2019	ND					
Surrogate: 1-Chlorooctane	96.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	89.0	% 37.6-14	7						

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

Received:	08/02/2019	Sampling Date:	08/02/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	STATE C TRACT 12 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP - 2 SURFACE 32.482468 (H902661-04)

	(g		d By: ms					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	08/06/2019	ND	1.98	98.9	2.00	0.851	
<0.050	0.050	08/06/2019	ND	2.05	102	2.00	0.652	
<0.050	0.050	08/06/2019	ND	1.94	96.8	2.00	0.429	
<0.150	0.150	08/06/2019	ND	5.90	98.3	6.00	0.117	
<0.300	0.300	08/06/2019	ND					
102 %	6 73.3-12	9						
mg/l	kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
16.0	16.0	08/07/2019	ND	416	104	400	3.92	
mg/l	kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	08/05/2019	ND	188	94.0	200	0.506	
<10.0	10.0	08/05/2019	ND	189	94.7	200	1.05	
<10.0	10.0	08/05/2019	ND					
94.49	6 41-142							
87.5 %	6 37.6-14	7						
	<0.050 <0.050 <0.150 <0.150 <0.300 //02 % mg/l Result 16.0 mg/l Result <10.0 <10.0 <10.0	 <0.050 <0.050 <0.050 <0.050 <0.050 <0.050 <0.150 <0.150 <0.300 0.300 <i>IO2 % 73.3-12:</i> mg/kg Result Reporting Limit 16.0 mg/kg Result Reporting Limit 10.0 10.0 <i>Q.1.0.0</i> <i>Q.1.4 %</i> 	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

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Received:	08/02/2019	Sampling Date:	08/02/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	STATE C TRACT 12 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP - 2 @ 1' - 103.172615 (H902661-05)

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	08/06/2019	ND	1.98	98.9	2.00	0.851	
Toluene*	<0.050	0.050	08/06/2019	ND	2.05	102	2.00	0.652	
Ethylbenzene*	<0.050	0.050	08/06/2019	ND	1.94	96.8	2.00	0.429	
Total Xylenes*	<0.150	0.150	08/06/2019	ND	5.90	98.3	6.00	0.117	
Total BTEX	<0.300	0.300	08/06/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC				-	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/07/2019	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS		_			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2019	ND	188	94.0	200	0.506	
DRO >C10-C28*	<10.0	10.0	08/05/2019	ND	189	94.7	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	08/05/2019	ND					
Surrogate: 1-Chlorooctane	87.7	% 41-142	2						
Surrogate: I-Chlorooctadecane	80.8	% 37.6-14	7						

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08/02/2019	Sampling Date:	08/02/2019
08/08/2019	Sampling Type:	Soil
STATE C TRACT 12 BATTERY	Sampling Condition:	Cool & Intact
NONE GIVEN	Sample Received By:	Tamara Oldaker
NOT GIVEN		
	08/08/2019 STATE C TRACT 12 BATTERY NONE GIVEN	08/08/2019Sampling Type:STATE C TRACT 12 BATTERYSampling Condition:NONE GIVENSample Received By:

Sample ID: SP - 2 @ 2' (H902661-06)

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	08/06/2019	ND	1.98	98.9	2.00	0.851	
Toluene*	<0.050	0.050	08/06/2019	ND	2.05	102	2.00	0.652	
Ethylbenzene*	<0.050	0.050	08/06/2019	ND	1.94	96.8	2.00	0.429	
Total Xylenes*	<0.150	0.150	08/06/2019	ND	5.90	98.3	6.00	0.117	
Total BTEX	<0.300	0.300	08/06/2019	ND					
Surrogate 4-Bromofluorobenzene (PIL	102	% 73.3-12	9					-	
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC	-				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/07/2019	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2019	ND	188	94.0	200	0.506	
DRO >C10-C28*	<10.0	10.0	08/05/2019	ND	189	94.7	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	08/05/2019	ND					
Surrogate: 1-Chlorooctane	98.2	% 41-142	2						
Surrogate: 1-Chlorooctadecane	90.6	% 37.6-14	7						

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

Received:	08/02/2019	Sampling Date:	08/02/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	STATE C TRACT 12 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP - 3 SURFACE 32.441273 (H902661-07)

BTEX 8021B	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2019	ND	1.98	98.9	2.00	0.851	
Toluene*	<0.050	0.050	08/06/2019	ND	2.05	102	2.00	0.652	
Ethylbenzene*	<0.050	0.050	08/06/2019	ND	1.94	96.8	2.00	0.429	
Total Xylenes*	<0.150	0.150	08/06/2019	ND	5.90	98.3	6.00	0.117	
Total BTEX	<0.300	0.300	08/06/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	101 5	% 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	48.0	16.0	08/07/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2019	ND	188	94.0	200	0.506	
DRO >C10-C28*	<10.0	10.0	08/05/2019	ND	189	94.7	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	08/05/2019	ND					
Surrogate: I-Chlorooctane	96.2	% 41-142	2						
Surrogate: 1-Chlorooctadecane	89.1	% 37-6-14	7						

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

08/02/2019	Sampling Date:	08/02/2019
08/08/2019	Sampling Type:	Soil
STATE C TRACT 12 BATTERY	Sampling Condition:	Cool & Intact
NONE GIVEN	Sample Received By:	Tamara Oldaker
NOT CIVEN		
	08/08/2019 STATE C TRACT 12 BATTERY	08/08/2019Sampling Type:STATE C TRACT 12 BATTERYSampling Condition:NONE GIVENSample Received By:

Sample ID: SP - 3 @ 1' - 103.175903 (H902661-08)

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	08/06/2019	ND	1.98	98. 9	2.00	0.851	
Toluene*	<0.050	0.050	08/06/2019	ND	2.05	102	2.00	0.652	
Ethylbenzene*	<0.050	0.050	08/06/2019	ND	1.94	96.8	2.00	0.429	
Total Xylenes*	<0.150	0.150	08/06/2019	ND	5.90	98.3	6.00	0.117	
Total BTEX	<0.300	0.300	08/06/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	101 9	% 73.3-12	9						
Chloride, SM4500Ci-B	mg/	/kg	Analyze	d By: AC			_		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/07/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2019	NÐ	188	94.0	200	0.506	
DRO >C10-C28*	<10.0	10.0	08/05/2019	ND	189	94.7	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	08/05/2019	ND					
Surrogate: I-Chlorooctane	92.7	% 41-142	2						
Surrogate: 1-Chlorooctadecane	83.8	% 37.6-14	7						

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

Received:	08/02/2019	Sampling Date:	08/02/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	STATE C TRACT 12 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP - 3 @ 2' (H902661-09)

BTEX 80218	mg/l	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2019	ND	1.98	98.9	2.00	0.851	
Toluene*	<0. <mark>050</mark>	0.050	08/06/2019	ND	2.05	102	2.00	0.652	
Ethylbenzene*	<0.050	0.050	08/06/2019	ND	1.94	96.8	2.00	0.429	
Total Xylenes*	<0.150	0.150	08/06/2019	ND	5.90	98.3	6.00	0.117	
Total BTEX	<0.300	0.300	08/06/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.8 9	6 73.3-12	9						
Chioride, 5M4500Ci-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/07/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2019	ND	188	94.0	200	0.506	
DRO >C10-C28*	<10.0	10.0	08/05/2019	ND	189	<mark>94.</mark> 7	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	08/05/2019	ND					
Surrogate: 1-Chlorooctane	97.3 9	6 41-142							
Surrogate: 1-Chlorooctadecane	92.0 9	6 37.6-14	7						

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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476 Company Name: Apache Corporation Project Manager: Bruce Baker BILL TO ANALYSIS REQUEST P.O. #: Address: Company: City: State: Zip: Attn: Phone #: Fax #: Address: Project #: Project Owner: City: Project Name: State, CTract 12 Battery Project Location: State C Tract 12 Battery Sampler Name: David Rabler State: Zip: È Phone #: Fax #: POR LAB USE DHEY MATRIX PRESERV. SAMPLING (G)RAB OR (C)OMP GROUNOWATER WASTEWATER SON OIL SULDGE OTHER: ACLORASE: ACLORASE: ACLORASE: ACLORASE: ACLORASE: ACLORASE: **J CONTANERS** Hat Lab I.D. Sample I.D. 1 Brey EAT. 201 H9021del DATE TIME V 1 SP-1 Surface 32.439 341 8-2-19 V V \checkmark Z SP-1@1 -103-179321 7 358-102 7 \checkmark + 4 50-2 Surrec 32-482-468 5 50-2 @ 1 -103-172615 \checkmark V V マ 7 6 51-3 50 105 105 105 10 7 51-3 50 10 10 273 8 51-3 29 - 103 175 903 7 7 ~ Z V 7 17 Y 1 957.302 8-2-19 v i. shall be by

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Relinquished By:	Date: \$ 2-14	Received By:	Phone Result:	O Yes	C No	Add1 Phone #:
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	Time:	-				
	FILENE:					
Delivered By: (Circle One) /.3		107 Sample Condition CHECKED	IY:			
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Sampler - UPS - Bus - Other:	rected	A 7 HALFTER YS				
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