

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 9:00:47 AM

11/15/13

* Attach Additional Sheets If Necessary

Phone: 432-631-6982

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

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Form C-141 Revised August 8, 2011

Released to Imaging: 2/10/2023 8:18:30 AM

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 NIM Comm. A Conty Congression of the procession of the procession

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By Whom?	Bruce Baker	- 100 - 100				Date and H	our 11/14/13 at 3	3:00 p.m.				
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20.00			Yes 🛛	No		ļ						İ
If a Watercou	rse was Inip	acted, Descri	be Fully.*									
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Describe Area	Affected at	nd Cleanup A	ction Take	en.*								
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produce water	•											i
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I hereby certif	y that the in	formation giv	en above	is true and compl	cic to I	he best of my l	cnowledge and in	nderstand tha	t pursuant	to NMC	OCD ni	les and
regulations all	operators at	e required to	report and	i/or file certain re	lense n	otifications and	d perform correct	live actions f	or release:	s which i	may en	danger
public health of	or the enviro	nmeat. The s	acceptance	of a C-141 repo	rl by lh	e NMOCD ma	rked as "Final Re	port" does n	ot relieve	the open	lor of	Liability
or the envirous	nent. In ada	fition. NMO	30quarery i 3D accents	investigate and re ance of a C-141 r	nacerat h trone	ocs not relieve	the operator of r	at to ground	for compl	lience wat	ith anv	other
federal, state, o					eport (000 1101 1011010	the operator of the	сэровзютиу	tor comp	mines ()		1
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Signature:	Rouse	Buher									_	
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Printed Name:	Bruce Bake	er				Approved by E	invironmental Sp	signed By	Telile.	100	mule	<u> </u>
						NC)V 19 201	3				
Title: Environ	mental Tech	nician				Approval Date		Expira	tion Date:	:		
E-mail Address	e larev bak	r(Manacheco	rn com		· [.	Conditions of A	t angovat-		1			[
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like approval by BLM. SUBMIT REMEDIATION

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

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State of New Mexico Energy Minerals and Natural Resources

DEC 2 0 2013

Form C-141 Revised August 8, 2011

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Oil Conservation Division 1220 South St. Francis Dr.

NM Sibmil 1 Copy to impropriate District Office in accordance with 19.15.29 NMAC.

1220 S. St. Fran	cis Dr., Sant	a Fe, NM 8750:		S	anta F	e, NM 87 <u>5</u>	505						
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Surface Ow	ner BLM			Mineral ()wner				APING	o. 30-015-3	0244		
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Source of Release Water Tank Was Immediate Notice Given?						12/15/2013	our of Occurrent at 8:00 a.m.	e	Date and 12/15/201	Hour of Dise 13 at 8:00 a.i	covery n.		
		⊠	Yes 🗆	No 🔲 Not Re	quired		her (NMOCD) a	nd Jeffe	ry Robertso	on (BLM)			
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Printed Name:	Bruce Bak	cr				Approved by I	Environmental Sp	ecialist: Şig	ned By	alite,	Bra	ruise_	
Title: Environ	mental Tec	hnician			1	pproval Date	N 0 2 2014	_ G	xpiration E	Date:	94		
E-mail Address	: larry.bak	er@apacheco	rp.com			Conditions of	Approval:			Attached			
Date: 12/20/20		1631		(432) 631-6982	•		per OCD Rule & y BLM: <u>SUBMIT</u>						
Attach Additio	onal Sheet: -	s II Necessar	У		ī		SAL NO LATER			2RP-	213	32	

Received by OCD: 9/9/2020 9:00:47 AM

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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 SubmiREGENT EDopriate District Office in accordance with 19.15.29 NMAC.

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		land Blvd H Federal Batte		1 88240		Telephone f Facility Typ	No. (432) 631-6	982				
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Surface Ow	ner BLM			Mineral (<u>Jwner</u>				APING	s. 30-015-3	0244	
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Unit Letter K	Section 18	Township 17S	Range 31E	Feet from the	North FSL	/South Line	Feet from the	East/\ F\VL	Vest Line	County Eddy		
			La	titude		Longitud	e		-			
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Source of Re	lease Water	r and Oil Tanl	<u> </u>			Date and H	our of Occurrenc		Date and	Hour of Dis		,
Was Immedia	te Notice G	liven?				9/19/2014 a			9/19/2014	l at 4:00 a.m		
			Yes 🔲	No 🔲 Not Re	equired		her (NMOCD) an	d Jim /	Amos (BLN	5)		
By Whom?							our 9/19/2014 at					
Was a Watero	ourse Reac		Yes 🛛	No		If YES, Vo	lume Impacting ti	he Wate	ercourse.			
If a Watercou	rse was Imp	acted, Descri	be Fully.*			0.00						
Describe Caus	se of Proble	m and Remed	lial Action	Taken.*								
			power out	age at facility. T	he powe	er outage caus	ed all the transfer	punnps	and Lact u	nit to fail res	ulting	in the tanks
to overflow.	ine power v	vas restored.										
l				33								
Describe Area	Affected as	nd Cleanup A	ction Take	en.•					<u> </u>			
The release are	ea was cont	nined inside ti	he bermed	area and lease pa	ad. A va	scuum truck w	as dispatched to p	pick-up	standing fl	uiđ.		1
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I hereby certify	v that the in	formation giv	en above	s true and compl	ete to th	e best of my k	nowledge and un	derstan	d that nursi	ent to NMC	CD n	iles and
regulations all	operators a	re required to	report and	Vor file certain re	lease no	tifications and	perform correcti	ve actio	ons for rele	ases which n	nay cu	danger
public health o should their op	erations ha	nment. The a	icceptance lequately i	or a C-141 repoinvestigate and re	n by me mediate	NMOCD mar contamination	rked as "Final Rep in that pose a three	port" de It to gre	es not relic ound water.	ve the opera surface wat	tor of er, hur	nan health
or the environs federal, state, o	nent. In ad	dition, NMO(CD accepts	ince of a C-141 r	eport do	es not relieve	the operator of re	sponsit	ility for co	mpliance wi	th any	other
iederal, siate, t	N IOCAI MINAS	and/or regu	mons.				OIL CONS	ERV	ATION	DIVISIO	V	
Signature:	Bruce	a.L.	4				9.4 99.10			,	7	
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Printed Name:	Bruce Bak	er			·			, VIIII 1911.		-		
Title: Environ	mental Tecl	mician			A	pproval Date:	9/23/14	E.	xpiration D	nto:		
E-mail Address	s: larry.bak	er@apacheco	тр.сот		c	Conditions of A	Approval:			Attached		
Date: 9/22/201	14	18 G p	hone: (43				D.C.D. Rules				_	
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Received by OCD: 9/9/2020 9:00:47 AM State of New Mexico
Page 3 Oil Conservation Division

	Page 7 of 74
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 not on an exploration, development, production, or storage site?	☐ Yes ☑ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
 ✓ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data ✓ Data table of soil contaminant concentration data ✓ Depth to water determination ✓ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release ✓ Boring or excavation logs ✓ Photographs including date and GIS information ✓ Topographic/Aerial maps ✓ Laboratory data including chain of custody 	ls.
☐ Laboratory data including chain of custody	

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Received by OCD: 9/9/2020 9:00:47 AM State of New Mexico
Page 4 Oil Conservation Division

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 regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a thr addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	oCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
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:

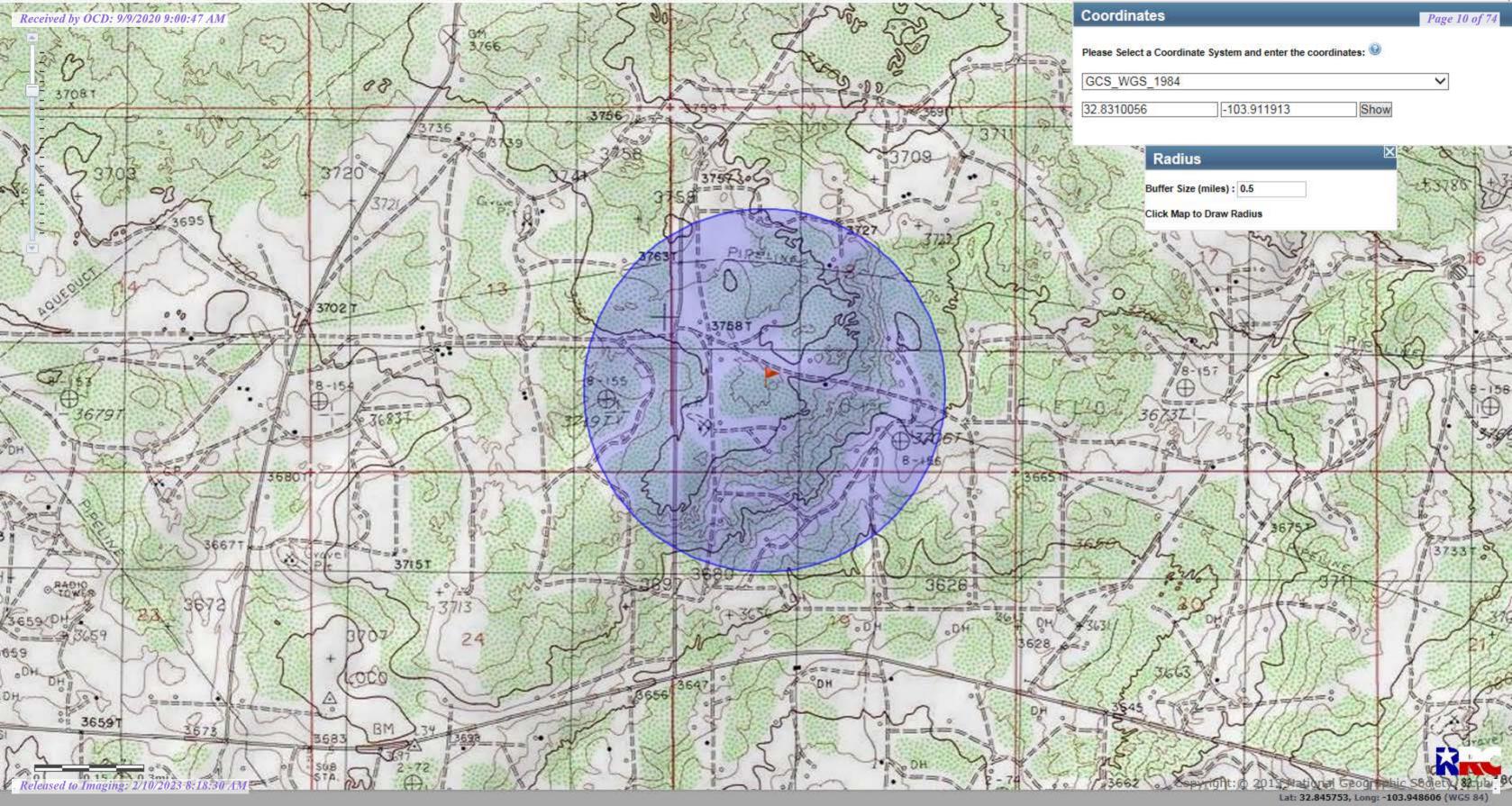
Page 9 of 74

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 ite	ems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.11	1 NMAC
Photographs of the remediated site prior to backfill or photos of 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	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 a	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially neditions 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: larry.baker@apachecorp.com	Telephone: 432-631-6982
OCD Only	
Received by: OCD	Date: 9/09/2020
	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: 2/10/2023
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

Final Wall Samples

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 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

Lab Director/Quality Manager

Received by OCD: 9/9/2020 9:00:47 AM

Analytical Results For:

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

Fax To: (575) 393-2432

T da

10/09/2018

Reported: 10/10/2018

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

Project Location: NOT GIVEN

Sampling Date:

10/09/2018

Sampling Type:

Soil

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

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

Received:

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	10/10/2018	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 (PIC	115	% 69.8-14	2						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AC					
Analyte	Result Reporting Lin		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	88	% 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						

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*=Accredited Analyte

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Colony it . trees .



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:

Cool & Intact

Project Number:

TONY FEDERAL TANK BATTERY

Sampling Condition: Sample Received By:

Tamara Oldaker

Project Location:

NONE GIVEN **NOT GIVEN**

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

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	10/10/2018	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 (PIC	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*	RO >C10-C28* 3150		10/09/2018	ND	216	108	200	7.67	
EXT DRO >C28-C36	613	50.0	10/09/2018	ND					
Surrogate: 1-Chlorooctane	1133	% 41-142	,						

Surrogate: 1-Chlorooctane 151% Surrogate: 1-Chlorooctadecane

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37.6-147

Colog 2 trans



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:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Received by OCD: 9/9/2020 9:00:47 AM

Project Location:

NOT GIVEN

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

Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	10/09/2018	ND	1.94	96.9	2.00	2.63	
<0.050	0.050	10/09/2018	ND	1.83	91.5	2.00	3.13	
<0.050	0.050	10/09/2018	ND	1.82	91.2	2.00	1.59	
<0.150	0.150	10/09/2018	ND	5.49	91.5	6.00	1.96	
<0.300	0.300	10/09/2018	ND					
95.5	69 8-14	2						
mg/	kg	Analyze	d By: AC					
Result Reporting Limit		Analyzed	Method Blank	B5	% Recovery	True Value QC	RPD	Qualifier
624	16.0	10/10/2018	ND	448	112	400	0.00	QM-07
mg/	kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
< 10.0	10.0	10/09/2018	ND	196	97.9	200	2.16	
28* 48.4 10.0		10/09/2018	ND	216	108	200	7.67	
12.2	10.0	10/09/2018	ND					
	<0.050 <0.050 <0.050 <0.150 <0.300 95.55 mg/ Result 624 mg/ Result <10.0	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Surrogate: 1-Chlorooctadecane

104%

37.6-147

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Colog I trans-

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:

BTEX 8021B

10/09/2018

Sampling Date: 10/09/2018

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

ma/ka

Project Location: **NOT GIVEN**

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

BIEY SOSTB	my,	rkg	Allalyze	u 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	d By: AC					
Analyte	Result Reporting Limit		Analyzed	Method Blank	85	% 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	•						
Surrogate: 1-Chlorooctadecane	126	% 37.6-14	7						

Analyzed By: ms

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

10/09/2018

Sampling Date:

10/09/2018

Received by OCD: 9/9/2020 9:00:47 AM

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 **NOT GIVEN**

Project Location:

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

BTEX 8021B	mg,	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% 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	2						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AC					
Analyte	Result Reporting Lim		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	% 41-142	?						
Surrogate: 1-Chlorooctadecane	103	% 37.6-14	7						

Surrogate: 1-Chlorooctadecane

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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 9:00:47 AM

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 @ 5' (H802877-06)

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	10/09/2018	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 0.050		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	98.7	% 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	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	% 41-142	?						
Surrogate: 1-Chlorooctadecane	102	% 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:

10/09/2018

Reported:

10/10/2018

Project Name:

TONY FEDERAL TANK BATTERY

Project Number: Project Location: NONE GIVEN

NOT GIVEN

Sampling Date:

10/09/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Received by OCD: 9/9/2020 9:00:47 AM

Sample Received By: Tamara Oldaker

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

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	10/09/2018	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 0.150		ND	ND 5.49		6.00	1.96	
Total BTEX	<0.300	0.300	10/09/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIE	94.7	% 69.8-14	2						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	10/10/2018	ND	448	112	400	0.00	
TPH 8015M	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	?						
Surrogate: 1-Chlorooctadecane	94.5	% 37.6-14	7						

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

10/09/2018

Sampling Date:

10/09/2018

Reported: Project Name: 10/10/2018 TONY FEDERAL TANK BATTERY Sampling Type:

Soil Cool & Intact

Project Number:

NONE GIVEN

Sampling Condition: Sample Received By:

Tamara Oldaker

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	588.67		2						
Chloride, SM4500CI-B			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	>C28-C36 <10.0		10/09/2018	ND					
Surrogate: 1-Chlorooctane	97.4	% 41-142	?						
Surrogate I Chlamostadesque	05.5	0/ 27611	7						

Surrogate: 1-Chlorooctadecane 95.5 % 37.6-147

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PLEASE NOTE: Labbility and Damagest. Cardinal's labblety and cheric's evolusive re-medy for any claim airsing, whether based in contract or tort, shall be limited to the amount paid by cleent 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 apphicable service. In no event shall Cardinal be labele for incidental or consequential damages, including, wethout familiation, business intemporars, loss of use, or loss of profits incidental or consequential damages, are 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 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

Reported:

10/10/2018

Project Name:

TONY FEDERAL TANK BATTERY

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sampling Date:

10/09/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Received by OCD: 9/9/2020 9:00:47 AM

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

BTEX 8021B	mg/	kg	Analyze	d By: ms	BS				
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 5	% 69.8-14	2						
Chloride, SM4500CI-B	mg/kg		Analyze	d By: AC					
Analyte	Result Reporting Lim		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	% 37.6-14	7						

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 witting and received by Cardinal within thirty (30) days after comp hoable service. In no event shall Cardinal be liable including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiance, affiliates or successors arising out of or related to the performance of the services herefulder by Cardinal, regardless of whether such daim 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 ap-

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
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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 -

Received by OCD: 9/9/2020 9:00:47 AM



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	1100CMC										3//	LL TO	iapiyetê				· ·	ANA	LYS	IS RI	EQUE	ST			
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Phone #:	Fax #:							Ad	dre	ss:															
Project #:	Project #: Project Owner:							City:										1							
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Project Locatio	Project Location: Tony Federa Tonk Battery							Ph	one	#:				1											
Sampler Name:							Fa	x #:					1	7			}								
FOR LAB USE ONLY		Τ.	Т	Е	M	IATR	IX		PR	ESEF	۲V	SAMPL	NG		3				1						
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9	SP 16 8'	G	1	_	<u> </u>	_	<u> </u>			/		10.9-14	2:00 PM	1	1	1		<u> </u>							
PLEASE NOTE: Liability as	d Damages. Cardinal's liability and client's exclusive remedy for					U	1_											<u> </u>							
analyses. All claims include	ig those for negligence and any other cause whatsoever shall be	deeme	rd waiv	red uni	ess med	e in wri	ting and	Tecar	ved by	Cardio	ضو لحو	thin 30 days after	completion of th	a seeliest	de										
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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 13:33.

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 9:00:47 AM

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:

Soil Cool & Intact

Sampling Condition: Sample Received By:

Jodi Henson

Project Number: Project Location: NONE GIVEN **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	95.69	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	Qualifie
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	Qualifie
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: L-Chlomostave	02.20	26 11-112							

Surrogate: 1-Chlorooctane

92.2 %

41-142

Surrogate: 1-Chlorooctadecane

Received by OCD: 9/9/2020 9:00:47 AM

108 %

37.6-147

Cardinal Laboratories *=Accredited Analyte

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Colog istream



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 **NOT GIVEN**

Sampling Date:

Sample Received By:

10/11/2018 Soil

Sampling Type: Sampling Condition:

Cool & Intact

Jodi Henson

BTEX 8021B	mg/k	9	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	95.3 %	69.8-14	2						
Chloride, SM4500Cl-B	mg/k	(g	Analyze	d By: AC					

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					

Surrogate: I-Chlorooctane 92.2 % 41-142 Surrogate: 1-Chlorooctadecane 103 % 37.6-147

*=Accredited Analyte **Cardinal Laboratories**

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Analytical Results For:

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

Fax To:

Received: Reported:

EXT DRO > C28-C36

Received by OCD: 9/9/2020 9:00:47 AM

10/11/2018

10/12/2018

Project Name:

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

Project Location:

NOT GIVEN

Sampling Date: Sampling Type: Sampling Condition: 10/11/2018 Soil

Cool & Intact

Sample Received By:

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	85	% 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	

ND

10/12/2018

Surrogate: 1-Chlorooctane	92.6 %	41-142
Surrogata: L.Chloropotadecane	100 %	37 6.1.17

95.0

10.0

*=Accredited Analyte Cardinal Laboratories

any other cause whatsoever shall be deemed warved unless made in winding and received by Careful within thirty (30) days after completion of the applicable service. In no event shall Cardinal be hable for incidental or consequently including, without limitation, 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 the incident 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.





Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported:

EXT DRO > C28-C36

Received by OCD: 9/9/2020 9:00:47 AM

10/11/2018

10/12/2018

TONY FEDERAL TANK BATTERY

Project Number: Project Location:

Project Name:

NONE GIVEN **NOT GIVEN**

Sampling Date:

10/11/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

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

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	10/12/2018	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 (PIE	95.4	% 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	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	

ND

10/12/2018

Surrogate: 1-Chlorooctane 91.5% 41-142 Surrogate: 1-Chlorooctadecane 90.1% 37-6-147

14.7

10.0

Cardinal Laboratories *=Accredited Analyte

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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 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: Liabbity and Damages. Cardnal's liabbity and client's exclusive remedy for any dainy anising, where based in contract or text, shall be limited to the amount paid by chert for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed warved 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 incidencial or consequential damages, nechanish, without limitation, business interruptions, loss of use, or loss of profits incurred by clerk, its subsidiances, affiliates or successors arong 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 resource or otherwise. Results relate only to the samples debote. This report shall not be reproduced except in full with written approval of Cardinal Laboratoms.

College thomas

Received by OCD: 9/9/2020 9:00:47 AM



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

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FOR LAB USE ONLY		2.00	d .		MA	TRIX		_	ESEI	RV.	SAMP	ING	\dashv		Z.										
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Relinquished By:	0 10/11/15	Received By:	Phone Result: Y	es D No	Add Phone #:	
(Vac Com Ballet)	Time:	Bruce Baker	Fax Result: Y	es 🗆 No	Add'l Fax #:	
Relinquished By:	Date:	Received By:	[mail	D.	· la	
Poruce Parly	10/11/16 Time: 1-3	May Menson	1	Kus	» <i>V</i> (
Delivered By: (Circle One)	Гооры	Sample Condition CHECKER B	4			
Sampler - UPS - Bus - Other 3.4	16/#9	7 Cool Intact (Mittata)	7			



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

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: 10/11/2018

10/12/2018

TONY FEDERAL TANK BATTERY

Project Number: Project Location:

Project Name:

NONE GIVEN **NOT GIVEN**

Sampling Date: Sampling Type:

Sampling Condition: Sample Received By: Soil Cool & Intact

10/11/2018

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	Analyzed 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: I-Chlorooctadecane	96.4	% 37 6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Color Lations

Received by OCD: 9/9/2020 9:00:47 AM

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 2 @ 6" (H802910-02)

BTEX 8021B	mg/	/kg	Analyze	d Bγ: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8 S	% 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 8TEX	<0.300	0.300	10/11/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.6	% 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	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	Qua fier
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	% 37.6-14	7						

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Received by OCD: 9/9/2020 9:00:47 AM

*=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

Analyzed By: ms

Received: Reported:

BTEX 8021B

10/11/2018

10/12/2018

Sampling Date:

10/11/2018

Project Name:

TONY FEDERAL TANK BATTERY

Sampling Type: Sampling Condition: Soil Cool & Intact

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

ma/ka

Sample Received By:

Jodi Henson

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

DIEV SASTR	my/	K.	Allalyze	d by. III3					
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			<u> </u>		
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	ed 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							
Surrogate: 1-Chlorooctadecane	102	% 37.6-14	7						

Cardinal Laboratories

Received by OCD: 9/9/2020 9:00:47 AM

*=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, SM4500Cl-8	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	te: 1-Chlorooctadecane 90.7 % 37.6-1-		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

100

Received: 10/11/2018 Reported: 10/12/2018

Project Name: TONY FEDERAL TANK BATTERY

Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/11/2018

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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

BTEX 8021B	mg,	/kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	88	% 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: Reported: 10/11/2018

10/12/2018

Project Name: Project Number: TONY FEDERAL TANK BATTERY

NONE GIVEN

Project Location:

Sampling Date:

Sampling Type:

Sample Received By:

Sampling Condition:

Soil Cool & Intact

Jodi Henson

10/11/2018

NOT GIVEN

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

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	96.5	% 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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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 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 9:00:47 AM

*=Accredited Analyte

PLEASE NOTE: Usability and Damages. Cardinal's bability 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 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, methods invitable, without similation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successions among out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims to 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 Laborations.

Colog it time

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 client's eviclusive remedy for any claim assing, whether based in contract or tort, shall be limited to the amount paid by client for analysiss. 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 incidential or consequential damages, including, without limitation, business interruptions, limits of use, or loss of profits incurred by chert, its substances affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims to be above stated reasons or otherwise. Rejutis related in the samples demonstrated.

Colog i tresse



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				3,035			ANA	LYSI	S RI	EQU	EST		
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FOR LAB USE ONLY		1.			M	ATR	HX	Ī	PR	SER		LING	1		B	~								
Lab I.D.	Sample I.D.	G)RAB OR (C) O	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL.	SLUDGE	DTHER	CID/BASE	(ICE) COOL	DATE	TIME	2	5	EXT	BIE								
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PLEASE NOTE: Unbilly and Champes. Condend's incidity and clear's exclusive namedy for any clasin enting whether based in centract or lost, shall be finded to the amount paid by the clear for the analyses. All clustes including those for negligence and any other cames whatever shall be destend waved unless reads in unling and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be listle for incidental or consequented damages, including willout livitation, business interruptions, less of use, or loss of profile incorred by cleart, its subsidiarses,

Relinquished By:	Date: Received By:	Phone Result: Yes No Add'l Phone #:
11 11 11	The D O . I	Fax Result: ☐ Yes ☐ No Add'I Fax #: REMARKS:
Relinquished By:	Date: 10/11/18 Regelved By:	Email Results
Bruce Baker	Time: 30pm GOdi Stenson	- 1
Delivered By: (Circle One)	Sample Condition CHECKED BY:	Rush
Sampler - UPS - Bus - Other: 3	40 #97 Cool Intest	





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

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: Soil

Sampling Condition: Sample Received By: Cool & Intact

10/15/2018

Tamara Oldaker

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

Toluene* <0.050 0.050 10/16/2018 ND 2.14 107 2.00 0.735 Ethylbenzene*	BTEX 8021B	mg	/kg	Analyze	d By: ms					
Toluene*	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
## Description of the image and image and image are supported by the image are supported by the image are supported by the image are supported by the image are	Benzene*	<0.050	0.050	10/16/2018	ND	2.27	114	2.00	0.142	
Total Xylenes* <0.150 0.150 10/16/2018 ND 6.33 106 6.00 0.151	Toluene*	<0.050	0.050	10/16/2018	ND	2.14	107	2.00	0.735	
Total BTEX Col.300 D.300	Ethylbenzene*	0.126	0.050	10/16/2018	ND	2.11	106	2.00	0.142	
Surrogate: 4-Bromofluorobenzene (PIE) 109 % by section of the properties of the	Total Xylenes*	<0.150	0.150	10/16/2018	ND	6.33	106	6.00	0.151	
Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Reporting Limit Analyzed Method Blank BS Recovery True Value QC RPD RPD Chloride 2680 16.0 10/16/2018 ND 432 108 400 3.64 TPH 8015M mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS Recovery True Value QC RPD GRO C6-C10* <10.0 10.0 10/16/2018 ND 200 100 200 3.41	Total BTEX	<0.300	0.300	10/16/2018	ND					
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Chloride 2680 16.0 10/16/2018 ND 432 108 400 3.64 TPH 8015M mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 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: 4-Bromofluorobenzene (PIE	109	% 69.8-14	2						
Chloride 2680 16.0 10/16/2018 ND 432 108 400 3.64 TPH 8015M mg/kg Analyzed By: MS MS Recovery True Value QC RPD Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD GRO C6-C10* <10.0	Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
TPH 8015M mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD GRO C6-C10* <10.0 10.0 10/16/2018 ND 200 100 200 3.41	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 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	Chloride	2680	16.0	10/16/2018	ND	432	108	400	3.64	
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	TPH 8015M	mg	/kg	Analyze	d By: MS					
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	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
EXT DRO >C28-C36 89.0 10.0 10/16/2018 ND Surrogate: 1-Chlorooctane 89.2 % 41-142	GRO C6-C10*	<10.0	10.0	10/16/2018	ND	200	100	200	3.41	
Surrogate: 1-Chlorooctane 89.2 % 41-142	DRO >C10-C28*	405	10.0	10/16/2018	ND	192	96.0	200	1.32	
12 Mar 1 May	EXT DRO >C28-C36	89.0	10.0	10/16/2018	ND					
Surrogate 1-Chlorooctadecane 103 % 37.6-147	Surrogate: 1-Chlorooctane	89.2	% 41-142	?						
	Surrogate 1-Chlorooctadecane	103	% 37.6-14	7						

*=Accredited Analyte Cardinal Laboratories

PLEASE MOTE: Liability and Damages. Cardinal's liability and diletts e-clusive remedy for any daim ansing, 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 whatsoever shall be deemed waived 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 incidental or consequential damages, methods limitation, business interrupbons, loss of use, or loss of profits incurred by clerit, its subsideanes, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims shaded 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 fills with winters approval of Cardinal Laboratomise.

Colleg i trens



Analytical Results For:

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

Fax To: (575) 393-2432

Received:

10/15/2018

Sampling Date:

10/15/2018

Reported:

10/16/2018

Sampling Type:

Soil

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

Sampling Condition:

Cool & Intact

Project Location:

NOT GIVEN

Sample Received By:

Tamara Oldaker

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	1						
Surrogate: 1-Chlorooctadecane	104	% 37.6-14	7						

*=Accredited Analyte Cardinal Laboratories

PLEASE NOTE: Liability and Damages. Cardinal's sability and client's exclusive remedy for any client ansurg, whether based in contract or tort, shall be limited to the amount paid by client for analyses. any other Cause whissoerer shall be deemed waved unless made in whom and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall be deemed waved unless made in whom and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall be facinal be lable for inodertall completion of the applicable service. In no event shall be added to make the completion of the applicable service. In one event shall be added to make the completion of the applicable service. In one event shall be added to make the completion of the applicable service. In one event shall be added to make the completion of the applicable service. In one event shall be added to make the completion of the applicable service. In one event shall be added to make the completion of the applicable service. In one event shall be added to make the completion of the applicable service. In one event shall be added to make the completion of the applicable service. In one event shall be added to make the completion of the applicable service. In one event shall be added to make the completion of the applicable service. In one event shall be added to make the completion of the applicable service. In one event shall be added to make the completion of the applicable service. In one event shall be added to the applicable service. In one event shall be added to the applicable service. In one event shall be added to the applicable service. In one event shall be added to the applicable service. In one event shall be added to the applicable service. In one event shall be added to the applicable service. In one event shall be added to the applicable service. In one event shall be added to the applicable service. In one event shall be added to the applicable service. In one event shall be added to the applicable service. In one event shall be added to the applicable service the applicable service the applicable service the applicable service the applicable service the applicable 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

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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

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Cologi time



ADuch:

Company Name:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

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

Project Manager:	Bruce but	8:20					/	P.O.	#:									İ						
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City: 6/0/01/	5	State:)	įΖip	ج: د	66	40	1	\ttn:	:													1		
Phone #:		Fax #:					/	Addr	ess	:														
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Project Name:								State):		Zip:													
Project Location:	Torrestrat	Fanle	P	کرے	1-2	* . F	F	hor	ne #:															
Sampler Name:	2000	inte						ax i						1										
FOR LAB USE ONLY			2			MATRI	X	P	RESI	RV.	SAMPL	JNG]	2	-									
Lab I.D.	Sample I.	D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	SLUDGE	OTHER:	ICE) COOL	OTHER:	DATE	TIME	01	(x/ +	RIE								:	
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analyses. All claims including the service. In no event shall Cards affiliates or successors arising o	Parmages. Cardinal's Eability and clier hose for negligence and any other ca nel be Eable for incidental or conseq out of or related to the performence o	ause whatsoever shall be o wental dameges, including of services becounder by C	withou	d walve et limite Lregar	ed unless ition, busin diess of w	mede in writ ness Internuj hether such	ing and n tions, los	scelved s of us	l by Car e. or los	rdinal v as of p	within 30 days aft rollts incurred by	er completion of t client, its subsidir	he applicat ries.		1		<u> </u>	<u> </u>						
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BILL TO



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 www.tceq.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.

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: 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)

BTEX 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 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.

Celeg D. Freene



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 S WALL 1' (H803405-02)

Result	Reporting Limit							
	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.025	0.025	11/28/2018	ND	2.12	106	2.00	0.901	
<0.025	0.025	11/28/2018	ND	2.31	116	2.00	2.16	
<0.025	0.025	11/28/2018	ND	2.19	110	2.00	1.36	
<0.075	0.075	11/28/2018	ND	7.42	124	6.00	2.17	
<0.150	0.150	11/28/2018	ND					
106	% 90.4-11	1						
97.1	% 85.3-11	4						
79.6	% 80.1-12	1						
mg,	/kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
3160	16.0	11/28/2018	ND	400	100	400	0.00	
mg,	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	11/27/2018	ND	200	100	200	13.2	
11.6	10.0	11/27/2018	ND	221	111	200	10.5	
<10.0	10.0	11/27/2018	ND					
81.7	% 41-142	?						
88.7	% 37.6-14	7						
_	<0.025 <0.025 <0.075 <0.150 106 9 97.1 79.6 mg/ Result 3160 mg/ Result <10.0 11.6 <10.0	<0.025 <0.025 <0.025 <0.075 <0.150 0.150 106 % 90.4-11 97.1 % 85.3-11 79.6 % 80.1-12 mg/kg Result Reporting Limit 3160 16.0 mg/kg Result Reporting Limit <10.0 10.0 11.6 10.0 <10.0 10.0 41-142	 <0.025	<0.025	<0.025	<0.025	<0.025	<0.025

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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: SP6 W WALL 1' (H803405-03)

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	104	% 90.4-11	1						
Surrogate: Toluene-d8	103	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	85.6	85.6 % 80.1-121							
Chloride, SM4500Cl-B	mg,	mg/kg		d 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	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*	<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

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 E WALL 1' (H803405-04)

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	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	d 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	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*	<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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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 N WALL 1' (H803405-05)

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	108% 90.4-111							
Surrogate: Toluene-d8	99.7	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	81.1	81.1 % 80.1-121							
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			ND					
Surrogate: 1-Chlorooctane	87.7	% 41-142	!						
Surrogate: 1-Chlorooctadecane	95.4	% 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 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	109 % 90.4-111							
Surrogate: Toluene-d8	96.9	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene			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	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			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			1						
Surrogate: Toluene-d8	82.8 % 85.3-1		4						
Surrogate: 4-Bromofluorobenzene	V		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: 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 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 9	% 90.4-11	1						
Surrogate: Toluene-d8	101	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	obenzene 120 % 80.1-1		1						
Chloride, SM4500CI-B	V		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			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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Celey D. Keine

Delivered By: (Circle One)

Sampler - UPS - Bus - Other: 4.22



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Released to Imaging: 2/10/2023 8:18:30 AM

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

(57	7,5) 393-2326 FAX (575) 393-24	76								-																
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Project Manager:	Bruce Beleer							P.C). #:																	
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FOR LAB USE ONLY	_				MA	TRIX			PRES	ERV.	SAMPLI	NG	-													
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analyses. All claims including the	hose for negligence and any other cause whatsoever shall	be deeme	ed waive	ed unles	s made siness ir	n writin terrupi	ng and tions, I	recei	ived by Ca f use, or la	ardinal o	within 30 days after profits incurred by	er completion of client, its subsidi	the app iaries,	dicable												
affiliates or successors arising of	out of or related to the performance of services hereunder	by Cardina	al, regar	dless o	whether	such	claim i	s bas	ed upon a	ny of th	ne above stated re	Phone Re	ise. esult:	: 0	Yes	s 🗆	No	Add'	l Pho	ne #:						
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Relinquished By:	Date:	R	cei	ved I	Зу:							Ç	* Y	٨٤) (R	ىي	ult	75							

CHECKED BY:

Sample Condition

Cool Intact
Yes Yes

+ Cardinal cannot accent workel changes Please fav written changes to (ETE) 303_2336



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 www.tceq.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)

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						

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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, SM4500CI-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						

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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: 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	ogate: 4-Bromofluorobenzene (PID 104 %		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. Keens



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 Sample Received By: Tamara Oldaker Project Number: NONE GIVEN

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	te: 4-Bromofluorobenzene (PID 102 % 73.3		9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result			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	95.1 % 41-142							
Surrogate: 1-Chlorooctadecane	99.4	% 37.6-14	7						

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Celey D. Keene



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

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Released to Imaging: 2/10/2023 8:18:30 AM

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

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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 www.tceq.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.

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

Project Location: NOT GIVEN

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

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	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	
nylbenzene* <0.050 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	Analyze	d 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 9	% 37.6-14	7						

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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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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Project Manager: Bruce Buller								P.O. #:						T	T			T	T	T	T	T		T	T	\Box
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Delivered By:	: (Circle One)	1		S	ample	e Coi	nditi	on		СН	СК	D BY:														
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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' < Maria.Pruett@state.nm.us; 'stucker@blm.gov' < stucker@blm.gov>

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

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

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Phone: (575) 393-6161 Fax: (575) 393-0720

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

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

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

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

CONDITIONS

Action 10084

CONDITIONS

Operator:	OGRID:
APACHE CORPORATION	873
303 Veterans Airpark Ln	Action Number:
Midland, TX 79705	10084
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Cre	eated By	Condition	Condition Date
а	maxwell	None	2/10/2023