

Page 1 of 30

DAVID FEATHER ENVIRONMENTAL SUPERVISOR DIRECT: (432) 818-1615 E-MAIL: DAVID.FEATHER & APACHECORP.COM

October 1, 2019

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

RE: 2RP-1134 NB Tween # 16

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 March 12, 2012. 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 28, 2019

Received by OCD: 10/1/2019 4:55:59 PM Received by OCD: 10/1/2019 4:57:25 PM

APACHE CORPORATION - PERMIAN BASIN REGION - 303 VETERANS AIRPARK LANE, STE 3000, MIDEAND, TEXAS 79705

Trinity Oilfield Services & Rentals, LLC



Company: Apache CorporationAddress: 2530 W. Marland St., Hobbs, NM 88240Telephone #: (575) 393-7106
Site Name: NB Tween #16 NMOCD Reference#: 2RP-1134
Surface Owner: Concho Resources Mineral Owner: State of New Mexico
Unit Letter: H (SE/NE)_Section: 25_Township: 17S Range: 28E_County:EddyGPS Coordinates: 32.809462_N104.124638_W
Date/Time of Release: 3/12/2012 Type of Release: Crude Oil Produced Water
Volume(s) Released: 10 bbls Volume(s) Recovered: 0 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 2,500 10,000
Background Information:
On March 12, 2012, Apache Corporation (Apache) discovered a release at the NB Tween #16 well site. Failure of a blowout preventer (BOP) valve resulted in the release of approximately 10 barrels (bbls) of crude oil. The release was limited to the caliche pad around the wellhead and did not affect the adjacent pasture. The seals on the BOP were replaced during initial response activities.
The release was reported to the New Mexico Oil Conservation Division's (NMOCD) Hobbs District Office on March 21, 2012. The NMOCD "Release Notification & Corrective Action" form (C-141) is provided as Appendix A. A "Site Location Map" is provided as Figure 1.
Remediation of the affected area took place at some point following the release. 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.
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 5, 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 around the wellhead to investigate the extent of impacted soil. The boreholes were advanced to the extent practicable to the hard rock layer running underneath the site, which was encountered approximately 1.5 feet below ground surface (bgs). Soil samples were collected at ground surface and 1 foot bgs from each location, 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, with the exception of sample SP-2 @ 1', which exhibited a TPH concentration of 485 mg/kg. Chloride concentrations ranged from 80.0 mg/kg in soil sample SP-3 @ Surface to 1,040 mg/kg in sample SP-1 @ Surface.

Locations of the auger holes are depicted in Figure 2, "Sample Location Map". 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:

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Received by OCD: 10/1/2019 4:57:25 PM

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 1 of Section 19.15.29.12 of the New Mexico Administrative Code (NMAC) for a site where depth to groundwater is greater than 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 2012 were effective in remediating the release. Trinity, on behalf of Apache, hereby requests the NMOCD grant closure to the NB Tween #16 release site.

Enclosures:

Figure 1: Site Location Map Figure 2: Sample Location Map 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

8/28/2019 Ben J. Arguijo Project Manager

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Figures





Tables

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TABL	.E 1			
CONCENTRATIONS OF BENZENE,	BTEX,	TPH &	CHLORIDE	IN SOIL

APACHE CORPORATION NB TWEEN #16 EDDY COUNTY, NEW MEXICO NMOCD REFERENCE #: 2RP-1134

					EPA SI	N-846 Method	80210			EPA SW	-846 Metho	od 8015M		4500-CI B
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	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)	TPH C6-C35 (mg/kg)	CHLORIDE (mg/kg)
NMO	CD Closure L	imits (mg/kg)		10	NĘ	NE	NE	50	NE	NE	1,000	NĘ	2,500	20,000
SP-1 @ Surface	Surface	8/5/2019	In-Silu	<0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1.040
SP-1 @ 1'	1'	8/5/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	752
SP-2 @ Surface	Surface	8/5/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SP-2 @ 1'	1'	8/5/2019	In-Silu	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	337	337	148	485	400
SP-3 @ Surface	Surface	8/5/2019	In-Silu	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SP-3 @ 1'	1'	8/5/2019	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160

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

Page 1 of 1

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Appendices

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

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

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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 August 8, 2011 Submit 1 Copy to appropriate District Office in accordance with 19,15,29 NMAC.

1220 S St Fran	icis Dr., Santa	1 he, NM 87505		Sa	inta Fe	, NM 875	05					
			Rele	ease Notific	ation	and Co	orrective A	ction	1		_	
MMLB 1215	D.SD616	,				OPERA	FOR		🛛 In	itial Report		Final Report
Name of Co	mpany Aj	pache Corpo		873		Contact Natalie Gladden						
		Eunice, NM	1 88231				No. 575-390-41					
Facility Nat	Facility Name NB Tween #16						e Production v	vell				
Surface Ow	Surface Owner Concho Resources Mineral Owner								API1	No. 30-015-	38406	
				LOCA		N OF RE	LEASÉ					
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/\	West Line	County		
н	25	175	28E	1650'	FNL		990'	FEL		Eddy		
			La	titude		_Longitud	le					
				NAT	URE	OF REL	EASE					
Type of Rele						Volume of	Release 10		Volum	e Recovered	0	
Source of Re	lease BOP	Failure					lour of Occurrent	ce		nd Hour of Di	scovery	/
Was Immedi	ate Notice G	liven?				3/12/12 If YES, To	Whom?		03/12/1	2		
			Yes [No 🔲 Not R	equired	Bratcher						
By Whom?							lour 3/21/02 824a					
Was a Water	course Reac		Yes 🗵	No		If YES, Vo	olume Impacting	the Wat	ercourse.			
If a Waterco	urse was Im	pacted, Descri	ibe Fully. ⁴	,		<u> </u>			RFC	EIVE)+	
	aree was mit	pacted, Descri	loe runy.					- I '			ļ	
									APR	3'0 2012		
			-							D-ARTES		
		em and Remed										
Workover rig	g on well shu	ut in BOP val	ives the ev	ening before but	it did no	t scal correct	ly. Seals were re	placed a	nd fluid	was recovered		
Describe Are		and Cleanup A	Action Tuk									
				ines will be follow	wed to el	losure of this	release.					
												72
				is true and comp								
regulations a	Il operators a or the envir	are required to connent. The	o report ar acceptant	id/or file certain r c of a C-141 repo	clease no	otifications and NMOCD m	nd perform correct arked as "Final P	ctive act	ions for r	eleases which	may e	ndanger f liability
should their o	operations ha	ave failed to a	dequately	investigate and r	cmediate	e contaminati	on that pose a thr	reat to gi	round wa	ter, surface w	ater, hu	man health
or the environ	nment. In ac	ddition, NMO vs and/or regu	CD accep	tance of a C-141	report de	bes not reliev	e the operator of	respons	ibility fo	compliance v	with an	y other
Teueras, state,		vs and/or regu					OIL CON	SFRV			<u></u>	
	h	tou	1	Onda	/	OIL CONSERVATION DIVISION						
Signature:	$-\mu$	um	(7	VINA	Y	Approved by Environmental Specialist:						Md
Printed Name	: Natalic G	iladden			⁴	Approved by	Environmental 5	pecialis				61
Title: EHS E	nvironment	al Tech				Approval Du	AY 2 9 201	2	Expiratio	n Date:		8:15:19 PM
E-mail Addro	ss: natalic i	eladdco@ana	checom e	-		Conditions of	Approval					
- L'indit / loure		Francontexalver	enceorpres			a stat	on ner OCD R	ules &		Attached		120
Date: 3/26/12		10ne:575-390-				Remediau	JBMIT REMED	IATIO	N			
* Attach Addi	tional Shee	IS IT Necessa	агу		Gu		OT LATEK 100	AT		JP6)_ /	1716 📱
					ЧK	6	9/2012			ZPF	- /	57
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Form C-141 Page 3

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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?	175 (ft bgs)
Did this release impact groundwater or surface water?	Yes No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🔽 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	Yes No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Yes No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes 🗹 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🚺 No
Are the lateral extents of the release within 300 feet of a wetland?	Yes No
Are the lateral extents of the release overlying a subsurface mine?	Yes No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes VNo
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. V

Field data 2 Data table of soil contaminant concentration data

Depth to water determination

Z Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release

 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 the release. 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.

I hereby certify that the informa				Facility ID Application I	D	
regulations all operators are req public health or the environmen failed to adequately investigate addition, OCD acceptance of a c and/or regulations.	tion given above is true and complete to uired to report and/or file certain release : t. The acceptance of a C-141 report by th and remediate contamination that pose a C-141 report does not relieve the operator	notifications ar the OCD does n threat to groun of responsibil	nd perform co not relieve the ndwater, surfac lity for compli	rrective actions fo operator of liabili se water, human h	r releases wi ty should the ealth or the e er federal, si	hich may endanger sir operations have environment. In tate, or local laws
Signature: Bruce email: larry, bak	er @ apachecorp.com		9/30/19			
OCD Only Received by:	30		Date:	<u></u>		<u>,</u>

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Form C-141 Page 6

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State of New Mexico Oil Conservation Division

Incident ID	nMLB1215050616
District RP	
Facility ID	
Application ID	

Closure

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

A scaled site and sa	ampling diagram as described in 1	19.15.29.11 NMAC
Photographs of the must be notified 2 days	e remediated site prior to backfill s prior to liner inspection)	or photos of the liner integrity if applicable (Note: appropriate OCD District off
Laboratory analyse	es of final sampling (Note: approp	priate ODC District office must be notified 2 days prior to final sampling)
Description of rem	ediation activities	
may endanger public hea should their operations h human health or the envi compliance with any oth restore, reclaim, and re-v accordance with 19.15.29	alth or the environment. The acce lave failed to adequately investiga ironment. In addition, OCD accept er federal, state, or local laws and vegetate the impacted surface area 9.13 NMAC including notification	nd complete to the best of my knowledge and understand that pursuant to OCD ru file certain release notifications and perform corrective actions for releases which eptance of a C-141 report by the OCD does not relieve the operator of liability ate and remediate contamination that pose a threat to groundwater, surface water, ptance of a C-141 report does not relieve the operator of responsibility for d/or regulations. The responsible party acknowledges they must substantially to the conditions that existed prior to the release or their final land use in n to the OCD when reclamation and re-vegetation are complete. Title: <u>Environmental Tech.5k</u> Date: <u>9/30/19</u> Telephone: <u>432-631-6982</u>
Signature: Touce	izaner	Date: 7/30/19
email: <u>larry</u> , ba	Ker Gapachecorp.com	m Telephone: 432-631-6982
OCD Only		
OCD Only Received by:		
Received by: Closure approval by the C	OCD does not relieve the responsi	Date:
Received by: Closure approval by the C remediate contamination party of compliance with	OCD does not relieve the responsi that poses a threat to groundwater.	Date:
Received by: Closure approval by the C remediate contamination	DCD does not relieve the responsi that poses a threat to groundwater any other federal, state, or local l	Date:
Received by: Closure approval by the O remediate contamination party of compliance with Closure Approved by:	OCD does not relieve the responsi that poses a threat to groundwater, any other federal, state, or local t Bradford Bit	Date:
Received by: Closure approval by the O remediate contamination party of compliance with Closure Approved by:	OCD does not relieve the responsi that poses a threat to groundwater, any other federal, state, or local t Bradford Bit	Date:
Received by: Closure approval by the O remediate contamination party of compliance with Closure Approved by:	OCD does not relieve the responsi that poses a threat to groundwater, any other federal, state, or local t Bradford Bit	Date:

Appendix B Closure Criteria Justification

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TABLE 3 CLOSURE CRITERIA JUSTIFICATION

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Received by OCD: 10/1/2019 4:57:25 PM

APACHE CORPORATION NB TWEEN #16 EDDY COUNTY, NEW MEXICO NMOCD REFERENCE #: 2RP-1134



Groundwater, Water Wells & Other Water Sources	
Depth to groundwater (ft)?	175
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	ТРН	Chloride			
10	50	1,000	2,500	20,000			

*Numerical limits or natural background level, whichever is greater



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

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 581949.3

Northing (Y) 3630503.42

Radius: 1610 (1 mile)

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.

8/23/19 2:04 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Appendix C Laboratory Analytical Reports

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August 08, 2019

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

RE: NB TWEEN

Enclosed are the results of analyses for samples received by the laboratory on 08/05/19 15:15.

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.tceg.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

mhe Sugh

Mike Snyder For Celey D. Keene Lab Director/Quality Manager

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Released



Analytical Results For:

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

Received:	08/05/2019	Sampling Date:	08/05/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	NB TWEEN	Sampling Condition:	Cool & Intact
Project Number:	NB TWEEN STATE #16	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: SP - 1 SURFACE (H902677-01)

BTEX 8021B mg/kg Analyzed By: ms Analyte Result **Reporting Limit** Analyzed Method Blank BS True Value QC RPD Qualifier % Recovery Benzene* < 0.050 0.050 08/07/2019 ND 1.97 98.7 2.00 2.19 Toluene* < 0.050 0.050 08/07/2019 ND 2.01 100 2.00 1.19 Ethylbenzene* < 0.050 0.050 08/07/2019 ND 1.87 93.7 2.00 0.598 Total Xylenes* <0.150 0.150 08/07/2019 ND 5.66 94.4 6.00 0.195 Total BTEX < 0.300 0.300 08/07/2019 ND Surrogate: 4-Bromofluorobenzene (PIE 97.9% 73_3-129 Chloride, SM4500CI-B mg/kg Analyzed By: AC Analyte Result **Reporting Limit** Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chioride 1040 08/08/2019 ND 432 16.0 108 400 0.00 **TPH 8015M** Analyzed By: MS mg/kg Analyte Result **Reporting Limit** Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier GRO C6-C10* ND <10.0 10.0 08/06/2019 213 107 200 0.553 DRO >C10-C28* <10.0 10.0 08/06/2019 ND 208 104 200 0.767 EXT DRO >C28-C36 08/06/2019 ND <10.0 10.0 Surrogate: 1-Chlorooctane 67.9% 41-142 Surrogate: 1-Chlorooctadecane 69.4% 37.6-147

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Cardinal Laboratories

PLEASE NOTE: Liability and Damages. Cardinal's liability and All claims, including the \$74.47 nt paid by chent for analy In no event warved unless 6, lose of use, days or loss of profits incurred by client, including, without limitation, business inter-AS INDER affliates or successors ansing out of or related to the perfornce of the services hereunder by Cardinal, regardle ed upon any of the above stated ma Imaging: 7/1/202.

march Smale

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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Released to

*=Accredited Analyte



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Analytical Results For:

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

Received:	08/05/2019	Sampling Date:	08/05/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	NB TWEEN	Sampling Condition:	Cool & Intact
Project Number:	NB TWEEN STATE #16	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		
-			

Sample ID: SP - 1 @ 1 (H902677-02)

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	08/07/2019	ND	1.97	98.7	2.00	2.19	
Toluene*	<0.050	0.050	08/07/2019	ND	2.01	100	2.00	1.19	
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.87	93.7	2.00	0.598	
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.66	94.4	6.00	0.195	
Total BTEX	<0.300	0.300	08/07/2019	ND					
Surrogate 4-Bromofluorobenzene (PIE	99.8	% 73 3-12	9	havar ann dhiaran shirle and door a dha	8r	ar - Arian Antonia and Arian a			
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	08/08/2019	ND	432	108	400	0.00	
TPH 8015M	mig,	'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	08/06/2019	ND	213	107	200	0.553	

208

ND

ND

104

200

0.767

08/06/2019

08/06/2019



<10.0

<10.0

10.0

10.0

Cardinal Laboratories

DRO >C10-C28*

EXT DRO >C28-C36

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Analytical Results For:

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

Received:	08/05/2019	Sampling Date:	08/05/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	NB TWEEN	Sampling Condition:	Cool & Intact
Project Number:	NB TWEEN STATE #16	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: SP - 2 SURFACE (H902677-03)

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 08/07/2019 ND 1.97 98.7 2.00 2.19 08/07/2019 Toluene* < 0.050 0.050 ND 2.01 100 2.00 1.19 Ethylbenzene* <0.050 0.050 08/07/2019 ND 1.87 93.7 2.00 0.598 Total Xylenes* <0.150 0.150 08/07/2019 ND 5.66 94.4 6.00 0.195 Total BTEX 0.300 08/07/2019 < 0.300 ND

73.3-129

98.9 % Surrogate: 4-Bromofluorobenzene (PIE

Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/08/2019	ND	432	108	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	08/06/2019	ND	213	107	200	0.553	
DRO >C10-C28*	<10.0	10.0	08/06/2019	ND	208	104	200	0.767	
EXT DRO >C28-C36	<10.0	10.0	08/06/2019	ND					
Surrogate 1-Chlorooctane	64.4	% 41-14:	?						
Surrogate: 1-Chlorooctadecane	62.6	% 37.6-14	17						

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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:	08/05/2019	Sampling Date:	08/05/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	NB TWEEN	Sampling Condition:	Cool & Intact
Project Number:	NB TWEEN STATE #16	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: SP - 2 @ 1 (H902677-04)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*		<0.050	0.050	08/07/2019	ND	1.97	98.7	2.00	2.19	
Toluene*		<0.050	0.050	08/07/2019	ND	2.01	100	2.00	1.19	
Ethylbenzene*		<0.050	0,050	08/07/2019	ND	1.87	93.7	2.00	0.598	
Total Xylenes*		<0.150	0.150	08/07/2019	ND	5.66	94.4	6.00	0.195	
Total BTEX		<0.300	0.300	08/07/2019	ND					

100% Surrogate: 4-Bromofluorobenzene (PIE 73.3-129 Chile 14. Children 0

Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC			0		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	08/08/2019	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS			<u>_</u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2019	ND	213	107	200	0.553	
DRO >C10-C28*	337	10.0	08/06/2019	ND	208	104	200	0.767	
EXT DRO >C28-C36	148	10.0	08/06/2019	ND					
Surrogate: 1-Chlorooctane	70.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	81.6	% 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:	08/05/2019	Sampling Date:	08/05/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	NB TWEEN	Sampling Condition:	Cool & Intact
Project Number:	NB TWEEN STATE #16	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: SP - 3 SURFACE (H902677-05)

BTEX 80218	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	08/07/2019	ND	1.97	98.7	2.00	2.19	
Toluene*	<0.050	0.050	08/07/2019	ND	2.01	100	2.00	1.19	
Ethylbenzene*	<0.050	0.050	08/07/2019	ND	1.87	93.7	2.00	0.598	
Total Xylenes*	<0.150	0.150	08/07/2019	ND	5.66	94.4	6.00	0.195	
Total BTEX	<0.300	0.300	08/07/2019	ND					
Surrogate 4-Bromofluorobenzene (PIE	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	80.0	16.0	08/08/2019	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS		10104710			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	08/06/2019	ND	215	108	200	1.84	
DRO >C10-C28*	<10.0	10.0	08/06/2019	ND	230	115	200	6.71	
EXT DRO >C28-C36	<10.0	10.0	08/06/2019	ND					
Surrogate: 1-Chlorooctane	81.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	87.6	% 37.6-14	7						

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Analytical Results For:

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

Received:	08/05/2019	Sampling Date:	08/05/2019
Reported:	08/08/2019	Sampling Type:	Soil
Project Name:	NB TWEEN	Sampling Condition:	Cool & Intact
Project Number:	NB TWEEN STATE #16	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY		

Sample ID: SP - 3 @ 1 (H902677-06)

BTEX 8021B mg/kg Analyzed By: ms Analyte Result **Reporting Limit** Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier 08/07/2019 1.97 2.00 Benzene* < 0.050 0.050 ND 98.7 2.19 Toluene* <0.050 0.050 08/07/2019 ND 2.01 2.00 100 1.19 Ethylbenzene* <0.050 0.050 08/07/2019 ND 1.87 93.7 2.00 0.598 Total Xylenes* <0.150 0.150 08/07/2019 ND 5.66 6.00 0.195 94.4 Total BTEX < 0.300 0.300 08/07/2019 ND

Surrogate 4-Bromofluorobenzene (PIE 99.5% 73.3-129

Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC				5	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/08/2019	ND	432	108	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	08/06/2019	ND	215	108	200	1.84	
DRO >C10-C28*	<10.0	10.0	08/06/2019	ND	230	115	200	6.71	
EXT DRO >C28-C36	<10.0	10.0	08/06/2019	ND					
Surrogate: 1-Chlorooctane	82.7	% 41-142	?						
Surrogate I-Chlorooctadecane	90.6	% 37.6-14	7						

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature
	Chloride by 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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

Company Name: APACHE. Cor Postion							BILL TO						ANAL	ANALYSIS REQUEST							
Project Manager: Brike Baker							P.O. #:										T	ΤT			
Address:						Company:					1										
City:	City: State: Zip:						Attn:					1									
Phone #: Fax #:						Address:						s 1						1			
Project #: Project Owner:						-	City:														
Project Name: NB TWEEN State #16							State: Zip:														
Project Location: NBTWEET State #16					_	Phone #:						1 3					1				
Sampler Name:	Daniel Ruster							Fax #:						- 8							
POR LAB USE DHLY					M	ATRI	X	_	PRESE	RV.	SAMPLI	NG									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER :	ACID/BASE:	OTHER	DATE	TIME	CL	EXE-TPH	BTEX						
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	57-2.0.1	_	4	-		-	1	-					44	-							_
	57-3 Surfue		H		-	4-	-	-		-	V			-							
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Reiniquished By:	Date: S-S-19 Time: Date: Time:	Received By: Received By:	lakge	Phone Result: Fax Result: REMARKS	C Yes	D No	Add'l Phone #: Add'l Fax #;	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	1.82 Corrected	HAP Sample Condition Cool Intact 2.5° Pres Tres No No	CHECKED BY: (Initials)					

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:
APACHE CORPORATION	873
303 Veterans Airpark Ln	Action Number:
Midland, TX 79705	1612
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS		
Created By	Condition	Condition Date
bbillings	Do not use old TREND map exclusively for DTW assessment in future	7/1/2021

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Action 1612