

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

RE: 2RP-2071, 2RP-2132, 2RP-2509 Tony Federal 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 July 26, 2012. Apache is respectfully submitting the closure report based on remediation and studies occurring in 2018 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 432-631-6982 or by e-mail at larry.baker @apachecorp.com.

Sincerely,

Larry Baker Environmental Technician SR. Apache Corporation

Attachment: Closure Report Dated September 9, 2020



# Closure Report

September 9, 2020

Re: Tony Federal Battery API# 30-015-30244 Case # 2RP-2071 2RP-2132 2RP-2509

# **Background:**

The Tony Federal Battery is located east of Loco Hills, New Mexico in unit letter K section 18 township 17S range 31E (GPS Coordinates: 32.8310056, -103.911913). The release is located in an area of no know ground water. On 10/09/2018 vertical delineation was conducted at SP 1 in one foot intervals to a depth of 8 feet utilizing a hand auger. All samples collected were submitted to a commercial laboratory for analysis of Cl-, TPH, and BTEX. On 10/11/2018 the vertical was advanced and samples were collected from 11 to 14 feet below ground surface. The sampling was stopped due to the hand auger had reached its maximum depth. All samples collected were submitted to a commercial laboratory for analysis of Cl-, TPH, and BTEX. After the vertical was complete the two release areas were sectioned off in 200 square feet areas and 5 point composite samples were collected from the areas totaling 8 composite samples. All composite samples were submitted to a commercial laboratory for analysis of Cl-, TPH, and BTEX. On 10/15/2018 a hand auger was utilized to collect 1 foot composite samples at composite points 6 and 8.

A remediation plan was submitted an approved by OCD. In accordance with the plan SP 1 was excavated to a depth of 2 feet. CP 6 and CP 8 were excavated to a depth of 1 foot. On 11/19/2018 final wall samples were collected at CP 6 and CP 8. All wall samples were submitted to a commercial laboratory for analysis of Cl-, TPH, and BTEX. On 11/26/2018 final wall samples were collected at SP 1 and are referred to on lab analysis as SP7. All samples collected were submitted to a commercial laboratory for analysis of Cl-, TPH, and BTEX. Laboratory analysis for CP 8 west wall were above table one standards for TPH. The wall was further excavated and on 12/4/2018 a final wall sample was collected and submitted to a commercial laboratory for analysis of Cl-, TPH, and BTEX. All excavated soil was hauled to an OCD approved disposal facility. The excavation was backfilled with caliche to ground surface and the entire facility was upgraded with the secondary containment lined.

Apache has completed remediation to below table one standards for releases greater than 100 feet to groundwater and respectfully request closure for events 2RP-2071, 2RP-2132, and 2RP-2509.

Enclosed: C-141, Maps, Sample Data, Laboratory Results, and Photos.

Submitted by;

Environmental Technician

larry.baker@apachecorp.com

Cell# 432-631-6982 Off# 432-818-1000

Bruce Baker

Received by OCD: 9/9/2020 1:40:25 PM

District 1 1625 N. French Dr., Hobbs, NM 88240 District 11 811 S. First St., Artesia, NM 88210 DISTRICT IN 1000 Rio Brazos Rond, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

# State of New Mexico Energy Minerals and Natural Resources

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Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

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INTO	1133	2356	226		OPERA'		🛛 Initia	l Report 🔲	Final Repor		
Name of Co	mpany A	pache Corpo	ration	<i>3</i> 73_	Contact Bri	uce Baker					
Address 8 I	Ellison La	ne Eunice, N	M 8823 I	41	Telephone 1	Telephone No. 432-631-6982					
Facility Nan	ne Tony I	ederal Batte	ry		Facility Typ	Facility Type Battery					
Surface Owner BLM Mineral O					Owner		API No.	30-015-30244			
LOCATION OF RELEASE											
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	Cour	nty		
K	18	178	31E	1385'	FSI.	1510'	FWL	Edd	ly		
							ı				

NATURE OF RELEASE

Longitude

Latitude

Type of Release Produced Water		Volume of Release 60 Barrels	Volume Recovered 55 Barrels		
Source of Release Water transfe	г ришр	Date and Hour of Occurrence Date and Hour of Discovery			
Was Linuicdiate Notice Given?		If YES, To Whom?			
	🛛 Yes 🗌 No 🗌 Nol Required	Mike Bratcher with NMOCD and	Jeffery Robertson with BLM		
By Whom? Bruce Baker		Date and Hour 11/14/13 at 3:00 p	D.m.		
Was a Watercourse Reached?		If YES, Volume Impacting the W	ntercourse.		
	Yes 🛛 No	1			
If a Watercourse was Impacted, I	Describe Fully.*	ē.	74		
Describe Cause of Problem and R 2" tee washed out and 1/2 inclining		The valve to transfer pump was clo	sed and connections were replaced with new.		
Describe Area Affected and Clean Approximately 1500 square feet r produce water.	nup Action Taken.* elease all contained inside the bermed fa	icility and lease pad. A vacuum truc	k was dispatched and recovered 55 barrols of		
regulations all operators are requi- public health or the environment, should their operations have failed	f to adequately investigate and remediate IMOCD acceptance of a C-141 report do	otifications and perform corrective as o NMOCD marked as "Final Report" c contamination that pose a threat to	tions for releases which may endanger does not relieve the operator of liability ground water, surface water, human health		
		OIL CONSER	VATION DIVISION		
Signature: Bruce Bud	las				
Signature: Butter Butter					
Printed Name: Bruce Baker	1'	Approved by Environmental Speciali	By Mily Drawler		
Title: Environmental Technician		NOV 1 9 2013	Expiration Date:		
E-mail Address: larry.baker@apa		Conditions of Approval:	Attached []		
Oate: 11/15/13		mediation per OCD Rule & Guide	elines, &		
Attach Additional Sheets If Nec	Phone: 432-631-6982 like	approval by BLM. SUBMIT REMI	EDIATION		
much additional outres it tack		PROPOSAL NO LATER THAN	2KP-2071		
	1	)			

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

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NM Sibmil 128 To appropriate District Office in accordance with 19.15.29 NMAC.

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

State of New Mexico

Energy Minerals and Natural Resources

(			Rel	ease Notific	atio	and Co	orrective A	ctio	מ			
MMLa	1460		<b>OPERA</b>			<b>⊠</b> Initi	al Report		Final Report			
Name of Co	отрацу А	pache Corpo	oration	813		Contact Br		(002				<del></del>
		ne Eunice, N Federal Batte				Facility Typ	No. (432) 631-0	0984				
		COOTAL BALL		Mineral O					A DI No	30-015-	20244	
Surface Ow	HEL PLIN								AFTING	), 30-013	30244	
Unit Letter	Section	Township	Range	LOCA		V OF RE	LEASE Feet from the	Fort/	West Line	County		
K	18	178	31E	1385'	FSL	SQUIII IMIC	1510'	FWL		Eddy		
L	Latitude Longitude Longitude											
	NATURE OF RELEASE											
Type of Rele	ase Oil and	Produced Wa	nler	1428 2	UND		Release 25 barro	cls	1	Recovered 2		
						( 20 barrels of oil)	s of water and 5 b	arrels	( 17 barro	is of water a	and 3 ba	irrels of oil )
Source of Re	lease Water	r Tank				Date and H	lour of Occurrence	e		Hour of Dis		
Was Immedia	te Notice C	liven')				12/15/2013 If YES, To	at 8:00 a.m.		12/15/201	3 at 8:00 a.	m.	
Tras minicon	iio tautico (		Ycs 🗌	No 🔲 Not Re	quired		her (NMOCD) at	nd Jeffe	ry Robertso	on (BLM)		
By Whom?							our 12/16/2013			·		
Was a Water	ourse Reac	*	Yes 🔯	l No		II YES, Vo	hune Impacting t	the Wate	ercourse.			
If a Watercon	rse was Imr					<u> </u>				- 17		
		,										
Describe Cau	ca of Broble	us and Dames	lial Action	Tokon •								
Transfer pum	p went dow			g causing the water	er tank t	o overflow.	Pump was repaire	ed and v	acuum truc	k was dispa	iched to	collect
fluid from rel	ense area.											
Describe Arca	Affected a	nd Cleanup A	ction Tak	cn.*						<del></del>		
				faren. A vacuum	truck w	as dispatched	and recovered 20	0 barrel	s of total flu	ıid.		
												757
I haveber mestif	i that the in	formation of	en aboue	is true and comple	to to the	a heat of and	manuladaa and u		el that mean	uant to NIM	VCD =	las sul
regulations all	operators a	re required to	report and	d/or file certain rel	lcase no	tifications an	d perform c <i>orrec</i> i	tive acti	ons for rele	ases which	may end	danger
				of a C-141 report investigate and rea								
or the environ	ment. In ad	dition, NMO	CD accept	ance of a C-141 re								
federal, state,	or local laws	s and/or regul	ations.				OIL COMS	VQQS	ATION	OISIVIO	NJ	
<b>6</b> 2. 14	2	Buker			İ	OIL CONSERVATION DIVISION					į	
Signature:	/ ruce	mace		<del></del>	^	nucoved by E	Environmental Sp	mointiet		11/1	1	
Printed Name:	Bruce Bak	cr		<del></del>	^_		луновиска ор	Şiç	ned By	11/14	K) KAA	ruesi-
Title: Environ	mental Tecl	h <u>nician</u>			^^	pproval Date	N 0 2 2014		Expiration E	Date:	94	
E-mail Addres	s: larry.bak	er@apacheco	rp.com	·	c	onditions of	Approval:			Altochod	_	1
Date: 12/20/20	113		Phone	: (432) 631-6982		Remediation per OCD Rule & Guidelines, &						
Attach Addition		s If Necessar		- (432) 113 (4030Z	like		y BLM: SUBMIT		DIATION-	4D C	210	
			-		Ī	- PROPO	SAL NO LATER	THAN:		2RP-	413	54
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District 1
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District IY
1220 S. St. Francis Dr., Santa Fo, NM 87505

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# **NM OIL CONSERVATION**

ARTESIA DISTRICT

SEP 2 2 2014

Form C-141 Revised August 8, 2011

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit REGERY EDopriate District Office in accordance with 19.15.29 NMAC.

_			Rele	ease Notifi	catio	n and Co	orrective A	ction	n			
nAB1426629023						OPERA'	TOR		<b>⊠</b> Initi	al Report		Final Repor
Name of Company Apache Corporation 373						Contact Br						
Address 2350 W Marland Blvd Hobbs NM 88240 Facility Name Tony Federal Battery							No. (432) 631-6	982		<del></del>		
Facility Na	me Tony	rederal Batte	егу			Facility Typ	e Ballery					
Surface Ow	mer BLM			Mineral (	Owner				API No	s. 30-015-3	0244	
				LOC	ATIO	N OF REI	LEASE					
Unit Letter K	Section 18	Township 17S	Range 31E	Feet from the 1385'	North FSL	Vorth/South Line   Feet from the   East/West Line   County						
Latitude Longitude												
				NAT	<b>TURE</b>	OF RELI	EASE					
Type of Rele	ase Oil and	Produced W	nter				Release 150 ba			Recovered 1	40 barr	els of water
Source of Re	lease Wate	r and Oil Tan	k	· · · <u>-</u>			d 40 barrels of oil			ncis of oil Hour of Dis	COVETY	
						9/19/2014	at 4:00 a.m.			l at 4:00 a.m		
Was Immedia	ate Notice (		Yes 🗌	No 🗌 Not R	equired	If YES, To Mike Brate	Whom? her (NMOCD) an	d Jim A	Ainos (BLM	5)		
By Whom?							our 9/19/2014 at					
Was a Water	ourse Reac		Yes 🛚	No		If YES, Vo	lume Impacting ti	he Wate	ercourse.			
If a Watercou	rse was Im	nacted, Descri	be Fully.*			0.00						
Describe Caus A short in the to overflow.	electrical p	and caused a			The power	er outage caus	ed all the transfer	pumps	and Lact u	nit to fail res	ulting i	in the tanks
Describe Area The release are	Affected a ca was cont	nd Cleanup A mined inside t	ction Take he bermed	en.* area and lease p	ad. A v	acuum truck w	/as dispatched to p	pick-up	standing fl	uiđ.		
regulations all public health o should their or	operators a or the environations ha ment. In ad	re required to onment. The a eve failed to ac Idition, NMO	report and acceptance lequately i CD accepta	Vor file certain re of a C-141 repo investigate and re	tease no rt by the mediate	otifications and NMOCD man contamination	mowledge and und d perform correcti rked as "Final Re n that pose a thre: the operator of re	ive actio port" do at to gre	ons for releases not relieused to the contract of the contract	ases which never the opera- surface water	nay end dor of li er, hum	Janger liability nan health
			219				OIL CONS	ERV	ATION	DIVISIO	<u>v</u>	
Signature:	Bruce	Balu	1		}		A: 1=	4	[]. k			
Printed Name:	Bruce Bak	er	-		1	Approved by E	Signed By nvironmental Spo	cialist:	(19 K)	CASTON CAR	<del>-</del>	
Title: Environ	mental Tec	hnician			A	pproval Date:	9/23/14	E	xpiration D	ato:		
E-mail Addres	s: larry.bak	er@apacheco	rp.com			Conditions of A	• •			Attached	 []	
Date: 9/22/201	14	- P	hone: (43				D.C.D. Rules					
Attach Addition					<del>UBMH</del> ATFR	F <del>remedi/</del> Than: //	NTION PROP	OSAL	NO '	9	20.	1500

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Page 3
Oil Conservation Division

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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?	none (ft bgs)							
Did this release impact groundwater or surface water?	☐ Yes ☑ No							
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No							
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☑ No							
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No							
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No							
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No							
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No							
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No							
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No							
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☑ No							
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No							
Did the release impact areas <b>not</b> 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.								
<ul> <li>✓ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data</li> <li>✓ Data table of soil contaminant concentration data</li> <li>✓ Depth to water determination</li> <li>✓ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li> <li>✓ Boring or excavation logs</li> <li>✓ Photographs including date and GIS information</li> <li>✓ Topographic/Aerial maps</li> <li>✓ Laboratory data including chain of custody</li> </ul>	ls.							
——————————————————————————————————————								

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.

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	Page 8 of 74
Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.							
Printed Name: Larry Baker	Title: Environmental Tech SR.						
Signature: Larry Baker	Date: 9/9/2020						
email: larry.baker@apachecorp.com	Telephone: 432-631-6982						
OCD Only							
Received by:	Date:						

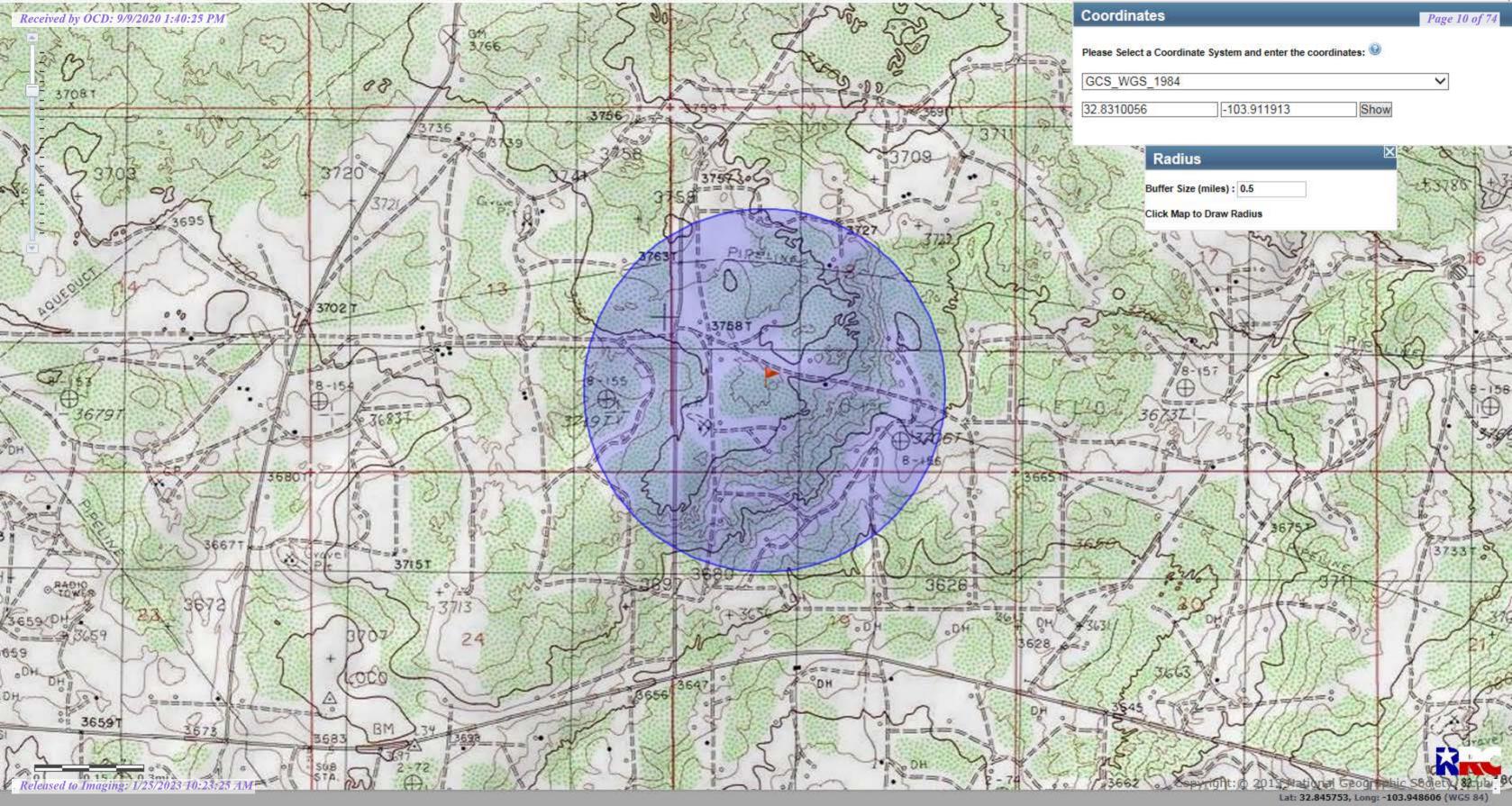
exico Page 9 of 74

Incident ID	
District RP	
Facility ID	
Application ID	

# Closure

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

Closure Report Attachment Checklist: Each of the following is	tems 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 must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office							
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)							
Description of remediation activities								
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rephuman health or the environment. In addition, OCD acceptance of	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in							
Printed Name: Larry Baker	Title: Environmental Tech SR.							
Signature: Larry Baker	Date: 9/9/2020							
email: <u>larry.baker@apachecorp.com</u>	Telephone: 432-631-6982							
OCD Only								
Received by: OCD	Date:9/20/2020							
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.							
Closure Approved by:Ashley Maxwell	Date:1/25/2023							
Closure Approved by:Ashlay Maxwell Printed Name: Ashley Maxwell	Title:Environmental Specialist							





Tony Federal Battery

SP 1	Depth	Lab CL	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO
	0-6"	352	<0.050	<0.050	<0.050	<0.150	<0.300	<50	3850	1030
	1'	3720	<0.050	<0.050	<0.050	0.195	<0.300	<50	3150	613
	2'	624	<0.050	<0.050	<0.050	<0.150	<0.300	<10	48.4	12.2
	3'	1260	<0.050	<0.050	<0.050	<0.150	<0.300	<10	184	37.2
	4'	816	<0.050	<0.050	<0.050	<0.150	<0.300	<10	79.3	<10
	5'	816	<0.050	<0.050	<0.050	<0.150	<0.300	<10	147	32.2
	6'	1170	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10
	7'	1140	<0.050	<0.050	<0.050	<0.150	<0.300	<10	22.8	<10
	8'	1150	<0.050	<0.050	<0.050	<0.150	<0.300	<10	1920	474
	11'	1180	<0.050	<0.050	<0.050	<0.150	<0.300	<10	386	120
	12'	896	<0.050	<0.050	<0.050	<0.150	<0.300	<10	269	68.3
	13'	864	<0.050	<0.050	<0.050	<0.150	<0.300	<10	366	95
	14'	736	<0.050	<0.050	<0.050	<0.150	<0.300	<10	90.4	14.7
					Composite Sam	ples				
CP 1	0-6"	672	<0.050	<0.050	<0.050	<0.150	<0.300	<10	83.4	22.1
CP 2	0-6"	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10	850	195
CP 3	0-6"	176	<0.050	<0.050	<0.050	<0.150	<0.300	<10	233	76
CP 4	0-6"	128	<0.050	<0.050	< 0.050	<0.150	<0.300	<10	<10	<10
CP 5	0-6"	1460	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10
CP 6	0-6"	1400	<0.050	<0.050	<0.050	<0.150	<0.300	<10	1400	315
	1'	2680	<0.050	<0.050	0.126	<0.150	<0.300	<10	405	89
CP 7	0-6"	2320	<0.050	<0.050	<0.050	<0.150	<0.300	<10	118	38.4
CP 8	0-6"	352	<0.050	<0.050	<0.050	<0.150	<0.300	<50	2000	411
	1'	304	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	297	65.5

			Fir	ial Wall Samples	
CD C (CD C)	Lab CI	D	Talmana	Etleralle e e e e e	

Date	SP 6 (CP 6)	Lab CL	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO
11/19/2019	N Wall	368	0.091	<0.182	<0.025	<0.075	0.273	<50	456	173
11/19/2019	S Wall	288	<0.025	<0.025	<0.025	<0.075	<0.150	<10	11.6	<10
11/19/2019	W Wall	1470	<0.025	<0.025	<0.025	< 0.075	<0.150	<10	<10	<10
11/19/2019	E Wall	1760	<0.025	<0.025	<0.025	< 0.075	<0.150	<10	<10	<10

Date	SP 7 (SP 1)	Lab CL	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO
11/26/2019	S Wall	32	<0.050	<0.050	< 0.050	<0.150	<0.300	<10	126	63.9
11/26/2019	N Wall	112	<0.050	<0.050	< 0.050	<0.150	<0.300	<10	10.2	<10
11/26/2019	W Wall	16	<0.050	<0.050	< 0.050	<0.150	<0.300	<10	<10	<10
11/26/2019	E Wall	272	<0.050	< 0.050	< 0.050	<0.150	<0.300	<10	<10	<10

Date	SP 8 (CP 8)	Lab CL	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO
11/19/2019	N Wall	480	<0.025	<0.025	<0.025	< 0.075	<0.150	<10	39.9	11.8
11/19/2019	S Wall	1380	<0.025	<0.025	<0.025	< 0.075	<0.150	<10	666	138
11/19/2019	W Wall	1480	<0.025	<0.025	<0.025	< 0.075	<0.150	<50.0	3190	658
12/4/2019	W Wall	960	<0.050	<0.050	<0.050	<0.150	<0.300	<10	77.7	22
11/19/2019	E Wall	1170	<0.025	<0.025	< 0.025	< 0.075	<0.150	<10	991	272

October 10, 2018

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: TONY FEDERAL TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/09/18 16:15.

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

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

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

Accreditation applies to public drinking water matrices.

Celeg L. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



# Analytical Results For:

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

Fax To: (575) 393-2432

Received:

10/09/2018

Reported:

10/10/2018

Project Name: Project Number: TONY FEDERAL TANK BATTERY

Project Location:

NONE GIVEN **NOT GIVEN** 

Sampling Date:

10/09/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Received by OCD: 9/9/2020 1:40:25 PM

Sample Received By:

Tamara Oldaker

## Sample ID: SP 1 @ 6" (H802877-01)

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	10/10/2018	ND	1.94	96.9	2.00	2.63	
Toluene*	<0.050	0.050	10/10/2018	ND	1.83	91.5	2.00	3.13	
Ethylbenzene*	<0.050	0.050	10/10/2018	ND	1.82	91.2	2.00	1.59	
Total Xylenes*	<0.150	0.150	10/10/2018	ND	5.49	91.5	6.00	1.96	
Total BTEX	<0.300	0.300	10/10/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	115	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/10/2018	ND	464	116	400	3.51	
TPH 8015M	mg,	'kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	10/09/2018	ND	196	97.9	200	2.16	
DRO >C10-C28*	3850	50.0	10/09/2018	ND	216	108	200	7.67	
EXT DRO >C28-C36	1030	50.0	10/09/2018	ND					
Surrogate: 1-Chlorooctane	101	% 41-142	!						
Surrogate: 1-Chlorooctadecane	243	% 37.6-14	7						

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim ansing, whether based in contract or tord, shall be limited to the amount paid by client for analyses. any other cause whatquever shall be deemed weived unless made in writing and riscoved by Cardinal within thurty (30) days after completion of the apphicable service. In no event shall Cardinal be hable for incidental or consequential damages, including, without familiation, business interruptions, loss of use, or loss of year-loss incidental or consequential damages, including, without familiation, business interruptions, loss of use, or loss

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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:

10/09/2018

Sampling Date:

10/09/2018

Received by OCD: 9/9/2020 1:40:25 PM

Reported:

Sampling Type:

Soil

Project Name:

10/10/2018

TONY FEDERAL TANK BATTERY

151%

37.6-147

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

Project Number:

NONE GIVEN

Project Location: **NOT GIVEN** 

Sample ID: SP 1 @ 1' (H802877-02)

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	10/10/2018	ND	1.94	96.9	2.00	2.63	
Toluene*	<0.050	0.050	10/10/2018	ND	1.83	91.5	2.00	3.13	
Ethylbenzene*	<0.050	0.050	10/10/2018	ND	1.82	91.2	2.00	1.59	
Totai Xylenes*	0.195	0.150	10/10/2018	ND	5.49	91.5	6.00	1.96	
Total BTEX	<0.300	0.300	10/10/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	101	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Anatyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3720	16.0	10/10/2018	ND	464	116	400	3.51	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	10/09/2018	ND	196	97.9	200	2.16	
DRO >C10-C28*	3150	50.0	10/09/2018	ND	216	108	200	7.67	
EXT DRO >C28-C36	613	50.0	10/09/2018	ND					
Surrogate: 1-Chlorooctane	113	% 41-142	?						

**Cardinal Laboratories** 

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliables or successors among out of or related to the performance of the services hieraunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laborationes.

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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:

10/09/2018

Sampling Date:

10/09/2018

Received by OCD: 9/9/2020 1:40:25 PM

Reported:

10/10/2018

Sampling Type:

Soil

Project Name:

TONY FEDERAL TANK BATTERY

Sampling Condition:

Cool & Intact

Project Number: Project Location: NONE GIVEN **NOT GIVEN** 

Sample Received By:

Tamara Oldaker

Sample ID: SP 1 @ 2' (H802877-03)

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	10/09/2018	ND	1.94	96.9	2.00	2.63	
Toluene*	<0.050	0.050	10/09/2018	ND	1.83	91.5	2.00	3.13	
Ethylbenzene*	<0.050	0.050	10/09/2018	ND	1.82	91.2	2.00	1.59	
Total Xylenes*	<0.150	0.150	10/09/2018	ND	5.49	91.5	6.00	1.96	
Total BTEX	<0.300	0.300	10/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	95.5	% 69.8-14	2						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	B\$	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	10/10/2018	ND	448	112	400	0.00	QM-07
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	10/09/2018	ND	196	97.9	200	2.16	
DRO >C10-C28*	48.4	10.0	10/09/2018	ND	216	108	200	7.67	
EXT DRO >C28-C36	12.2	10.0	10/09/2018	ND					
Surrogate: 1-Chlorooctane	103	% 41-142							

Surrogate: 1-Chlorooctadecane

104%

37.6-147

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\*=Accredited Analyte

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# Analytical Results For:

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

Fax To: (575) 393-2432

Received:

10/09/2018

10/09/2018

Received by OCD: 9/9/2020 1:40:25 PM

Reported:

10/10/2018

Sampling Date: Sampling Type:

Soil

Project Name:

TONY FEDERAL TANK BATTERY

Sampling Condition:

Cool & Intact

Project Number: Project Location: NONE GIVEN

126 %

37.6-147

Sample Received By:

Tamara Oldaker

Sample ID: SP 1 @ 3' (H802877-04)

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	10/09/2018	ND	1.94	96.9	2.00	2.63	
Toluene*	<0,050	0.050	10/09/2018	ND	1.83	91.5	2.00	3.13	
Ethylbenzene*	<0.050	0.050	10/09/2018	ND	1.82	91.2	2.00	1.59	
Total Xylenes*	<0.150	0.150	10/09/2018	ND	5.49	91.5	6.00	1.96	
Total BTEX	<0.300	0.300	10/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIC	97.2	% 69.8-14	2						
Chloride, SM4500CI-B	mg/	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	10/10/2018	ND	448	112	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	10/09/2018	ND	196	97.9	200	2.16	
DRO >C10-C28*	184	10.0	10/09/2018	ND	216	108	200	7.67	
EXT DRO >C28-C36	37.2	10.0	10/09/2018	ND					
Surrogate: 1-Chlorooctane	118	% 41-142							

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Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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# Analytical Results For:

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

Fax To: (575) 393-2432

Received:

10/09/2018

Sampling Date:

10/09/2018

Received by OCD: 9/9/2020 1:40:25 PM

Reported:

10/10/2018

Sampling Type:

Soil

Project Name:

TONY FEDERAL TANK BATTERY

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

Project Number:

NONE GIVEN

Project Location:

**NOT GIVEN** 

Sample ID: SP 1 @ 4' (H802877-05)

BTEX 8021B	mg,	/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8\$	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2018	ND	1.94	96.9	2.00	2.63	
Toluene*	<0.050	0.050	10/09/2018	ND	1.83	91.5	2.00	3.13	
Ethylbenzene*	<0.050	0.050	10/09/2018	ND	1.82	91.2	2.00	1.59	
Total Xylenes*	<0.150	0.150	10/09/2018	ND	5.49	91.5	6.00	1.96	
Total BTEX	<0.300	0.300	10/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	95.7	% 69.8-14	12						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	10/10/2018	ND	448	112	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	10/09/2018	ND	196	97.9	200	2.16	
DRO >C10-C28*	79.3	10.0	10/09/2018	ND	216	108	200	7.67	
EXT DRO >C28-C36	<10.0	10.0	10/09/2018	ND					
Surrogate: 1-Chlorooctane	100	% 41-14.	?						
Surveyed A Chlomostadosus	102	0/ 17/1	.7						

Surrogate: 1-Chlorooctadecane

103 %

37.6-147

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\*=Accredited Analyte

any other cause whatsoever shall be deemed waived unless made in withing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for inodental or consequential damages, including, without lamination, business interruptions, loss of use or loss of use or loss of profits incurred by client, its subsidiaries, affiliates or successions arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratones.

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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:

10/09/2018

Sampling Date:

10/09/2018

Reported:

10/10/2018

Sampling Type:

Soil

Project Name:

TONY FEDERAL TANK BATTERY

Sampling Condition:

Cool & Intact

Project Number: Project Location: NONE GIVEN

102 %

37.6-147

Sample Received By:

Tamara Oldaker

Sample ID: SP 1 @ 5' (H802877-06)

EX 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	10/09/2018	ND	1.94	96.9	2.00	2.63	
Toluene*	<0.050	0.050	10/09/2018	ND	1.83	91.5	2.00	3.13	
Ethylbenzene*	<0.050	0.050	10/09/2018	ND	1.82	91.2	2.00	1.59	
Total Xylenes*	< 0.150	0.150	10/09/2018	ND	5.49	91.5	6.00	1.96	
Total BTEX	<0.300	0.300	10/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.7 9	69.8-14	2						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	10/10/2018	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/09/2018	ND	196	97.9	200	2.16	
DRO >C10-C28*	147	10.0	10/09/2018	ND	216	108	200	7.67	
EXT DRO >C28-C36	32.2	10.0	10/09/2018	ND					
Surrogate: 1-Chlorooctane	96.3 9	% 41-142	?						

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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## Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

10/09/2018

Reported:

10/10/2018

Project Name:

TONY FEDERAL TANK BATTERY

Project Number: Project Location:

NONE GIVEN

Sampling Date:

10/09/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 1 @ 6' (H802877-07)

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	10/09/2018	ND	1.94	96.9	2.00	2.63	
Toluene*	<0.050	0.050	10/09/2018	ND	1.83	91.5	2.00	3.13	
Ethylbenzene*	<0.050	0.050	10/09/2018	ND	1.82	91.2	2.00	1.59	
Total Xylenes*	<0.150	0.150	10/09/2018	ND	5.49	91.5	6.00	1.96	
Total BTEX	<0.300	0.300	10/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	94.7	% 69.8-14	12						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	10/10/2018	ND	448	112	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	10/09/2018	ND	196	97.9	200	2.16	
DRO >C10-C28*	<10.0	10.0	10/09/2018	ND	216	108	200	7.67	
EXT DRO >C28-C36	<10.0	10.0	10/09/2018	ND					
Surrogate: 1-Chlorooctane	97.5	% 41-142	?						
			3						

Surrogate: 1-Chlorooctadecane 94.5 % 37.6-147

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Usability and Damages. Cardinal's labbility and clean's exclusive remedy for any clean ansain, whicher based in contract or sort, shall be limited to the amount paid by Clean ansain, whicher based in contract or sort, shall be limited to the amount paid by Clean ansain, whicher based in contract or sort, shall be limited in any clean and any other cause whitesoever shall be deemed welved unless made in writing and received by Cleant, and received by Cleant, and indicates a soft or repeated to the performance of the services hereunder by Clerdinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Libboratomes.

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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:

10/09/2018

Sampling Date:

10/09/2018

Received by OCD: 9/9/2020 1:40:25 PM

Reported:

10/10/2018

Sampling Type:

Soil

Project Name:

TONY FEDERAL TANK BATTERY

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

Project Number:

NONE GIVEN

Project Location:

**NOT GIVEN** 

Sample ID: SP 1 @ 7' (H802877-08)

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	10/09/2018	ND	1.94	96.9	2.00	2.63	
Toluene*	<0.050	0.050	10/09/2018	ND	1.83	91.5	2.00	3.13	
Ethylbenzene*	<0.050	0.050	10/09/2018	ND	1.82	91.2	2.00	1.59	
Total Xylenes*	<0,150	0.150	10/09/2018	ND	5.49	91.5	6.00	1.96	
Total BTEX	<0.300	0.300	10/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	96.0	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	10/10/2018	ND	448	112	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	10/09/2018	ND	196	97.9	200	2.16	
DRO >C10-C28*	22.8	10.0	10/09/2018	ND	216	108	200	7.67	
EXT DRO >C28-C36	<10.0	10.0	10/09/2018	ND					
Surrogate: 1-Chlorooctane	97.4	% 41-142							
Surrogate: 1-Chlorooctadecane	95.5	% 37.6-14	7						

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\*=Accredited Analyte

any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be labele for incidental or consequential damages, including, without lamitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiances, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such

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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:

10/09/2018

Reported:

10/10/2018

Project Name:

TONY FEDERAL TANK BATTERY

Project Number: Project Location: NONE GIVEN

NOT GIVEN

Sampling Date:

10/09/2018

Received by OCD: 9/9/2020 1:40:25 PM

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 1 @ 8' (H802877-09)

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	10/10/2018	ND	1.94	96.9	2.00	2.63	
Toluene*	<0.050	0.050	10/10/2018	ND	1.83	91.5	2.00	3.13	
Ethylbenzene*	<0.050	0.050	10/10/2018	ND	1.82	91.2	2.00	1.59	
Total Xylenes*	<0.150	0.150	10/10/2018	ND	5.49	91.5	6.00	1.96	
Total BTEX	<0.300	0.300	10/10/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	107	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	10/10/2018	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	10/09/2018	ND	196	97.9	200	2.16	
DRO >C10-C28*	1920	50.0	10/09/2018	ND	216	108	200	7.67	
EXT DRO >C28-C36	474	50.0	10/09/2018	ND					
Surrogate: 1-Chlorooctane	95.3	% 41-142	)						

Surrogate: 1-Chlorooctadecane

148%

37.6-147

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liabling and Damages. Cardinal's liabling and clients exclusive remedy for any claim ansing, whether based in contract or tort, shall be imited to the amount paid by chent for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waved unless made in winting and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for encodental or consequencial damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such

Colog ? tricas



#### **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or
------	---

matrix interference's.

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

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Usability and Damages. Cardinal's liability and client's evolutive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by clent for analyses. All claims, including those for negligence and any other cause whatpouver shall be deemed waved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be hable for incidental or consequential damages, including, without immostorin, business interruptions, loss of use, or loss of profits incurred by client, its subsidiances, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such

Colony I . Kinne -

Page 11 of 12



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	(575) 393-2326 FAX (575) 393-24	76																					
Company Name	/ / suggestion								BI	LL TO	Sept.				•	ANA	LYSI	S RE	QUE	ST			
Project Manage	" Bruce Baker						P.C	). #:				Г											
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analyses. All claims include	id Damages. Cerdinal's liability and client's exclusive remedy for ig those for negligence and any other cause whatsoever shall b	: deeme	rd waiv	ed unk	ss mede in v	witing and	reces	red by D	Cardinal :	eith n 30 days aft	at completion of H	he sentinat	alle .					•					
service. In no event shall C afaliates or successors arisi	ardinal be Rable for incidental or consequental damages, including out of or related to the performance of services hereunder by	g withou	out limit.	abon, b rdiess :	usiness inter of whether su	ruptions. ch claim	bes of	use, or d upon	loss of p	rofts incurred by e above stated n	client, its subsidia asons or otherwis	ries, Le.											
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<sup>+</sup> Cardinal cannot account workel channes. Please fav written channes to 15751 202,222





October 12, 2018

**BRUCE BAKER** 

**APACHE CORP - HOBBS** 

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: TONY FEDERAL TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/11/18 13:33.

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.

Celeg D. Keine

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

Sincerely,

Celey D. Keene

Received by OCD: 9/9/2020 1:40:25 PM

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:

10/11/2018

10/12/2018

Sampling Date:

10/11/2018

Reported: Project Name:

TONY FEDERAL TANK BATTERY

Sampling Type:

Cool & Intact

Soil

Project Number:

NONE GIVEN

Sampling Condition: Sample Received By:

Jodi Henson

Project Location:

**NOT GIVEN** 

Sample ID: SP 1 @ 11' (H802911-01)

BTEX 8021B	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	10/11/2018	ND	2.14	107	2.00	0.672	
Toluene*	<0.050	0.050	10/11/2018	ND	2.03	102	2.00	0.830	
Ethylbenzene*	< 0.050	0.050	10/11/2018	ND	2.01	101	2.00	0.688	
Total Xylenes*	< 0.150	0.150	10/11/2018	ND	6.00	100	6.00	0.256	
Total BTEX	<0.300	0.300	10/11/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	95.6	% 69.8-14	2						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	10/12/2018	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	10/12/2018	ND	194	97.1	200	2.97	
DRO >C10-C28*	386	10.0	10/12/2018	ND	191	95.3	200	0.689	
EXT DRO >C28-C36	120	10.0	10/12/2018	ND					
Surrogate: 1-Chlorooctane	92.2	% 41-142	?						
			2						

Surrogate: 1-Chlorooctadecane

108 %

37.6-147

Cardinal Laboratories

Received by OCD: 9/9/2020 1:40:25 PM

\*=Accredited Analyte

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# Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 10/11/2018

10/12/2018

TONY FEDERAL TANK BATTERY

Project Name: Project Number: Project Location:

NONE GIVEN **NOT GIVEN** 

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: Cool & Intact

Soil

10/11/2018

Jodi Henson

Sample ID: SP 1 @ 12' (H802911-02)

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	10/11/2018	ND	2.14	107	2.00	0.672	
Toluene*	<0.050	0.050	10/11/2018	ND	2.03	102	2.00	0.830	
Ethylbenzene*	< 0.050	0.050	10/11/2018	ND	2.01	101	2.00	0.688	
Total Xylenes*	<0.150	0.150	10/11/2018	ND	6.00	100	6.00	0.256	
Total BTEX	<0.300	0.300	10/11/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL

Surrogate: I-Chlorooctane

Received by OCD: 9/9/2020 1:40:25 PM

Surrogate: 1-Chlorooctadecane

95.3%

92.2 %

103 %

69.8-142

41-142

37.6-147

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	10/12/2018	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/12/2018	ND	194	97.1	200	2.97	
DRO >C10-C28*	269	10.0	10/12/2018	ND	191	95.3	200	0.689	
EXT DRO >C28-C36	68.3	10.0	10/12/2018	ND					

\*=Accredited Analyte **Cardinal Laboratories** 

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# Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 10/11/2018

10/12/2018

TONY FEDERAL TANK BATTERY

Project Number: Project Location:

Project Name:

NONE GIVEN

Sampling Date:

ate: 10/11/2018

Sampling Type: Soil Sampling Condition: Cool

Sample Received By:

Cool & Intact

Jodi Henson

Sample ID: SP 1 @ 13' (H802911-03)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2018	ND	2.14	107	2.00	0.672	
Toluene*	<0.050	0.050	10/12/2018	ND	2.03	102	2.00	0.830	
Ethylbenzene*	<0.050	0.050	10/12/2018	ND	2.01	101	2.00	0.688	
Total Xylenes*	<0.150	0.150	10/12/2018	ND	6.00	100	6.00	0.256	
Total BTEX	<0.300	0.300	10/12/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.7	% 69 8-14	2						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	10/12/2018	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	10/12/2018	ND	194	97.1	200	2.97	
DRO >C10-C28*	366	10.0	10/12/2018	ND	191	95.3	200	0.689	
EXT DRO >C28-C36	95.0	10.0	10/12/2018	ND					
Surrogate: 1-Chlorooctane	92.6	% 41-142	?						
		8 25 8	21						

Surrogate: 1-Chlorooctadecane 109 % 37.6-147

Cardinal Laboratories

Received by OCD: 9/9/2020 1:40:25 PM

\*=Accredited Analyte

TICHE Uses that I use any other cause whatsoever shall be determed wasved unless made in vertical property of any usern ensuring those for indightence and any other cause whatsoever shall be determed wasved unless made in writing and received by Carolinal within thirty (30) days after completion of the applicable service. In no event shall Carolinal be hable for incidental or consequential damages including, without immalation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiances, affiliates or successors around not of or related to the performance of the services hereunder by Carolinal, regardless of whether sud them is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Carolinal Laborationes.

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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:

10/11/2018

Reported:

10/12/2018

Project Name: Project Number: TONY FEDERAL TANK BATTERY NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

Sampling Type: Soil

Sampling Condition: Sample Received By: Cool & Intact

10/11/2018

Jodi Henson

## Sample ID: SP 1 @ 14' (H802911-04)

BTEX 8021B	mg/	/kg	Analyze	d By: m\$					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/12/2018	ND	2.14	107	2.00	0.672	
Toluene*	<0.050	0.050	10/12/2018	ND	2.03	102	2.00	0.830	
Ethylbenzene*	<0.050	0.050	10/12/2018	ND	2.01	101	2.00	0.688	
Total Xylenes*	<0.150	0.150	10/12/2018	ND	6.00	100	6.00	0.256	
Total BTEX	<0.300	0.300	10/12/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	95.4	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	10/12/2018	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	10/12/2018	ND	190	95.0	200	0.209	
DRO >C10-C28*	90.4	10.0	10/12/2018	ND	195	97.7	200	1.78	
EXT DRO >C28-C36	14.7	10.0	10/12/2018	ND					
Surrogate: 1-Chlorooctane	91.5	% 41-142							
Surrogate: I-Chlorooctadecane	90.1	% 37_6-14	7						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whitesoever shall be deemed waived unless made in winning and received by Cardinal within thirty (30) days after completion of the applicable service, in no event shall Cardinal be fiable for modernal or consequential damages, including, without limitation, business informations, toos of use, or loss of profess incorrect by client, as including, without services along our of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laborationes.



Received by OCD: 9/9/2020 1:40:25 PM



#### **Notes and Definitions**

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or

matrix interference's.

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 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

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clearl's exclusive remedy for any dawn ansing, whether based in contract or tord, shall be limited to the amount paid by clearly all claims, including those for negligence and any other cause whatsoever shall be deemed wanted unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be habtle for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incidently by clerk, its subsidiance, affiliates or successors arosing out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated respons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratomes.

Codes Lations

Received by OCD: 9/9/2020 1:40:25 PM



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	(575) 393-2326 FAX (575) 393-24	76																										
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Lab I.D.  802911 22 33	Sample I.D.  SP   @ 11' SP   @ 12' SP   @ 13' SP   @ 14'	C P P P (G)RABJR (C)OMP	**CONTAINERS	GROUNDWATER	/ NASTEWATER	Off	SLUDGE	ACIONASE	CESCOOL	-	10 (1 10 /s	dis	711 9:8 9:0 9:4 4:8	/An-	7 1 1 1	トしてい		1/1/DEEX										
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October 12, 2018

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

RE: TONY FEDERAL TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/11/18 13:30.

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.

Celeg L. Keine

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

Sincerely,

Celey D. Keene

Received by OCD: 9/9/2020 1:40:25 PM

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:

10/11/2018

Sampling Date:

10/11/2018

Reported:

10/12/2018

Sampling Type:

Soil

Project Name: Project Number: TONY FEDERAL TANK BATTERY NONE GIVEN

Sampling Condition:

Cool & Intact

Project Location:

**NOT GIVEN** 

Sample Received By:

Jodi Henson

#### Sample ID: CP 1 @ 6" (H802910-01)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2018	ND	2.14	107	2.00	0.672	
Toluene*	<0.050	0.050	10/11/2018	ND	2.03	102	2.00	0.830	
Ethylbenzene*	<0.050	0.050	10/11/2018	ND	2.01	101	2.00	0.688	
Total Xylenes*	<0.150	0.150	10/11/2018	ND	6.00	100	6.00	0.256	
Total BTEX	<0.300	0.300	10/11/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	95.8	% 69.8-14	2						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	10/12/2018	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	10/11/2018	ND	194	97.1	200	2.97	
DRO >C10-C28*	83.4	10.0	10/11/2018	ND	191	95.3	200	0.689	
EXT DRO >C28-C36	22.1	10.0	10/11/2018	ND					
Surrogate: 1-Chlorooctane	91.5	% 41-142							
Surrogate: 1-Chlorooctadecane	96.4	% 37 6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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# Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

10/11/2018

Sampling Date:

10/11/2018

Reported:

10/12/2018

Sampling Type:

Soil

Project Name:

TONY FEDERAL TANK BATTERY

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

## Sample ID: CP 2 @ 6" (H802910-02)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	<b>8</b> S	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	10/11/2018	ND	2.14	107	2.00	0.672	
Toluene*	<0.050	0.050	10/11/2018	ND	2.03	102	2.00	0.830	
Ethylbenzene*	< 0.050	0.050	10/11/2018	ND	2,01	101	2.00	0.688	
Total Xylenes*	< 0.150	0.150	10/11/2018	ND	6.00	100	6.00	0.256	
Total 8TEX	<0.300	0.300	10/11/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	96.6	% 69.8-14	2						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/12/2018	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	10/11/2018	ND	194	97.1	200	2.97	
DRO >C10-C28*	850	10.0	10/11/2018	ND	191	95.3	200	0.689	
EXT DRO >C28-C36	195	10.0	10/11/2018	ND					
Surrogate: 1-Chlorooctane	86.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	125 9	% 37.6-14	7						

Cardinal Laboratories

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\*=Accredited Analyte

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# Analytical Results For:

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

Fax To:

10/11/2018

Received: Reported: 10/11/2018 10/12/2018 Sampling Date: Sampling Type:

Soil

Project Name:

TONY FEDERAL TANK BATTERY

Sampling Condition:

Cool & Intact

Project Number: Project Location: NONE GIVEN **NOT GIVEN** 

Sample Received By:

Jodi Henson

# Sample ID: CP 3 @ 6" (H802910-03)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2018	ND	2.14	107	2.00	0.672	
Toluene*	<0.050	0.050	10/11/2018	ND	2.03	102	2.00	0.830	
Ethylbenzene*	< 0.050	0.050	10/11/2018	ND	2.01	101	2.00	0.688	
Total Xylenes*	<0.150	0.150	10/11/2018	ND	6.00	100	6.00	0.256	
Total BTEX	<0.300	0.300	10/11/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	95.4	% 69.8-14	2						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/12/2018	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	10/12/2018	ND	194	97.1	200	2.97	
DRO >C10-C28*	233	10.0	10/12/2018	ND	191	95.3	200	0.689	
EXT DRO >C28-C36	76.0	10.0	10/12/2018	ND					
Surrogate: 1-Chloroociane	89.9	% 41-142	2						
Surrogate: 1-Chlorooctadecane	102	% 37.6-14	7						

Surrogate: 1-Chlorooctadecane

Cardinal Laboratories \*=Accredited Analyte

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# Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

10/11/2018

Sampling Date:

10/11/2018

Reported:

10/12/2018

Sampling Type:

Soil

Project Name:

TONY FEDERAL TANK BATTERY

Sampling Condition:

Cool & Intact

Project Number: Project Location: NONE GIVEN

Sample Received By:

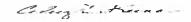
Jodi Henson

#### Sample ID: CP 4 @ 6" (H802910-04)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2018	ND	2.14	107	2.00	0.672	
Toluene*	<0.050	0.050	10/11/2018	ND	2.03	102	2.00	0.830	
Ethylbenzene*	<0.050	0.050	10/11/2018	ND	2.01	101	2.00	0.688	
Total Xylenes*	<0.150	0.150	10/11/2018	ND	6.00	100	6.00	0.256	
Total BTEX	<0.300	0.300	10/11/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIC	96.0	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/12/2018	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	10/12/2018	ND	194	97.1	200	2.97	
DRO >C10-C28*	<10.0	10.0	10/12/2018	ND	191	95.3	200	0.689	
EXT DRO >C28-C36	<10.0	10.0	10/12/2018	ND					
Surrogate: 1-Chlorooctane	88.9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	90.7	% 37.6-14	7						

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\*=Accredited Analyte



## Analytical Results For:

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

Fax To:

):

(575) 393-2432

Received:

10/11/2018

Sampling Date:

10/11/2018

Reported:

10/12/2018

Sampling Type:

Soil

Project Name:

TONY FEDERAL TANK BATTERY

Sampling Condition:

Cool & Intact

Project Number: Project Location: NONE GIVEN

Sample Received By:

Jodi Henson

#### Sample ID: CP 5 @ 6" (H802910-05)

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	10/11/2018	ND	2.14	107	2.00	0.672	
Toluene*	<0.050	0.050	10/11/2018	ND	2.03	102	2.00	0.830	
Ethylbenzene*	<0.050	0.050	10/11/2018	ND	2.01	101	2.00	0.688	
Total Xylenes*	<0.150	0.150	10/11/2018	ND	6.00	100	6.00	0.256	
Total BTEX	<0.300	0.300	10/11/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	95.3	% 69.8-14	2						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1460	16.0	10/12/2018	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	10/12/2018	ND	194	97.1	200	2.97	
DRO >C10-C28*	<10.0	10.0	10/12/2018	ND	191	95.3	200	0.689	
EXT DRO >C28-C36	<10.0	10.0	10/12/2018	ND					
Surrogate: 1-Chlorooctane	85.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	86.0	% 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:

10/11/2018

Reported:

10/12/2018

Project Name: Project Number: TONY FEDERAL TANK BATTERY NONE GIVEN

Project Location:

**NOT GIVEN** 

Sampling Date:

Sampling Type:

Sampling Condition:

Soil Cool & Intact

10/11/2018

Jodi Henson

Sample Received By:

# Sample ID: CP 6 @ 6" (H802910-06)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2018	ND	2.14	107	2.00	0.672	
Toluene*	<0.050	0.050	10/11/2018	ND	2.03	102	2.00	0.830	
Ethylbenzene*	< 0.050	0.050	10/11/2018	ND	2.01	101	2.00	0.688	
Total Xylenes*	< 0.150	0.150	10/11/2018	ND	6.00	100	6.00	0.256	
Total BTEX	<0.300	0.300	10/11/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	96.5	% 69.8-14	2						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1400	16.0	10/12/2018	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*	<50.0	50.0	10/12/2018	ND	194	97.1	200	2.97	
DRO >C10-C28*	1400	50.0	10/12/2018	ND	191	95.3	200	0.689	
EXT DRO >C28-C36	315	50.0	10/12/2018	ND					
Surrogate: 1-Chlorooctane	87.3	% 41-142							
Surrogate: 1-Chlorooctadecane	133	% 37.6-14	7						

\*=Accredited Analyte Cardinal Laboratories

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# Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

10/11/2018

Sampling Date:

10/11/2018

Reported:

10/12/2018

Sampling Type:

Soil

Project Name:

TONY FEDERAL TANK BATTERY

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: CP 7 @ 6" (H802910-07)

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	10/11/2018	ND	2.14	107	2.00	0.672	
Toluene*	<0.050	0.050	10/11/2018	ND	2.03	102	2.00	0.830	
Ethylbenzene*	<0.050	0.050	10/11/2018	ND	2.01	101	2.00	0.688	
Total Xylenes*	<0.150	0.150	10/11/2018	ND	6.00	100	6.00	0.256	
Total BTEX	<0.300	0.300	10/11/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	95.4	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	10/12/2018	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	10/12/2018	ND	194	97.1	200	2.97	
DRO >C10-C28*	118	10.0	10/12/2018	ND	191	95.3	200	0.689	
EXT DRO >C28-C36	38.4	10.0	10/12/2018	ND					
Surrogate: 1-Chlorooctane	91.1	% 41-142	?						
Surrogate: I-Chlorooctadecane	98.2	% 37_6-14	7						

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\*=Accredited Analyte

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## Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

10/11/2018

Sampling Date:

10/11/2018

Reported:

10/12/2018 TONY FEDERAL TANK BATTERY Sampling Type:

Soil

Project Name:

NONE GIVEN

Sampling Condition:

Cool & Intact

Project Number: Project Location:

**NOT GIVEN** 

Sample Received By:

Jodi Henson

#### Sample ID: CP 8 @ 6" (H802910-08)

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	10/11/2018	ND	2.14	107	2.00	0.672	
Toluene*	<0.050	0.050	10/11/2018	ND	2.03	102	2.00	0.830	
Ethylbenzene*	<0.050	0.050	10/11/2018	ND	2.01	101	2.00	0.688	
Total Xylenes*	<0.150	0.150	10/11/2018	ND	6.00	100	6.00	0.256	
Total BTEX	<0.300	0.300	10/11/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	94.2	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/12/2018	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	10/12/2018	ND	194	97.1	200	2.97	
DRO >C10-C28*	2000	50.0	10/12/2018	ND	191	95.3	200	0.689	
EXT DRO >C28-C36	411	50.0	10/12/2018	ND					
Surrogate: 1-Chlorooctane	91.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	169	% 37.6-14	7						

#### Cardinal Laboratories

Received by OCD: 9/9/2020 1:40:25 PM

\*=Accredited Analyte

any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without lamidoon, business interruptions, loss of use, or loss of profits incurred by client, its subsidiants, affiliates or successors aming out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to this samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laborationes.

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#### **Notes and Definitions**

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or

matrix interference's.

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 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

Cardinal Laboratories \*=Accredited Analyte

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Nam	e: Apoele								viii,	8	ILL TO				3,575			ANA	LYSI	S RI	EQU	EST		
Project Manage	e: Aprehe Brun Buller							P	.O. #				Т							T	T			$\Box$
Address:								C	omp	any:			٦							1	1			
City: Hololo	State: 11	ŊΖ	p: 1	32	24	0			ttn:				1						1	1	1			1
Phone #:	Fax #:	••		_				A	ddre	65:			1								ł.	1		
Project #:	Project Own	er:						C	ity:				1							1			9	
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October 16, 2018

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

**RE: TONY FEDERAL TANK BATTERY** 

Enclosed are the results of analyses for samples received by the laboratory on 10/15/18 16:20.

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.

Celeg L. Keine

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

Sincerely,

Celey D. Keene

Received by OCD: 9/9/2020 1:40:25 PM

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: Reported: 10/15/2018

10/16/2018

TONY FEDERAL TANK BATTERY

Project Number: Project Location:

Project Name:

NONE GIVEN NOT GIVEN

Sampling Date:

Sampling Type:

10/15/2018 Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

# Sample ID: COM POINT 6 @ 1' (H802956-01)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/16/2018	ND	2.27	114	2.00	0.142	
Toluene*	<0.050	0.050	10/16/2018	ND	2.14	107	2.00	0.735	
Ethylbenzene*	0.126	0.050	10/16/2018	ND	2.11	106	2.00	0.142	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.33	106	6.00	0.151	
Total BTEX	<0.300	0.300	10/16/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	109	% 69.8-14	2						
Chloride, SM4500CI-B	mg/kg		Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	10/16/2018	ND	432	108	400	3.64	
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	10/16/2018	ND	200	100	200	3.41	
DRO >C10-C28*	405	10.0	10/16/2018	ND	192	96.0	200	1.32	
EXT DRO >C28-C36	89.0	10.0	10/16/2018	ND					
Surrogate: 1-Chlorooctane	89.2	% 41-142	?						
Surrogate 1-Chlorooctadecane	103	% 37.6-14	7						

Cardinal Laboratories

Received by OCD: 9/9/2020 1:40:25 PM

\*=Accredited Analyte

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Colleg i trens



## Analytical Results For:

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

Fax To:

(575) 393-2432

Sampling Date:

Received: Reported: 10/15/2018 10/16/2018

Sampling Type:

Soil

Project Name:

TONY FEDERAL TANK BATTERY

Sampling Condition:

Cool & Intact

10/15/2018

Project Number:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

**NOT GIVEN** 

# Sample ID: COM POINT 8 @ 1' (H802956-02)

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	10/16/2018	ND	2.27	114	2.00	0.142	
Toluene*	<0.050	0.050	10/16/2018	ND	2.14	107	2.00	0.735	
Ethylbenzene*	<0.050	0.050	10/16/2018	ND	2.11	106	2.00	0.142	
Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.33	106	6.00	0.151	
Total BTEX	<0.300	0.300	10/16/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.9	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	10/16/2018	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d 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	10/16/2018	ND	200	100	200	3.41	
DRO >C10-C28*	297	10.0	10/16/2018	ND	192	96.0	200	1.32	
EXT DRO >C28-C36	65.5	10.0	10/16/2018	ND					
Surrogate: 1-Chlorooctane	92.6	% 41-142	ļ						
Surrogate: 1-Chlorooctadecane	104	% 37.6-14	7						

Cardinal Laboratories

\*=Accredited Analyte

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#### **Notes and Definitions**

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

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

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Labelity and Damages. Cardinal's liability and cherit's eviclusive reimedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by cleint for analyses. All claims, including those for negligence and any other cause whitsporter shall be determed wared unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for inoderical or consequential damages, methods in material tender, within the same transport of or related to the performance of the services hereinder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples dentified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratores.

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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November 29, 2018

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: TONY FEDERAL TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/20/18 16:05.

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

Celey D. Keine

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. 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: 11/20/2018 Sampling Date: 11/19/2018

Reported: 11/29/2018 Sampling Type: Soil

Project Name: TONY FEDERAL TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

#### Sample ID: SP6 N WALL 1' (H803405-01)

STEX 8260B	mg,	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.091	0.025	11/28/2018	ND	2.12	106	2.00	0.901	
Toluene*	0.182	0.025	11/28/2018	ND	2.31	116	2.00	2.16	
Ethylbenzene*	<0.025	0.025	11/28/2018	ND	2.19	110	2.00	1.36	
Total Xylenes*	<0.075	0.075	11/28/2018	ND	7.42	124	6.00	2.17	
Total BTEX	0.273	0.150	11/28/2018	ND					
Surrogate: Dibromofluoromethane	105	% 90.4-11	1						
Surrogate: Toluene-d8	105	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	87.8	% 80.1-12	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	11/28/2018	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*	<50.0	50.0	11/27/2018	ND	200	100	200	13.2	
DRO >C10-C28*	456	50.0	11/27/2018	ND	221	111	200	10.5	
EXT DRO >C28-C36	173	50.0	11/27/2018	ND					
Surrogate: 1-Chlorooctane	79.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	111 9	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



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

#### Analytical Results For:

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

Fax To: (575) 393-2432

Received: 11/20/2018 Sampling Date: 11/19/2018

Reported: Sampling Type: Soil 11/29/2018

Project Name: TONY FEDERAL TANK BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN** 

#### Sample ID: SP6 S WALL 1' (H803405-02)

BTEX 8260B	mg,	/kg	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/28/2018	ND	2.12	106	2.00	0.901	
Toluene*	<0.025	0.025	11/28/2018	ND	2.31	116	2.00	2.16	
Ethylbenzene*	<0.025	0.025	11/28/2018	ND	2.19	110	2.00	1.36	
Total Xylenes*	<0.075	0.075	11/28/2018	ND	7.42	124	6.00	2.17	
Total BTEX	<0.150	0.150	11/28/2018	ND					
Surrogate: Dibromofluoromethane	106	% 90.4-11	1						
Surrogate: Toluene-d8	97.1	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	79.6	% 80.1-12	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3160	16.0	11/28/2018	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	11/27/2018	ND	200	100	200	13.2	
DRO >C10-C28*	11.6	10.0	11/27/2018	ND	221	111	200	10.5	
EXT DRO >C28-C36	<10.0	10.0	11/27/2018	ND					
Surrogate: 1-Chlorooctane	81.7	% 41-142	?						
Surrogate: 1-Chlorooctadecane	88.7	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



#### Analytical Results For:

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

Fax To: (575) 393-2432

Received: 11/20/2018 Sampling Date: 11/19/2018

Reported: 11/29/2018 Sampling Type: Soil

Project Name: TONY FEDERAL TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Analyzed By: ms

Project Location: NOT GIVEN

mg/kg

#### Sample ID: SP6 W WALL 1' (H803405-03)

BTEX 8260B

DILX 0200D	ilig	/ Ng	Allalyze	a by. IIIs					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/28/2018	ND	2.12	106	2.00	0.901	
Toluene*	<0.025	0.025	11/28/2018	ND	2.31	116	2.00	2.16	
Ethylbenzene*	<0.025	0.025	11/28/2018	ND	2.19	110	2.00	1.36	
Total Xylenes*	<0.075	0.075	11/28/2018	ND	7.42	124	6.00	2.17	
Total BTEX	<0.150	0.150	11/28/2018	ND					
Surrogate: Dibromofluoromethane	104	% 90.4-11	1						
Surrogate: Toluene-d8	103	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	85.6	% 80.1-12	21						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1470	16.0	11/28/2018	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2018	ND	200	100	200	13.2	
DRO >C10-C28*	<10.0	10.0	11/27/2018	ND	221	111	200	10.5	
EXT DRO >C28-C36	<10.0	10.0	11/27/2018	ND					
Surrogate: 1-Chlorooctane	89.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	96.5	% 37.6-14	!7						

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#### Analytical Results For:

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

mg/kg

Received: 11/20/2018 Sampling Date: 11/19/2018

Reported: 11/29/2018 Sampling Type: Soil

Project Name: TONY FEDERAL TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Analyzed By: ms

Project Location: NOT GIVEN

#### Sample ID: SP6 E WALL 1' (H803405-04)

BTEX 8260B

DILX 0200D	ilig	kg	Allalyze	a by. IIIs					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/28/2018	ND	2.12	106	2.00	0.901	
Toluene*	<0.025	0.025	11/28/2018	ND	2.31	116	2.00	2.16	
Ethylbenzene*	<0.025	0.025	11/28/2018	ND	2.19	110	2.00	1.36	
Total Xylenes*	<0.075	0.075	11/28/2018	ND	7.42	124	6.00	2.17	
Total BTEX	<0.150	0.150	11/28/2018	ND					
Surrogate: Dibromofluoromethane	106	% 90.4-11	1						
Surrogate: Toluene-d8	99.6	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	82.5	% 80.1-12	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	11/28/2018	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/27/2018	ND	200	100	200	13.2	
DRO >C10-C28*	<10.0	10.0	11/27/2018	ND	221	111	200	10.5	
EXT DRO >C28-C36	<10.0	10.0	11/27/2018	ND					
Surrogate: 1-Chlorooctane	90.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	98.7	% 37.6-14	7						

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11/19/2018

#### Analytical Results For:

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

Received: 11/20/2018 Sampling Date:

Reported: 11/29/2018 Sampling Type: Soil

Project Name: TONY FEDERAL TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Analyzed By: me

Project Location: NOT GIVEN

#### Sample ID: SP8 N WALL 1' (H803405-05)

DTEV 9260B

BTEX 8260B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/28/2018	ND	2.12	106	2.00	0.901	
Toluene*	<0.025	0.025	11/28/2018	ND	2.31	116	2.00	2.16	
Ethylbenzene*	<0.025	0.025	11/28/2018	ND	2.19	110	2.00	1.36	
Total Xylenes*	<0.075	0.075	11/28/2018	ND	7.42	124	6.00	2.17	
Total BTEX	<0.150	0.150	11/28/2018	ND					
Surrogate: Dibromofluoromethane	108	% 90.4-11	1						
Surrogate: Toluene-d8	99.7	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	81.1	% 80.1-12	21						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	11/28/2018	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	11/27/2018	ND	200	100	200	13.2	
DRO >C10-C28*	39.9	10.0	11/27/2018	ND	221	111	200	10.5	
EXT DRO >C28-C36	11.8	10.0	11/27/2018	ND					
Surrogate: 1-Chlorooctane	87.7	% 41-142	?						
Surrogate: 1-Chlorooctadecane	95.4	% 37.6-14	!7						

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

#### Analytical Results For:

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

Fax To: (575) 393-2432

Received: 11/20/2018 Sampling Date: 11/19/2018

Reported: Sampling Type: Soil 11/29/2018

Project Name: TONY FEDERAL TANK BATTERY Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN** 

#### Sample ID: SP8 S WALL 1' (H803405-06)

BTEX 8260B	mg	/kg	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/28/2018	ND	2.12	106	2.00	0.901	
Toluene*	<0.025	0.025	11/28/2018	ND	2.31	116	2.00	2.16	
Ethylbenzene*	<0.025	0.025	11/28/2018	ND	2.19	110	2.00	1.36	
Total Xylenes*	<0.075	0.075	11/28/2018	ND	7.42	124	6.00	2.17	
Total BTEX	<0.150	0.150	11/28/2018	ND					
Surrogate: Dibromofluoromethane	109	% 90.4-11	1						
Surrogate: Toluene-d8	96.9	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	131	% 80.1-12	1						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1310	16.0	11/28/2018	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	11/27/2018	ND	200	100	200	13.2	
DRO >C10-C28*	666	10.0	11/27/2018	ND	221	111	200	10.5	
EXT DRO >C28-C36	138	10.0	11/27/2018	ND					
Surrogate: 1-Chlorooctane	89.9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	126	% 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: 11/20/2018 Sampling Date: 11/19/2018

Reported: 11/29/2018 Sampling Type: Soil

Project Name: TONY FEDERAL TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

#### Sample ID: SP8 W WALL 1' (H803405-07)

BTEX 8260B	mg	/kg	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/28/2018	ND	2.12	106	2.00	0.901	
Toluene*	<0.025	0.025	11/28/2018	ND	2.31	116	2.00	2.16	
Ethylbenzene*	<0.025	0.025	11/28/2018	ND	2.19	110	2.00	1.36	
Total Xylenes*	<0.075	0.075	11/28/2018	ND	7.42	124	6.00	2.17	
Total BTEX	<0.150	0.150	11/28/2018	ND					
Surrogate: Dibromofluoromethane	107	% 90.4-11	1						
Surrogate: Toluene-d8	82.8	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	155	% 80.1-12	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1490	16.0	11/28/2018	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*	<50.0	50.0	11/27/2018	ND	200	100	200	13.2	
DRO >C10-C28*	3190	50.0	11/27/2018	ND	221	111	200	10.5	
EXT DRO >C28-C36	658	50.0	11/27/2018	ND					
Surrogate: 1-Chlorooctane	85.4	% 41-142	?						
Surrogate: 1-Chlorooctadecane	139	% 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: 11/20/2018 Sampling Date: 11/19/2018

Reported: Sampling Type: Soil 11/29/2018

Project Name: TONY FEDERAL TANK BATTERY Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: **NOT GIVEN** 

#### Sample ID: SP8 E WALL 1' (H803405-08)

BTEX 8260B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/28/2018	ND	2.12	106	2.00	0.901	
Toluene*	<0.025	0.025	11/28/2018	ND	2.31	116	2.00	2.16	
Ethylbenzene*	<0.025	0.025	11/28/2018	ND	2.19	110	2.00	1.36	
Total Xylenes*	<0.075	0.075	11/28/2018	ND	7.42	124	6.00	2.17	
Total BTEX	<0.150	0.150	11/28/2018	ND					
Surrogate: Dibromofluoromethane	101	% 90.4-11	1						
Surrogate: Toluene-d8	101	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	120	% 80.1-12	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	11/28/2018	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	11/27/2018	ND	200	100	200	13.2	
DRO >C10-C28*	991	10.0	11/27/2018	ND	221	111	200	10.5	
EXT DRO >C28-C36	272	10.0	11/27/2018	ND					
Surrogate: 1-Chlorooctane	88.4	% 41-142	?						
Surrogate: 1-Chlorooctadecane	132	% 37.6-14	7						

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#### **Notes and Definitions**

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ecovery.

BS1 Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.

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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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Released to Imaging: 1/25/2023 10:23:25 AM

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

	575) 393-2326 FAX (575) 393-24	76																						
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affiliates or successors arising out of or related to the performance of	f services hereunder by Ca	rdinal, regardless of whether such claim is base	ed upon any of the above stated re-	asons or otherwise.				
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December 03, 2018

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: TONY FEDERAL TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/26/18 16:25.

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

Celey D. Keine

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. 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: 11/26/2018 Sampling Date: 11/26/2018

Reported: 12/03/2018 Sampling Type: Soil

Project Name: TONY FEDERAL TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By me

Project Location: NOT GIVEN

#### Sample ID: S WALL SP7 @ 2' (H803449-01)

DTEV 0021D

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	11/30/2018	ND	1.84	92.0	2.00	1.42	
Toluene*	<0.050	0.050	11/30/2018	ND	1.81	90.6	2.00	0.406	
Ethylbenzene*	<0.050	0.050	11/30/2018	ND	1.74	87.1	2.00	0.831	
Total Xylenes*	<0.150	0.150	11/30/2018	ND	5.56	92.6	6.00	1.59	
Total BTEX	<0.300	0.300	11/30/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	32.0	16.0	11/29/2018	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	11/30/2018	ND	206	103	200	7.28	
DRO >C10-C28*	126	10.0	11/30/2018	ND	215	107	200	10.2	
EXT DRO >C28-C36	63.9	10.0	11/30/2018	ND					
Surrogate: 1-Chlorooctane	88.5	% 41-142	!						
Surrogate: 1-Chlorooctadecane	103	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



#### Analytical Results For:

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

Received: 11/26/2018 Sampling Date: 11/26/2018

Reported: 12/03/2018 Sampling Type: Soil

Project Name: TONY FEDERAL TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: me

Project Location: NOT GIVEN

#### Sample ID: N WALL SP7 @ 2' (H803449-02)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/30/2018	ND	1.84	92.0	2.00	1.42	
Toluene*	<0.050	0.050	11/30/2018	ND	1.81	90.6	2.00	0.406	
Ethylbenzene*	<0.050	0.050	11/30/2018	ND	1.74	87.1	2.00	0.831	
Total Xylenes*	<0.150	0.150	11/30/2018	ND	5.56	92.6	6.00	1.59	
Total BTEX	<0.300	0.300	11/30/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	112	16.0	11/29/2018	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	11/30/2018	ND	206	103	200	7.28	
DRO >C10-C28*	10.2	10.0	11/30/2018	ND	215	107	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	11/30/2018	ND					
Surrogate: 1-Chlorooctane	88.4	% 41-142	•						
Surrogate: 1-Chlorooctadecane	98.3	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



#### Analytical Results For:

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

Received: 11/26/2018 Sampling Date: 11/26/2018

Reported: 12/03/2018 Sampling Type: Soil

Project Name: TONY FEDERAL TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: me

Project Location: NOT GIVEN

#### Sample ID: W WALL SP7 @ 2' (H803449-03)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/30/2018	ND	1.84	92.0	2.00	1.42	
Toluene*	<0.050	0.050	11/30/2018	ND	1.81	90.6	2.00	0.406	
Ethylbenzene*	<0.050	0.050	11/30/2018	ND	1.74	87.1	2.00	0.831	
Total Xylenes*	<0.150	0.150	11/30/2018	ND	5.56	92.6	6.00	1.59	
Total BTEX	<0.300	0.300	11/30/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	11/29/2018	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	11/30/2018	ND	218	109	200	2.03	
DRO >C10-C28*	<10.0	10.0	11/30/2018	ND	222	111	200	0.654	
EXT DRO >C28-C36	<10.0	10.0	11/30/2018	ND					
Surrogate: 1-Chlorooctane	91.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	96.1	% 37.6-14	7						

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Celey D. Keine



#### Analytical Results For:

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

Received: 11/26/2018 Sampling Date: 11/26/2018

Reported: 12/03/2018 Sampling Type: Soil

Project Name: TONY FEDERAL TANK BATTERY Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: **NOT GIVEN** 

#### Sample ID: E WALL SP7 @ 2' (H803449-04)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/30/2018	ND	1.84	92.0	2.00	1.42	
Toluene*	<0.050	0.050	11/30/2018	ND	1.81	90.6	2.00	0.406	
Ethylbenzene*	<0.050	0.050	11/30/2018	ND	1.74	87.1	2.00	0.831	
Total Xylenes*	<0.150	0.150	11/30/2018	ND	5.56	92.6	6.00	1.59	
Total BTEX	<0.300	0.300	11/30/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 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	272	16.0	11/29/2018	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	11/30/2018	ND	218	109	200	2.03	
DRO >C10-C28*	<10.0	10.0	11/30/2018	ND	222	111	200	0.654	
EXT DRO >C28-C36	<10.0	10.0	11/30/2018	ND					
Surrogate: 1-Chlorooctane	95.1 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	99.4	% 37.6-14	7						

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Celey D. Keine



#### **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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Celey D. Keene



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Released to Imaging: 1/25/2023 10:23:25 AM

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

+ Cardinal cannot account workal changes Dloace for written changes to (575) 303-2326

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FOR LAB USE ONLY	00-0			П		MA	TRIX		PRESERV. SAMPLING				1					1									
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December 07, 2018

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: TONY FEDERAL TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/04/18 14:40.

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

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

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

Fax To: (575) 393-2432

Received: 12/04/2018 Sampling Date: 12/04/2018

Reported: 12/07/2018 Sampling Type: Soil

Project Name: TONY FEDERAL TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Analyzed By me

Project Location: NOT GIVEN

#### **Sample ID: SP 8 WEST WALL (H803560-01)**

DTEV 0021D

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	12/05/2018	ND	2.01	101	2.00	8.83	
Toluene*	<0.050	0.050	12/05/2018	ND	1.96	97.9	2.00	8.15	
Ethylbenzene*	<0.050	0.050	12/05/2018	ND	1.90	94.9	2.00	7.64	
Total Xylenes*	<0.150	0.150	12/05/2018	ND	6.07	101	6.00	7.53	
Total BTEX	<0.300	0.300	12/05/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	12/05/2018	ND	416	104	400	3.77	
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	12/06/2018	ND	200	99.9	200	8.02	
DRO >C10-C28*	77.7	10.0	12/06/2018	ND	211	106	200	8.47	
EXT DRO >C28-C36	22.0	10.0	12/06/2018	ND					
Surrogate: 1-Chlorooctane	97.5	% 41-142	!						
Surrogate: 1-Chlorooctadecane	111	% 37.6-14	7						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



#### **Notes and Definitions**

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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 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

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	: Apache		BILL TO ANALYSIS REQUEST							
Project Manager	"Bruce Roller		P.O. #:	AWALTOIS ALEGES!						
Address:			Company:							
City: 1406	os State: UU	zip: 88240	Attn:							
Phone #:	Fax #:		Address:							
Project #:	Project Owne	r:	City:							
Project Name:			State: Zip:							
Project Location	: Tony Feel Tanle	Battery	Phone #:							
Sampler Name:	Cr. Oursaile	3.1.10	Fax #:							
FOR LAB USE ONLY	9	MATRIX	PRESERV. SAMPLING							
		(C)OMP ERS ATER TER		과						
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Lab I.D.	Sample I.D.	ITAIN NDV EWA	3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.							
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PLEASE NOTE: Liability an	d Damages. Cardinal's liability and client's exclusive remedy for	any claim arising whether based in coalso	of act of shall be finished to the account of the							
analyses. All claims includin	g those for negligence and any other cause whatsoever shall be ardinal be liable for incidental or consequental damages, includin	deemed waived unless made in writing a	nd received by Cardinal within 30 days after com	mpletion of the applicable						
Relinquished By	ng out of or related to the performance of services hereunder by	Cardinal, regardless of whether such clain	n is based upon any of the above stated reasons	s or otherwise.						
la distinct di	12/4/17	Received By:	Fa Fa	hone Result: ☐ Yes ☐ No Add'l Phone #: ax Result: ☐ Yes ☐ No Add'l Fax #:						
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# **Photos**





From: <u>Pruett, Maria, EMNRD</u>

To: Baker, Larry; "stucker@blm.gov"
Cc: Bratcher, Michael, EMNRD

Subject: [EXTERNAL] Closure Approved RE: [EXT] FW: Tony Federal Battery corrective action plan 2RP 2071, 2132,2509

**Date:** Saturday, November 3, 2018 6:57:13 PM

Hello Mr. Baker,

The closure for 2RP 2071, 2132 and 2509 has been approved.

Best Regards,

Environmental Specialist

Maria Pruett

N.M. Oil Conservation Division

District 2

811 S. 1st Street

Artesia, NM 88210

Desk: 575 748-1283 X 101

Cell: 575 840-5963 Fax: 575748-9720

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

**From:** Baker, Larry <Larry.Baker@apachecorp.com>

Sent: Tuesday, October 30, 2018 2:54 PM

To: Pruett, Maria, EMNRD < Maria. Pruett@state.nm.us>; 'stucker@blm.gov' < stucker@blm.gov>

Subject: [EXT] FW: Tony Federal Battery corrective action plan 2RP 2071, 2132,2502

Ms. Pruett.

Attached is the page 5 of the new C-141 that we discuss on Friday. Apache Corporation appreciates all your help in resolving this issue. Please let me know if you need anything else or wish to discuss. Thanks and have a good day.

# BRUCE BAKER

**ENVIRONMENTAL TECHNICIAN SR** 

direct 575-393-7106 ext 1523 | Cell 432-631-6982

APACHE CORPORATION

2350 W. MARLAND BLVD

HOBBS, NM 88240

<u>ApacheCorp.com</u> | <u>LinkedIn</u> | <u>Facebook</u> | <u>Twitter</u> | <u>StockTwits</u> | <u>YouTube</u>

**From:** Baker, Larry

Sent: Tuesday, October 16, 2018 4:34 PM

To: 'Pruett, Maria, EMNRD' < <a href="mailto:Maria.Pruett@state.nm.us">Maria.Pruett@state.nm.us</a>; 'stucker@blm.gov' < <a href="mailto:stucker@blm.gov">stucker@blm.gov</a>>

**Subject:** Tony Federal Battery corrective action plan 2RP 2071,2132,2502

All,

Attached is the corrective action plan for your review and approval. Please let me know if you have any questions or wish to discuss. Thanks and have a good day.

#### BRUCE BAKER

ENVIRONMENTAL TECHNICIAN SR

direct 575-393-7106 ext 1523 | Cell 432-631-6982

APACHE CORPORATION 2350 W. MARLAND BLVD

HOBBS, NM 88240

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

CONDITIONS

Action 10091

#### **CONDITIONS**

Operator:	OGRID:
APACHE CORPORATION	873
303 Veterans Airpark Ln	Action Number:
Midland, TX 79705	10091
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By		Condition Date
amaxwell	None	1/25/2023