303 Veterans Airpark Lane Midland, TX 79705

Remediation Plan

November 23, 2020

Re: Werta Federal CTB API# 30-025-27696 Case#: 1RP-5375

Background:

On February 6, 2019 a release occurred due to livestock breached the battery fence and rubbed up on the oil circulating pump bleed off valve causing it to open. An initial C-141 was submitted and approved by NMOCD on February 21, 2019. The Werta Federal CTB (GPS: 32.61018, -103.11777) is located south of Hobbs, NM in unit letter O section 35 township 19S range 38E. A remediation plan was submitted and denied on December 13, 2019. On January 15, 2020 a soil bore was conducted on the west side of the lease pad and advanced to a depth of 55 feet. The bore hole was left open for more than 48 hours and utilizing a water meter which indicated no presence of water to a depth of 55 feet.

On February 15, 2019 samples were collected utilizing a hand shovel to a depth of one foot. All samples were collected and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. On April 16, 2019 further delineation was conducted utilizing a backhoe and hand auger to various depths of 4 to 5.7 feet. All samples collected were submitted to a commercial laboratory for analysis of TPH, and BTEX. Hard rock was encountered at 5 feet a SP 1 and the backhoe could only achieve a depth of 5.7 feet.

On January 15, 2020 a soil bore was conducted in five foot intervals at SP 1 from 10' to 25'. All samples collected were submitted to a commercial laboratory for analysis of TPH and BTEX. All samples were below table one standards for TPH and BTEX. Horizontal composite samples were collected on March 9, 2020 not to exceed 200 square feet and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX.

Remediation Plan:

Apache Corporation proposes that the area around SP 1 be excavated to a depth of 5 feet. The area outside of SP1 be excavated to a depth of 6 inches to 1 foot. All excavated material (145 yards) will be hauled to an NMOCD approved facility. After the excavation is complete final 5-point bottom and wall composite samples will be collected not to exceed 200 square feet and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Once

Received by OCD: 11/23/2020 12:29:21 PM analytical data confirms that the excavation meet table 1 standards for releases greater than 50 feet to groundwater the excavation will be backfilled with clean imported caliche. The remediation will be completed within 180 days of OCD approval of the plan.

Submitted by;

Senior Environmental Technician

larry.baker@apachecorp.com

Cell# 432-631-6982

Bruce Baker

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

State of New Mexico Energy Minerals and Natural Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAB1905229182
District RP	1RP-5375
Facility ID	
Application ID	pAB1905228355

Release Notification

Responsible Party						
Responsible Party Apache Corporation				OGRID	873	
Contact Name Bruce Baker			1	Contact Tel	lephone 432-631-6982	
Contact emai	l lar	ry.baker@apacl	necorp.com		Incident # ((assigned b) OCD) NAB1905229182
Contact maili		2350 W. Marlai		s, NM 8	8240	
Location of Release Source						
Latitude 32.61018 Longitude -103.11777						
			(NAD 83 in dec			al places)
Site Name W	erta Fed	eral CTB			Site Type	Battery
Date Release						licable) 30-025-27696
Unit Letter	Section	Township	Range	-	Count	<u>ty</u>
0	35	198	38E		Lea	a
Surface Owner: State Federal Tribal Private (Name Apache Corporation						
Nature and Volume of Release						
Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)						
☑ Crude Oil Volume Released (bbls) 130 barrels			Volume Recovered (bbls) 120 barrels			
Produced Water Volume Released (bbls)			Volume Recovered (bbls)			
		Is the concentration of dissolved chloride in the produced water >10,000 mg/l?		in the	Yes No	
Condensate Volume Released (bbls)			Volume Recovered (bbls)			
Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units)			Volume/Weight Recovered (provide units)			
Cause of Release Livestock breached battery fence and rubbed up on the oil circulating pump bleed off valve opening it.						

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State of New Mexico Oil Conservation Division

Incident ID	NAB1905229182
District RP	1RP-5375
Facility ID	
Application ID	pAB1905228355

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Was this a major	If YES, for what reason(s) does the respo				
release as defined by 19.15.29.7(A) NMAC?	Oil release was greater than 25	barrels			
☑ Yes ☐ No					
Bruce Baker notified	If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Bruce Baker notified Jim Griswold and Christina Hernandez of NMOCD and Shelly Tucker (BLM) via email on 2/6/2019 at 2:59 p.m.				
	Initial R	esponse			
The responsible	party must undertake the following actions immediate	ly unless they could create a safety hazard that would result in injury			
☐ The source of the rele	ease has been stopped.				
☐ The impacted area ha	is been secured to protect human health and	the environment.			
Released materials ha	ave been contained via the use of berms or	likes, absorbent pads, or other containment devices.			
All free liquids and re	ecoverable materials have been removed an	d managed appropriately.			
If all the actions describe	d above have <u>not</u> been undertaken, explain	why:			
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.					
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.					
Printed Name:	ce Baker	Title: Environmental Tech Se			
Signature: Bruce	Baher	Date: 2-19-19			
email: larry. ba	Ker @ apachecorp.com	Telephone: 432 - 631 - 6982			
OCD Only					
Received by:	atamente	Date: 2/21/2019			

State of New Mexico Oil Conservation Division

Incident ID	
District RP	_
Facility ID	
Application ID	

Released to Imaging: 4/9/2021 2:31:17 PM

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?	61 (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 Yo		
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☑ No		
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No		
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☑ No		
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.			
Characterization Report Checklist: Each of the following items must be included in the report.			

The state of the s
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. 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
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
✓ Topographic/Aerial maps
✓ Laboratory data including chain of custody

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

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

regulations all operators are required to report and/or file certain release noti public health or the environment. The acceptance of a C-141 report by the C failed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	fications and perform corrective actions for releases which may endanger DCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In
Printed Name: Bruce Baker	Title: Environmental Tech. SR.
Signature: Bruce Baher	Date: 5-7-19
email: larry baker @apachecorp.com	Telephone: 432-631-6982
OCD Only	
Received by:	Date:

Received by OCD: 11/23/2020 12:29:21 PM Form C-141 Page 5

State of New Mexico	Ir
Oil Conservation Division	D

	Page 7 of 57
Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

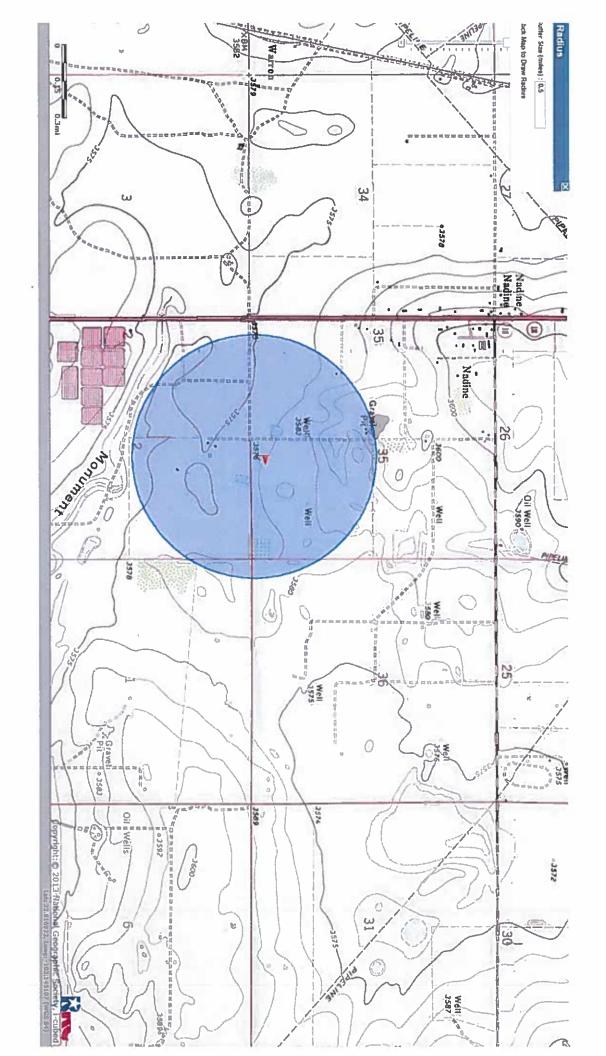
Remediation Plan Checklist: Each of the following items must be included in the plan.			
 ☑ Detailed description of proposed remediation technique ☑ Scaled sitemap with GPS coordinates showing delineation points ☑ Estimated volume of material to be remediated ☑ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC ☑ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 			
Defound Degreets Only Each of the following items must be seen	firmed as part of any request for deformal of remediation		
Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. ☐ Extents of contamination must be fully delineated.			
Contamination does not cause an imminent risk to human health	the environment or groundwater		
Contamination does not cause an infinite it risk to numan hearth	t, the environment, or groundwater.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.			
Printed Name: Larry Baker	Title: Environmental Tech SR.		
Printed Name: Larry Baker Signature: Larry Baker	Date: 11/23/2020		
email: larry.baker@apachecorp.com	Telephone: 432-631-6982		
OCD Only			
Received by:	Date:		
☐ Approved ☐ Approved with Attached Conditions of	Approval		
Signature:	Date:		



Figure 2 - Aerial Map

				BORING	RECORD											
		Start: 13	3:35	NO	90		ΡI	D F	REA	DIN	G	S	SAME	PLE		REMARKS
GEOLOGIC	DEPTH	Finish: 1	4:50	DESCRIPTION USCS	SRAPHIC LOG	Р	PM	X.	1			- 0	PID READING	ERY	DEPTH	BACKGROUND PID READING
UNIT		DES	CRIPTION LITHOLOGIC	SC	XP	2 4	1 6 	8	10 12	14	16 1	- MARIN	REA	000		SOIL :PPM
	0				5		Ц	\perp				Z	문	RE		SOIL :PPM
			'R, 5/4, Reddish Brown	, ML											1	_
		Well Sor	tea , 2.5YR, 5/6, Red, Well	CL]
	5 —	Sorted	, 2.51 K, 5/0, Neu, Well		विवेदित								-		-	
			'R, 6/6, Light Red,	1											5]
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			ded Clast Inclusions,	ML								-	+	-		
	'0 _		in Diameter												10]
			Clast Inclusions		其包置包置											
	15	L	in Diameter	/											15	\exists
	_		2.5YR, 8/2, Pinkish													_
	_	White]
	20														20	
	_			Caliche												
															25	_
	25—				H]
	_														30	
	30—															
		Silt, 2.5Y	R, 8/2, Pinkish White,		स्वर्धाः										35	
	35—		ely Sorted w/		FRFRA											_
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	40—]
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	_	01 0													15	
	45	, , ,	Sand, 7.5YR, 6/4, Light /ery Fine, Well Sorted,													
	_		lar Caliche Inclusions												50	
	_		n Diameter	sc]
	50			30											_	
	_														55	
	=															
	55—	Т	D After 48 Hours =												60	$ \qquad $
	_		55.38 ft bgs.													
	_	1	No Water Present													
	NE CONTINI	JOUS AUGER S	SAMPLER WATER TA	RI E / TIME	OE BORING	J	ш ЭВ І	NU	MBI	LLL ER	Ap	ach	ne C	or	p./	20-0101-02
		ENETRATION 1		ATORY TEST LOCATION HOLE DIAMETER :					2"							
UN	UNDISTURBED SAMPLE + PENETROM					LOCATION : Werta										
WATER TABLE (24 HRS) NR NO RECOVER			•		LAI GEOLOGIST : R. Owen											
IDRIII DATE				NUMBER :											borough Drilling	
Agrson & O1/15/2020 Ssociates, Inc. Environmental Consultants			6	B-1	D	RILI	LIN	IG N	/ET	HOI) :_	Air I	Rota	ary		

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Werta Federal CTB

			SP 1 (GPS: 32.6	10183 -103.	117822)			
Depth	CL-	Benzene	Toluene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO
0	160	30.2	188	153	365	737	9850	44600	6620
1'	16	26.4	180	121	239	566	6800	15800	2210
3'		< 0.050	0.466	1.61	2.89	4.97	40.7	477	165
4'		< 0.050	<0.050	1.36	1.6	2.96	115	1560	452
5'		0.155	1.45	3.36	8.64	13.6	344	5400	1490
5' 7"		< 0.050	0.187	0.376	1.04	1.6	32.7	1450	458
10'		< 0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
15'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
20'		< 0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
25'		< 0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
			SP 2 (GPS: 326	10027 -103.	117863)			
Depth	CL-	Benzene	Toluene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO
0	80	21.6	199	185	384	790	10500	33600	5400
1'	16	97.4	397	210	393	1100	14500	25900	3620
			SP 3 (GPS: 32.6	09925 -103.	117821)			
Depth	CL-	Benzene	Toluene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO
0	208	19.6	129	102	231	481	9750	50300	8700
1'	48	58.2	190	101	204	553	8330	16800	2650
2'		0.099	2.44	3.72	10.9	17.2	167	850	177
3'		0.086	1.29	2.5	6.39	10.3	135	1190	267
4'		0.381	4.65	5.15	12.4	22.6	268	2110	373
			SP 4 (GPS: 32.6	10084 -103.	117776)			
Depth	CL-	Benzene	Toluene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO
0	3440	77.3	296	172	357	902	16300	43700	6090
1'	1310	9.81	46.8	28.7	59.9	145	974	3000	314
2'		0.082	0.556	0.949	3.17	4.76	53.6	249	45.8
3'		<0.050	<0.050	<0.050	<0.150	<0.300	<10	54.6	10.9
4'		<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10.0	<10.0

	Horizontal Surface Samples								
Sample ID	CL-	Benzene	Toluene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO
HC1	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10.0	<10.0
HC2	96	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10.0	<10.0
HC3	32	<0.050	< 0.050	<0.050	<0.150	<0.300	<10	<10.0	<10.0
HC4	144	<0.050	< 0.050	< 0.050	<0.150	< 0.300	<10	<10.0	<10.0



February 21, 2019

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WERTA FED BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/15/19 15:25.

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)

Accreditation applies to public drinking water matrices.

Celegi 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: 11/23/2020 12:29:21 PM

Lab Director/Quality Manager



Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

02/15/2019

Sampling Date:

02/15/2019

Reported:

02/21/2019

Sampling Type:

Soil

Project Name:

WERTA FED BATTERY

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

NONE GIVEN

Sample ID: SP 1 @ SURFACE (H900623-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	30.2	1.00	02/20/2019	ND	2.16	108	2.00	0.635	
Toluene*	188	1.00	02/20/2019	ND	2.20	110	2.00	1.11	
Ethylbenzene*	153	1.00	02/20/2019	ND	2.12	106	2.00	1.32	
Total Xylenes*	365	3.00	02/20/2019	ND	6.03	101	6.00	1.76	
Total BTEX	737	6.00	02/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	165	% 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	160	16.0	02/19/2019	ND	432	108	400	3.77	
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*	9850	100	02/18/2019	ND	177	88.7	200	11.3	
DRO >C10-C28*	44600	100	02/18/2019	ND	182	91.1	200	9.86	
EXT DRO >C28-C36	6620	100	02/18/2019	ND					
Surrogate: 1-Chlorooctane	471	% 41-142	?				· · · · · · · · · · · · · · · · · · ·		

Received by OCD: 11/23/2020 12:29:21 PM

Surrogate: 1-Chlorooctadecane

1040 %

37.6-147

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liabelry and Damages. Cardinal's liabelity and chem's evolutive remedy for any cleim arraing, whether based in contract or tont, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other classe whilesperver shall be deemed waved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of use, or loss of profits incurred by clean, its aubsidianes, affiliates or auccessors arising out of or related to the performance of the services hereunder by Cardinal, inglandless of whether such

Charle time

Fax To:

(575) 393-2432

Received:

02/15/2019

CARDINAL Laboratories

Reported:

02/21/2019

Project Name: Project Number: **WERTA FED BATTERY**

Project Location:

NONE GIVEN NONE GIVEN

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: 02/15/2019

Soil Cool & Intact

Tamara Oldaker

Sample ID: SP 1 @ 1' (H900623-02)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	26.4	1.00	02/20/2019	ND	2.16	108	2.00	0.635	
Toluene*	180	1.00	02/20/2019	ND	2.20	110	2.00	1.11	
Ethylbenzene*	121	1.00	02/20/2019	ND	2.12	106	2.00	1.32	
Total Xylenes*	239	3.00	02/20/2019	ND	6.03	101	6.00	1.76	
Total BTEX	566	6.00	02/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	155	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/19/2019	ND	432	108	400	3.77	
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*	6800	100	02/18/2019	ND	177	88.7	200	11.3	
DRO >C10-C28*	15800	100	02/18/2019	ND	182	91.1	200	9.86	
EXT DRO >C28-C36	2210	100	02/18/2019	ND					
Surrogate: 1-Chlorooctane	252	% 41-14:	?						
Surrogate: I-Chlorooctadecane	404	% 37.6-14	17						

*=Accredited Analyte Cardinal Laboratories

PLEASE NOTE: Liability and Damages. Cardinal's Rability and chemts endurne remedy for any claim arrang, whether based in contract or tont, shall be lented to the amount paid by clean for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed weved unless made as wenturn and received by Cerdinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be hable for including, without limitation, business interruptions, loss of use, or loss of use, or loss of profits incurred by client, its autochance, difflates or successors aroung 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 nations or otherwise. Results relate only to the samples identified above. This report shall not be reproduced e-copts in full with written approval of Cardinal Laboristoners.

Cologication --

Released to Imaging: 4/9/2021 2:31:17 PM

Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 02/15/2019

02/21/2019

WERTA FED BATTERY

Project Name: Project Number:

NONE GIVEN NONE GIVEN Project Location:

CARDINAL Laboratories

Sampling Date:

02/15/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 2 @ SURFACE (H900623-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	21.6	2.00	02/20/2019	ND	2.16	108	2.00	0.635	
Toluene*	199	2.00	02/20/2019	ND	2.20	110	2.00	1.11	
Ethylbenzene*	185	2,00	02/20/2019	ND	2.12	106	2.00	1.32	
Total Xylenes*	384	6.00	02/20/2019	ND	6.03	101	6.00	1.76	
Total BTEX	790	12.0	02/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	154	% 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	80.0	16.0	02/19/2019	ND	432	108	400	3.77	
TPH 8015M	mg,	^r kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	10500	100	02/18/2019	ND	177	88.7	200	11.3	
DRO >C10-C28*	33600	100	02/18/2019	ND	182	91.1	200	9.86	
EXT DRO >C28-C36	5400	100	02/18/2019	ND					
Surrogate: 1-Chlorooctane	423	% 41-142	2						
Surrogate: 1-Chlorooctadecane	777	% 37.6-14	7						

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any other Cause whatsoever shall be deemed wewed unless made in writing and received by Cardinal within thing [30] days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequencial damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its authority such

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

02/15/2019

Reported:

02/21/2019

Project Name: Project Number: WERTA FED BATTERY

Project Location:

NONE GIVEN

Sampling Date:

02/15/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SP 2 @ 1' (H900623-04)

BTEX 8021B	mg/kg		Analyzed By: MS						5-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	97.4	2.00	02/20/2019	ND	2.16	108	2.00	0.635		
Toluene*	397	2.00	02/20/2019	ND	2.20	110	2.00	1.11		
Ethylbenzene*	210	2.00	02/20/2019	ND	2.12	106	2.00	1.32		
Total Xylenes*	393	6.00	02/20/2019	ND	6.03	101	6.00	1.76		
Total BTEX	1100	12.0	02/20/2019	ND						
Surrogate: 4-Bromofluorobenzene (PIL	146	% 73 3-12	9							
Chloride, SM4S00CI-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	02/19/2019	ND	432	108	400	3.77		
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*	14500	100	02/18/2019	ND	177	88.7	200	11.3		
DRO >C10-C28*	25900	100	02/18/2019	ND	182	91.1	200	9.86		
EXT DRO >C28-C36	3620	100	02/18/2019	ND						
Surrogate: 1-Chlorooctane	368	% 41-142	?		William M					
Surrogate: 1-Chlorooctadecane	612	% 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: 02/15/2019

02/21/2019

Project Name: Project Number: WERTA FED BATTERY

Project Location:

NONE GIVEN

Sampling Date:

ipling bate:

Sampling Type:

Sampling Condition: Sample Received By: 02/15/2019

Soil Cool & Intact

Tamara Oldaker

Sample ID: SP 3 @ SURFACE (H900623-05)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	19.6	1.00	02/19/2019	ND	1.92	96.0	2.00	4.30	
Toluene*	129	1.00	02/19/2019	ND	1.95	97.3	2.00	3.96	QM-07
Ethylbenzene*	102	1.00	02/19/2019	ND	1.97	98.7	2.00	3.53	QM-07
Total Xylenes*	231	3,00	02/19/2019	ND	5.78	96.3	6.00	3,39	QM-07
Total BTEX	481	6.00	02/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	121	% 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	208	16.0	02/19/2019	ND	432	108	400	3.77	
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*	9750	100	02/18/2019	ND	177	88.7	200	11.3	
DRO >C10-C28*	50300	100	02/18/2019	ND	182	91.1	200	9.86	
EXT DRO >C28-C36	8700	100	02/18/2019	ND					
Surrogate: 1-Chlorooctane	111	% 41-14:	?						

Surrogate: 1-Chloroociadecane

1230 %

37.6-147

Cardinal Laboratories

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 02/15/2019

02/21/2019

U2,

Project Name: Project Number: WERTA FED BATTERY

Project Location:

NONE GIVEN

Sampling Date:

Sampling Type:

Sample Received By:

pling Type:

Sampling Condition:

Cool & Intact Tamara Oldaker

02/15/2019

Soil.

Sample ID: SP 3 @ 1' (H900623-06)

BTEX 8021B	mg,	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	58.2	1.00	02/20/2019	МD	1.92	96.0	2.00	4.30	
Toluene*	190	1.00	02/20/2019	ND	1.95	97.3	2.00	3.96	
Ethylbenzene*	101	1.00	02/20/2019	ND	1.97	98.7	2.00	3.53	
Total Xylenes*	204	3.00	02/20/2019	ND	5.78	96.3	6.00	3.39	
Total BTEX	553	6.00	02/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106	% 73.3-12	9			9 (* 14 – 9 (* 18 m.) de la confederación de l			
Chloride, SM4500Ci-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/19/2019	ND	432	108	400	3.77	
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*	8330	100	02/18/2019	ND	177	88.7	200	11.3	
DRO >C10-C28*	16800	100	02/18/2019	ND	182	91.1	200	9.86	
EXT DRO >C28-C36	2650	100	02/18/2019	ND					
Surrogate: 1-Chlorooctane	249	% 41-142							
Surrogate 1-Chlorooctadecane	421	% 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

02/15/2019

02/21/2019

Project Name: Project Number:

Received:

Reported:

WERTA FED BATTERY

Project Location:

NONE GIVEN NONE GIVEN Sampling Date:

Sampling Type:

Sample Received By:

Sampling Condition:

02/15/2019 Soil

Cool & Intact

Tamara Oldaker

Sample ID: SP 4 @ SURFACE (H900623-07)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	77.3	2.00	02/20/2019	ND	1.92	96.0	2.00	4.30	
Toluene*	296	2.00	02/20/2019	ND	1.95	97.3	2.00	3.96	
Ethylbenzene*	172	2.00	02/20/2019	ND	1.97	98.7	2.00	3.53	
Total Xylenes*	357	6.00	02/20/2019	ND	5.78	96.3	6.00	3.39	
Total BTEX	902	12.0	02/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	109	% 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	3440	16.0	02/19/2019	ND	432	108	400	3.77	
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*	16300	100	02/18/2019	ND	177	88.7	200	11.3	
DRO >C10-C28*	43700	100	02/18/2019	ND	182	91.1	200	9.86	
EXT DRO >C28-C36	6090	100	02/18/2019	ND					
Surrogate: 1-Chlorooctane	500	% 41-142	?						
Surrogate: 1-Chlorooctadecane	1040	% 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:

02/15/2019

02/21/2019

Reported: Project Name:

WERTA FED BATTERY

Project Number: Project Location:

NONE GIVEN

NONE GIVEN

Sampling Date:

02/15/2019

Sampling Type:

Soil

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

Sample ID: SP 4 @ 1' (H900623-08)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	9.81	1.00	02/20/2019	ND	1.92	96.0	2.00	4.30	
Toluene*	46.8	1.00	02/20/2019	ND	1.95	97.3	2.00	3.96	
Ethylbenzene*	28.7	1.00	02/20/2019	ND	1.97	98.7	2.00	3.53	
Total Xylenes*	59.9	3.00	02/20/2019	ND	5.78	96.3	6.00	3.39	
Total BTEX	145	6.00	02/20/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	101	% 73 3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1310	16.0	02/19/2019	ND	432	108	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*	974	50.0	02/18/2019	ND	177	88.7	200	11.3	
DRO >C10-C28*	3000	50.0	02/18/2019	ND	182	91.1	200	9.86	
EXT DRO >C28-C36	314	50.0	02/18/2019	ND					
Surrogate 1-Chlorooctane	72.6	% 41-14:	?						
Surrogate 1-Chlorooctadecane	108	% 37.6-14	7						

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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.
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 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.
2	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	BILL 10	ממארוטוע אוועטוועי
Baller	P.O. #:	
Address:	Company:	
city: /-/ ablas state: ////zip: ~ 8240	Attn:	
Phone #: Fax #:	Address:	
Project #: Project Owner:	City:	
Project Name:	State: Zip:	
Project Location: Wasting Co. Project Location:	Phone #:	
Sampler Name: /) (1) 11 De (Te e)	Fax #:	
FOR IAB USE ONLY MATRIX	PRESERV. SAMPLING	10.
R (C)OMP.	الآل	
GIRAB OIL SLUDGE	OTHER: ACID/BASICE/ COO OTHER: DATE	
Back	2/15	
2 58 0 4	211111111111111111111111111111111111111	
3 SPASURACE 11	2:48 ///	
4 50 201	1 247	
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C 58 20 C		
7 SQ 48 WALLEY 7	ニー・ダ語・ノて	
8 Sp 4 8	10/52:58//	
PLEASE NUTE: Usany and Unanges. Cardwid seamy and dense accuses remoty or any commercing whether based in command or for, sheet to arrived to the amount paid by the dense of the applicable inalyses. All claims including those for ingligence and any other cause whatbower shall be deemed wewed unless made in writing and received by Cardwid within 30 days after completion of the applicable	or earl, sneed se arrowed to one amount peed by the check for the received by Cardinal within 30 days after completion of the applicable	

Relinquished By: Relinquished By: Sampler - UPS - Bus - Other: Delivered By: (Circle One) Time: 125 Time: Date: 15-19 Received By: Received By: Sample Condition
Cool Intact
Pres 14-res
No 11 No CHECKED BY: (Initials) 4 Phone Result: Fax Result: REMARKS: Email Rusults ☐ Yes ☐ No Add'l Phone #: Add'l Fax #:



April 24, 2019

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WERTA 001

Enclosed are the results of analyses for samples received by the laboratory on 04/16/19 15:34.

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 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,

Celev D. Keene

Received by OCD: 11/23/2020 12:29:21 PM

Lab Director/Quality Manager



Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

04/16/2019

Sampling Date:

04/16/2019

Reported:

04/24/2019

Sampling Type:

Soil

Project Name:

WERTA 001

Sampling Condition:

Cool & Intact

Project Number: Project Location: **NONE GIVEN**

Sample Received By:

Jodi Henson

NONE GIVEN

Sample ID: SP 1 @ 2' (H901392-01)

BTEX 80218	mg,	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	5.32	0.500	04/19/2019	ND	1.81	90.3	2.00	0.550	
Toluene*	41.7	0.500	04/19/2019	ND	1.86	93.0	2.00	1.21	
Ethylbenzene*	39.2	0.500	04/19/2019	ND	1.86	93.1	2.00	3.32	
Total Xylenes*	94.9	1.50	04/19/2019	ND	5.28	88.1	6.00	3.58	
Total BTEX	181	3.00	04/19/2019	ND					
Surrogate: 4-Bromofluorohenzene (PIE	141	% 73.3-12	9						
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*	2710	50.0	04/18/2019	ND	197	98,6	200	0.976	
DRO >C10-C28*	9050	50.0	04/18/2019	ND	188	94.2	200	0.00213	
EXT DRO >C28-C36	1900	50.0	04/18/2019	ND					
Surrogate: 1-Chlorooctane	202	% 41-142	?		20,11				
Surrogate: 1-Chlorooctadecane	316	% 37.6-14	7						

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

Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

04/16/2019 04/24/2019 Sampling Date:

04/16/2019

Reported:

WERTA 001

Sampling Type: Sampling Condition: Soil Cool & Intact

Project Name: Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NONE GIVEN

Sample ID: SP 1 @ 3' (H901392-02)

BTEX 8021B	mg/kg		Analyzed By: MS						\$-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	04/19/2019	ND	1.81	90.3	2.00	0.550	
Toluene*	0.466	0.050	04/19/2019	ND	1.86	93.0	2.00	1.21	
Ethylbenzene*	1.61	0.050	04/19/2019	ND	1.86	93.1	2.00	3.32	
Total Xylenes*	2.89	0.150	04/19/2019	ND	5.28	88.1	6.00	3.58	
Total BTEX	4.97	0.300	04/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	183 %	73.3-12	9	distribute frontilene remainer street insulventum					
TPH 8015M	mg/l	(g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	40.7	10.0	04/18/2019	ND	197	98.6	200	0.976	
DRO >C10-C28*	477	10.0	04/18/2019	ND	188	94.2	200	0.00213	
EXT DRO >C28-C36	165	10.0	04/18/2019	ND					
Surrogate: 1-Chlorooctane	103 %	6 41-142		industrial of the section of the sec					
Surrogate: 1-Chlorooctadecane	106 %	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: 04/16/2019 04/24/2019 WERTA 001

Sampling Type: Sampling Condition: Soil

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

Project Name: Project Number: Project Location:

NONE GIVEN NONE GIVEN

Sample Received By:

Sampling Date:

Sample ID: SP 1 @ 4' (H901392-03)

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	04/23/2019	ND	1.81	90.3	2.00	0.550	
Toluene*	<0.050	0.050	04/23/2019	ND	1.86	93.0	2.00	1.21	
Ethylbenzene*	1.36	0.050	04/23/2019	ND	1.86	93.1	2.00	3.32	
Total Xylenes*	1.60	0.150	04/23/2019	ND	5.28	88.1	6.00	3.58	
Total BTEX	2.96	0.300	04/23/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	78.5	73.3-12	?9						
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*	115	10.0	04/18/2019	ND	197	98.6	200	0.976	
DRO >C10-C28*	1560	10.0	04/18/2019	ND	188	94.2	200	0.00213	
EXT DRO >C28-C36	452	10.0	04/18/2019	ND					
Surrogate: 1-Chlorooctane	119 9	6 41-143	2						
Surrogate: 1-Chlorooctadecane	1319	6 37.6-14	17:						

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 04/16/2019

Project Name:

04/24/2019 WERTA 001

Project Number: Project Location: NONE GIVEN NONE GIVEN Sampling Date:

04/16/2019

Sampling Type:

Soil

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

Sample ID: SP 1 @ 5' (H901392-04)

BTEX 8021B

BTEX 8021B	mg/	kg	Analyze	d By: M5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.155	0.050	04/24/2019	ND	1.81	90.3	2.00	0.550	
Toluene*	1.45	0.050	04/24/2019	ND	1.86	93.0	2.00	1.21	
Ethylbenzene*	3.36	0.050	04/24/2019	ND	1.86	93.1	2.00	3.32	
Total Xylenes*	8.64	0.150	04/24/2019	ND	5.28	88.1	6.00	3.58	
Total BTEX	13.6	0.300	04/24/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	83.4	% 73.3-12	9						
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*	344	50.0	04/18/2019	ND	197	98.6	200	0.976	
DRO >C10-C28*	5400	50.0	04/18/2019	ND	188	94.2	200	0.00213	
EXT DRO >C28-C36	1490	50.0	04/18/2019	ND					
Surrogate 1-Chlorooctane	184	% 41-142	?						
Surrogate 1-Chlorooctadecane	249	% 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: 04/16/2019 04/24/2019 WERTA 001

Project Name: Project Number: Project Location: NONE GIVEN

NONE GIVEN

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: 04/16/2019 Soil

Cool & Intact

Jodi Henson

Sample ID: SP 1 @ 5'7 (H901392-05)

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	04/19/2019	ND	1.81	90.3	2.00	0.550	
Toluene*	0.187	0.050	04/19/2019	ND	1.86	93.0	2.00	1.21	
Ethylbenzene*	0.376	0.050	04/19/2019	ND	1.86	93.1	2.00	3.32	
Total Xylenes*	1.04	0.150	04/19/2019	ND	5.28	88.1	6.00	3.58	
Total BTEX	1.60	0.300	04/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	129	% 73.3-12	9			de P-66 Plate in disable in view - 0 P-10		halak-balak kelle bilak saorak ao 1846 b	
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*	32.7	10.0	04/18/2019	ND	197	98.6	200	0.976	
DRO >C10-C28*	1450	10.0	04/18/2019	ND	188	94.2	200	0.00213	
EXT DRO >C28-C36	458	10.0	04/18/2019	ND					

Surrogate 1-Chlorooctane	106 %	41-142
Surrogate: 1-Chlorooctadecane	129 %	37.6-147

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

Fax To:

(575) 393-2432

Received: Reported: 04/16/2019

04/24/2019

Project Name: Project Number: Project Location: WERTA 001 **NONE GIVEN**

NONE GIVEN

Sampling Date:

04/16/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 3 @ 2' (H901392-06)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	0.099	0.050	04/24/2019	ND	1.81	90.3	2.00	0.550	
Toluene*	2.44	0.050	04/24/2019	ND	1.86	93.0	2.00	1.21	
Ethylbenzene*	3.72	0.050	04/24/2019	ND	1.86	93.1	2.00	3,32	
Total Xylenes*	10.9	0.150	04/24/2019	ND	5.28	88.1	6.00	3.58	
Total BTEX	17.2	0.300	04/24/2019	ND					
Surrogate 4-Bromofluorobenzene (PIE	201	% 73 3-12	9	0-7-1-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-					
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*	167	10.0	04/18/2019	ND	197	98.6	200	0.976	
DRO >C10-C28*	850	10.0	04/18/2019	ND	188	94.2	200	0.00213	
EXT DRO >C28-C36	177	10.0	04/18/2019	ND					
Surrogate: 1-Chlorooctane	131	% 41-142	**************************************	- Or the feet of the formal to - Or The Malach annuals care do sum					
Surrogate: 1-Chlorooctadecane	119	% 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:

04/16/2019 04/24/2019 Sampling Date:

04/16/2019

Reported: Project Name: WERTA 001

Sampling Type:

Soil

Project Number:

NONE GIVEN

Sampling Condition:

Cool & Intact

Project Location:

NONE GIVEN

Sample Received By:

Jodi Henson

Sample ID: SP 3 @ 3' (H901392-07)

BTEX 8021B	mg/l	(g	Analyze	d By: MS					\$-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.086	0.050	04/19/2019	ND	1.81	90.3	2.00	0.550	
Toluene*	1.29	0.050	04/19/2019	ND	1.86	93.0	2.00	1.21	
Ethylbenzene*	2.50	0.050	04/19/2019	ND	1.86	93.1	2.00	3.32	
Total Xylenes*	6.39	0.150	04/19/2019	ND	5.28	88.1	6.00	3.58	
Total BTEX	10.3	0.300	04/19/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	162 %	6 73 3-12	9						
TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	135	10.0	04/18/2019	ND	197	98.6	200	0.976	
DRO >C10-C28*	1190	10.0	04/18/2019	ND	188	94.2	200	0.00213	
EXT DRO >C28-C36	267	10.0	04/18/2019	ND					
Surrogate: 1-Chlorooctane	129 %	6 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:

04/16/2019

Sampling Date:

04/16/2019

Reported:

04/24/2019 WERTA 001

Sampling Type: Sampling Condition: Soil Cool & Intact

Project Name: Project Number:

NONE GIVEN

Project Location:

NONE GIVEN

Sample Received By:

Jodi Henson

Sample ID: SP 3 @ 4' (H901392-08)

BTEX 8021B	mg,	/kg	Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.381	0.050	04/24/2019	ND	1.81	90.3	2.00	0.550	
Toluene*	4.65	0.050	04/24/2019	ND	1.86	93.0	2.00	1.21	
Ethylbenzene*	5.15	0.050	04/24/2019	ND	1.86	93.1	2.00	3.32	
Total Xylenes*	12.4	0.150	04/24/2019	ND	5.28	88.1	6.00	3.58	
Total BTEX	22.6	0.300	04/24/2019	ND					

TPH 8015M	mg/kg		Analyze	Analyzed By: MS					5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	268	10.0	04/19/2019	ND	190	94.9	200	2.00	QM-07
DRO >C10-C28*	2110	10.0	04/19/2019	ND	197	98.4	200	4.28	QM-07
EXT DRO >C28-C36	373	10.0	04/19/2019	ND					

Surrogate: 1-Chlorooctane

145 %

41-142

Surrogate: 1-Chlorooctadecane

155 %

37.6-147

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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:

04/16/2019

Sampling Date:

04/16/2019

Reported:

04/24/2019

Sampling Type:

Soil

Project Name:

WERTA 001 NONE GIVEN Sampling Condition:

Cool & Intact

Project Number: Project Location:

NONE GIVEN

Sample Received By:

Jodi Henson

Sample ID: SP 4 @ 2' (H901392-09) BTEX 80218

mg/kg	Analyzed By: M

\$-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.082	0.050	04/19/2019	ND	1.81	90.3	2.00	0.550	
Toluene*	0.556	0.050	04/19/2019	ND	1.86	93.0	2.00	1.21	
Ethylbenzene*	0.949	0.050	04/19/2019	ND	1.86	93.1	2.00	3.32	
Total Xylenes*	3.17	0.150	04/19/2019	ND	5.28	88.1	6.00	3.58	
Total BTEX	4.76	0.300	04/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE

135 %

73.3-129

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	53.6	10.0	04/19/2019	ND	190	94.9	200	2.00	
DRO >C10-C28*	249	10.0	04/19/2019	ND	197	98.4	200	4.28	
EXT DRO >C28-C36	45.8	10.0	04/19/2019	ND					

Surrogate: 1-Chlorooctane

Received by OCD: 11/23/2020 12:29:21 PM

99.5 %

41-142

Surrogate: 1-Chlorooctadecane

99.5 %

37.6-147

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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:

04/16/2019 04/24/2019 Sampling Date:

04/16/2019

Reported:

Sampling Type:

Soil

Project Name: Project Number: WERTA 001 NONE GIVEN Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Location:

NONE GIVEN

Sample ID: SP 4 @ 3' (H901392-10) DTEV BOSIN

DIEY OASTR	mg/	rkg	Analyze	ed by: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2019	ND	1.81	90.3	2.00	0.550	
Toluene*	<0.050	0.050	04/19/2019	ND	1.86	93.0	2.00	1.21	
Ethylbenzene*	<0.050	0.050	04/19/2019	ND	1.86	93.1	2.00	3.32	
Total Xylenes*	< 0.150	0.150	04/19/2019	ND	5.28	88.1	6.00	3.58	
Total BTEX	<0.300	0.300	04/19/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE

98.4%

73.3-129

TPH 8015M	mg,	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	04/19/2019	ND	190	94.9	200	2.00	
DRO >C10-C28*	54.6	10.0	04/19/2019	ND	197	98.4	200	4.28	
EXT DRO >C28-C36	10.9	10.0	04/19/2019	ND					

Surrogate: 1-Chlorooctane

Received by OCD: 11/23/2020 12:29:21 PM

86.7%

41-142

Surrogate: 1-Chlorooctadecane

87.6%

37.6-147

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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:

04/16/2019 04/24/2019 Sampling Date: Sampling Type: 04/16/2019

Reported:

BTEX 80218

WERTA 001

Sampling Condition:

Soil

Project Name: Project Number:

NONE GIVEN

Sample Received By:

Cool & Intact Jodi Henson

Project Location:

NONE GIVEN

mg/kg

Sample ID: SP 4 @ 4' (H901392-11)

				·					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	04/19/2019	ND	1.81	90.3	2.00	0.550	
Toluene*	<0.050	0.050	04/19/2019	ND	1.86	93.0	2.00	1.21	
Ethylbenzene*	<0.050	0.050	04/19/2019	ND	1.86	93.1	2.00	3.32	
Total Xylenes*	<0.150	0.150	04/19/2019	ND	5.28	88.1	6.00	3.58	
Total BTEX	<0.300	0.300	04/19/2019	ND					
Surrogate 4-Bromofluorobenzene (PIE	98.0 9	% 73.3-12	9						
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	04/19/2019	ND	190	94.9	200	2.00	
DRO >C10-C28*	<10.0	10.0	04/19/2019	ND	197	98.4	200	4.28	

ND

Analyzed By: MS

Surrogate: 1-Chlorooctane

EXT DRO >C28-C36

Received by OCD: 11/23/2020 12:29:21 PM

79.3 %

<10.0

41-142

04/19/2019

10.0

Surrogate: 1-Chlorooctadecane

80.0 %

37.6-147

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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.
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 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

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Received by OCD: 11/23/2020 12:29:21 PM

Sampler - UPS - Bus - Other: 4,30/#97

Sample Condition Cool intact Yes Yes

Delivered By: (Circle One)



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Page 14 of 15

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

Company Name:	BPACHE CHANDATIN		BILL TO	NA NA	ANALYSIS REQUEST
Project Manager:	Space BA		P.O. #:		- 1
Address:			Company:		
City:	State:	Zip:	Attn:		
Phone #:	Tiax		Address:		
Project #:	Project Owner:		City:		
Project Name:			State: Zip:		
Project Location:	LYERTH OOL		Phone #:		
	0 334				
Sampler Name:	WANNS LISO		子の女が	_	
FOR UAB USE ONLY		MATRIX	PRESERV. SAMPLING	H	
Lab I.D.	Sample I.D.	B OR (C)OMP ITAINERS NOWATER EWATER	BASE	EX kt. TP.	A =
1901392		# CON GROU	OTHEI ACID/E ICE / C OTHEI DATE		
1	SP1 @ 2'		05.01 HWA		
2	5/20) 3'		1/1:20		
3	501 00 41		12:06		
4	SP1 @ 51		1:58		
J.	SP1 0) 5'7		2:34		
[0]	\$13 (O) 21		62.0		
ک	SP3 @ 3'		11:10		
00.	583041		13:30		
٩	SP4 0) 3'		1/ W:25		
ā	SP4 131		4/16/19 11:10		
PLEASE NOTE: Linkby and Dunages, Co	Dunages, Cledisch lability and clearly exchance remark has these for registence and any other cause wholesever shall be	e remark for any chim coming whether based in contract or test,	eract or test, shall be limited to the amband pand by the client for the grand received by Caudinal within 30 days after completion of the applicable	the applicable	
payetra, in you sweet shedi Co	payrics, in you count shall Cardoul be babb for incidental or consequential damages, inchafing without	y vellegad berdadame, beautemen betarrapidaren, b	furthfully, business interruptions, has of sea, or less of profits incurred by clost, its industriess	PROB.	

Time: 3:34 Time: Date: Fax Result: REMARKS: O Yes

8 8 8

Add'l Phone #: Add'l Fax #:

Relinquished By:

Received by OCD: 11/23/2020 12:29:21 PM

Sampler - UPS - Bus - Other:

430

15年/

Delivered By: (Circle One)



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	KIPACHE CREARAN		BI	B/LL TO	ANALYSIS REQUEST
Project Manager:	k		P.O. #:		
Address:			Company:		
City:	State:	Zip:	Attn:		
Phone #:	Tax *:		Address:		
Project #:	Project Owner:	Ä	City:		
Project Name:			State:	Zip:	
Project Location:	WELLA DOIL		Phone #:		
Sampler Name:	0		Tax #:		
FOR LAB USE DIALY			MATRIX PRESERV	SAMPLING	OH .
Lab I.D.	Sample I.D.	CONTAINERS ROUNDWATER VASTEWATER OIL	LUDGE ITHER CID/BASE CE / COOL	DATE TIME	BTEX EXT. TI
	SP4041			-c1:01 (1/9/h	
PLEASE NOTE: Landy and	PLEASE NOTE: Landay and Oursegon. Continues basiley and clears exchance reviewey for may clause sensing whether bessel in contract or bot, shed to branch to be arrunned point by the clause to be	The case areas where the	d in contract or test, shed by furnish	to the property part by the Clerk	Star Bo

Relinquished By analyses. All chims including these for negligance and any other service. In an executative Commission to boths for incidental or comm Relinquished by Time: 3:34 Time: Date: Phone Result: Fax Result: REMARKS: O Yes 8 8

Add'l Phone #: Add'l Fax #:

Page 15 of 15



March 11, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WERTA FEDERAL

Enclosed are the results of analyses for samples received by the laboratory on 03/09/20 11:33.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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. Keene

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: 03/09/2020 Sampling Date: 03/09/2020 Reported: 03/11/2020 Sampling Type: Soil

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

Project Location: NONE GIVEN

Sample ID: HC 1 (H000736-01)

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	03/10/2020	ND	2.00	99.9	2.00	0.430	
Toluene*	<0.050	0.050	03/10/2020	ND	2.02	101	2.00	0.251	
Ethylbenzene*	<0.050	0.050	03/10/2020	ND	2.03	102	2.00	0.353	
Total Xylenes*	<0.150	0.150	03/10/2020	ND	5.87	97.9	6.00	0.536	
Total BTEX	<0.300	0.300	03/10/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/09/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2020	ND	198	99.1	200	6.26	
DRO >C10-C28*	<10.0	10.0	03/10/2020	ND	202	101	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	03/10/2020	ND					
Surrogate: 1-Chlorooctane	90.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	94.6	% 42.2-15	6						

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Kreene



Analytical Results For:

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

Received: 03/09/2020

Sampling Date: 03/09/2020 Reported: 03/11/2020 Sampling Type: Soil

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

Project Location: NONE GIVEN

Sample ID: HC 2 (H000736-02)

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	03/10/2020	ND	2.00	99.9	2.00	0.430	
Toluene*	<0.050	0.050	03/10/2020	ND	2.02	101	2.00	0.251	
Ethylbenzene*	<0.050	0.050	03/10/2020	ND	2.03	102	2.00	0.353	
Total Xylenes*	<0.150	0.150	03/10/2020	ND	5.87	97.9	6.00	0.536	
Total BTEX	<0.300	0.300	03/10/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 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	96.0	16.0	03/09/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2020	ND	198	99.1	200	6.26	
DRO >C10-C28*	<10.0	10.0	03/10/2020	ND	202	101	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	03/10/2020	ND					
Surrogate: 1-Chlorooctane	85.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	89.9	% 42.2-15	6						

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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: 03/09/2020 Sampling Date: 03/09/2020

Reported: 03/11/2020 Sampling Type: Soil

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

Project Location: NONE GIVEN

Sample ID: HC 3 (H000736-03)

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	03/10/2020	ND	1.79	89.4	2.00	10.3	
Toluene*	<0.050	0.050	03/10/2020	ND	1.78	89.0	2.00	10.2	
Ethylbenzene*	<0.050	0.050	03/10/2020	ND	1.81	90.5	2.00	10.2	
Total Xylenes*	<0.150	0.150	03/10/2020	ND	5.30	88.4	6.00	10.4	
Total BTEX	<0.300	0.300	03/10/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	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	03/09/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2020	ND	198	99.1	200	6.26	
DRO >C10-C28*	<10.0	10.0	03/10/2020	ND	202	101	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	03/10/2020	ND					
Surrogate: 1-Chlorooctane	86.99	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	91.4	% 42.2-15	6						

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Celeg D. Freene



Analytical Results For:

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

Received: 03/09/2020 Sampling Date: 03/09/2020

Reported: 03/11/2020 Sampling Type: Soil

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

Project Location: NONE GIVEN

Sample ID: HC 4 (H000736-04)

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	03/10/2020	ND	1.79	89.4	2.00	10.3	
Toluene*	<0.050	0.050	03/10/2020	ND	1.78	89.0	2.00	10.2	
Ethylbenzene*	<0.050	0.050	03/10/2020	ND	1.81	90.5	2.00	10.2	
Total Xylenes*	<0.150	0.150	03/10/2020	ND	5.30	88.4	6.00	10.4	
Total BTEX	<0.300	0.300	03/10/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	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	144	16.0	03/09/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2020	ND	198	99.1	200	6.26	
DRO >C10-C28*	<10.0	10.0	03/10/2020	ND	202	101	200	5.36	
EXT DRO >C28-C36	<10.0	10.0	03/10/2020	ND					
Surrogate: 1-Chlorooctane	90.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	94.5	% 42.2-15	6						

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Celeg D. Freene



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 SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Time:

1/33

Received By:

REMARKS:

Relinquished By

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Observed Temp. °C
Corrected Temp. °C

Sample Condition
Cool Intact
Pes Fes
No No

CHECKED BY: (Initials)

Turnaround Time:

Standard Rush

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476

Company Name: Clack Ciloration		ANALYSIS REQUEST
Project Manager:	P.O. #:	
Address:	Company:	
City: State:	Zip: Attn:	
Phone #: Fax #:	Address:	
Project #: Project Owner:	er: City:	
Project Name: Westa FEDERAL	State: Zip:	
Project Location: Wife FEDERAL	Phone #:	
Sampler Name: U. Brugon	Fax#:	
FOR LAB USE ONLY	MATRIX PRESERV.	SAMPLING
Lab I.D. Sample I.D.	AB OR (C)OMINTAINERS DUNDWATER TEWATER DGE ER: D/BASE: COOL ER:	TL BTEX EXT. TPH
H000736	# CO GRO WA SOI OIL SLU OTH ACI ICE	m (
1000	0	1000000
3 HC3	0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
4 1104	3/5	1/2 1/2 1/2 1/2
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 the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	r any claim arising whether based in contract or tort, shall be limited to the ar be deemed waived unless made in writing and received by Cardinal within 30 ing without limitation, business interruptions, loss of use, or loss of profits inc	mount paid by the client for the I days after completion of the applicable surred by client, its subsidiaries,
affiliates of successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Reclinquished By: Verbal Res	v Cardinal, regardless of whether such claim is based upon any of the above Received By:	verbal Result: ☐ Yes ☐ No Add'I Phone #:
		emailed. Please provi

Thermometer ID #97 Correction Factor + 0.4 °C



January 20, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WERTA 001

Enclosed are the results of analyses for samples received by the laboratory on 01/15/20 15:51.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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. Keene

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: 01/15/2020

Reported: 01/20/2020 Project Name: WERTA 001

Project Name: WERTA 001
Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 01/15/2020

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 10' (H000141-01)

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	01/17/2020	ND	2.07	104	2.00	10.5	
Toluene*	< 0.050	0.050	01/17/2020	ND	2.08	104	2.00	10.8	
Ethylbenzene*	< 0.050	0.050	01/17/2020	ND	2.11	106	2.00	10.6	
Total Xylenes*	<0.150	0.150	01/17/2020	ND	6.19	103	6.00	10.9	
Total BTEX	<0.300	0.300	01/17/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	6 73.3-12	9						
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	01/18/2020	ND	224	112	200	0.417	
DRO >C10-C28*	<10.0	10.0	01/18/2020	ND	229	115	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	01/18/2020	ND					
Surrogate: 1-Chlorooctane	89.7	% 41-142	?						
Surrogate: 1-Chlorooctadecane	92.1	% 37.6-14	7						

Cardinal Laboratories *=Accredited Analyte

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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: 01/15/2020

Sampling Date: 01/15/2020 Reported: 01/20/2020 Sampling Type: Soil

Project Name: WERTA 001 Sampling Condition: ** (See Notes) Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: SP 1 @ 15' (H000141-02)

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	01/17/2020	ND	2.07	104	2.00	10.5	
Toluene*	<0.050	0.050	01/17/2020	ND	2.08	104	2.00	10.8	
Ethylbenzene*	<0.050	0.050	01/17/2020	ND	2.11	106	2.00	10.6	
Total Xylenes*	<0.150	0.150	01/17/2020	ND	6.19	103	6.00	10.9	
Total BTEX	<0.300	0.300	01/17/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	73.3-12	9						
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	01/18/2020	ND	224	112	200	0.417	
DRO >C10-C28*	<10.0	10.0	01/18/2020	ND	229	115	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	01/18/2020	ND					
Surrogate: 1-Chlorooctane	99.5	% 41-142	!						
Surrogate: 1-Chlorooctadecane	101 9	% 37.6-14	7						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

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

Received: 01/15/2020 Sampling Date: 01/15/2020 Reported: 01/20/2020 Sampling Type: Soil

Project Name: WERTA 001 Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: SP 1 @ 20' (H000141-03)

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	01/17/2020	ND	2.07	104	2.00	10.5	
Toluene*	<0.050	0.050	01/17/2020	ND	2.08	104	2.00	10.8	
Ethylbenzene*	<0.050	0.050	01/17/2020	ND	2.11	106	2.00	10.6	
Total Xylenes*	<0.150	0.150	01/17/2020	ND	6.19	103	6.00	10.9	
Total BTEX	<0.300	0.300	01/17/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6 %	6 73.3-12	9						
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	01/18/2020	ND	224	112	200	0.417	
DRO >C10-C28*	<10.0	10.0	01/18/2020	ND	229	115	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	01/18/2020	ND					
Surrogate: 1-Chlorooctane	98.2 %	6 41-142	?						
Surrogate: 1-Chlorooctadecane	100 %	6 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: 01/15/2020

Reported: 01/20/2020 Project Name: WERTA 001

Project Number: NONE GIVEN
Project Location: NONE GIVEN

Sampling Date: 01/15/2020

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 25' (H000141-04)

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	01/17/2020	ND	2.07	104	2.00	10.5	
Toluene*	<0.050	0.050	01/17/2020	ND	2.08	104	2.00	10.8	
Ethylbenzene*	<0.050	0.050	01/17/2020	ND	2.11	106	2.00	10.6	
Total Xylenes*	<0.150	0.150	01/17/2020	ND	6.19	103	6.00	10.9	
Total BTEX	<0.300	0.300	01/17/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3 %	73.3-12	9						
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	01/18/2020	ND	224	112	200	0.417	
DRO >C10-C28*	<10.0	10.0	01/18/2020	ND	229	115	200	2.47	
EXT DRO >C28-C36	<10.0	10.0	01/18/2020	ND					
Surrogate: 1-Chlorooctane	96.5 %	6 41-142	?						
Surrogate: 1-Chlorooctadecane	99.1 9	6 37.6-14	7						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326 FAX (575) 393-2476

Company Name: Qache	Corporation	07 11/8	ANALYSIS REQUEST
Project Manager: Bruce &	aken	P.O. #:	
Address:		Company:	
City:	State: Zip:	Attn:	
Phone #:	Fax #:	Address:	
Project #:	Project Owner:	City:	
Project Name: Werfa *	201	State: Zip:	
Project Location: Werke	100%	Phone #:	
Sampler Name: JEFF Prom	}	Fax #:	
		MATRIX PRESERV. SAMPLING	LING
	R (C)OMP. NERS WATER		r. TPH
H000141	(G)RAB OR # CONTAIN GROUNDW WASTEWA	SOIL OIL SLUDGE OTHER: ACID/BASE ICE / COOL OTHER: DATE	BIEX EXT.
1 SPI @ 10'			
2 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0			
15/10 25		11/5/20	
*LEASE NOTE: Liability and Damages, Cardinal's liability a	nd client's exclusive remedy for any daim arising whether	*LEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any dairn arising whether based in contract or tort, shall be limited to the amount naid by the client for the	ruthe client for the
nalyses. All claims including those for negligence and any other cause whatsoever shall be deemed render. In no event shall Cardinal be liable for incidental or consequental damages, including without stillates or successors arising out of or related to the performance of services hereunder by Cardinal, to	uther cause whatsoever shall be deemed waived unless a consequental damages, including without limitation, busin nance of services hereunder by Cardinal, regardless of w	nalyses. All claims including those for negligence and any other cause whatsoever shall be deemed waked unless made in writing and received by Cardinal within 30 days after completion of the applicable render. 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, stifflates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	nonmpletion of the applicable not in the subsidiarities, ons or otherwise.
Relinquished By:	Date: //5/30 Received By:	and Solded for	Verbal Result: ☐ Yes ☐ No Add'I Phone #: All Results are emailed. Please provide Email address:
Relinquished By:	Date: Received By:		REMARKS:
	٥		at straig
(Circle O	1.0	Intact (Initials)	Turnaround Time: Standard
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Ano No No	□ Yes □ Yes □ No □ No
- CIVII-000 IV 0.0		Service of the servic	1





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Incident ID	NAB1905229182
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.			
Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)			
<u>Deferral Requests Only</u> : Each of the following items must be confirmed as part of any request for deferral of remediation.			
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.			
Extents of contamination must be fully delineated.			
Contamination does not cause an imminent risk to human health, the environment, or groundwater.			
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.			
Printed Name: Larry Baker Title: Environmental Tech SR.			
rinted Name: Larry Baker ignature: Larry Baker Title: Environmental Tech SR. Date: 11/23/2020			
email: larry.baker@apachecorp.com Telephone: 432-631-6982			
OCD Only			
Received by: Robert Hamlet	Date: 4/9/2021		
Approved With Attached Conditions of	Approval		
Signature: Robert Hamlet	Date: 4/9/2021		

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

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 11289

CONDITIONS OF APPROVAL

Operator	:		OGRID:	Action Number:	Action Type:
	APACHE CORPORATION	303 Veterans Airpark Ln	873	11289	C-141
#1000	Midland, TX79705				

١	OCD	Condition
	Reviewer	
I	rhamlet	Borehole to 51' showing no groundwater allows for vertical delineation to 2,500 mg/kg (for GRO+DRO+MRO) or 1,000 mg/kg (for GRO+DRO) and chlorides to 10,000 mg/kg. Please make sure the release
١		is horizontally delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. If rock refusal is encountered, use hydrovac to clean contaminated soil off rock. Layer clean
		rock with microbial strains to digest organics and hydrocarbons. Back-fill with clean material.