

303 Veterans Airpark Lane Midland, TX 79705

Closure Report

August 21, 2024

Re: Red Lake 28 State K Battery Case # 2RP-3960, 2RP-3961 nAB1629941525, nAB1629936433

On 10/04/2016 a release occurred due to a nipple corroded. On 10/11/2016 a release occurred due to a pin hole developed in the steel circulating tank. The release (GPS: 32.8027039, - 104.1840439) is west of Artesia, New Mexico in unit letter K section 28 township 17S range 28E. A groundwater survey was conducted utilizing NMOSE and USGS wells of record. The nearest well suggest that groundwater beneath the release to be 257 feet below ground surface.

On 1/15/2020 the release area east of the battery was excavated to a depth of 7 feet below ground surface. Final 5-point bottom and wall composite samples were collected and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Laboratory results were above table one standards W1 for TPH. On 1/22/2020 and 2/11/2020 W1 was further excavated, and a final 5-point wall composite sample was submitted to a commercial laboratory results were below table one standards on the sample submitted on 2/11/2021.

On 6/22/2021 delineation samples were collected inside the battery, the pasture area to the south and the top 4 feet for W4 and W5 associated with the 7 feet excavation. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. The pasture area south of the battery was excavated to a depth of 3 feet. On 7/13/2021 final 5-point bottom and wall samples were collected not to exceed 200 square feet. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Once all laboratory results were below table one standards and reclamation standards the 7-foot excavation was backfilled with clean imported caliche to ground surface and the pad restored. The 3-foot excavation in the pasture was backfilled with clean imported to pasture area will be reseeded NMSLO Loamy seed mixture.

A deferment request was submitted and denied by OCD due to groundwater not being determined adequately and incomplete delineation. On 8/3/2021 a soil bore (GPS: 32.798190, -104.177687) was drilled to a depth of 104 feet and left open for 72 hours and gauged with no presence of water. The soil bore demonstrates that the depth to groundwater is greater than 104 feet. On 7/31/2024 W2 and W6 were sampled not to exceed 200 square feet and submitted to a commercial laboratory for TPH to complete horizontal delineation. 5-point composite samples were collected at B2 and B3 inside the facility not to exceed 200 square feet and submitted to a commercial laboratory for analysis of TPH. The laboratory analysis of the samples were below table one most stringent remediation standards.

Apache Corporation has remediated the release to below table one standards for releases greater than 100 feet to groundwater and reclaimed the pasture area to the reclamation standards and respectfully request that events nAB1629941525 and nAB1629936433 be closed.

Enclosed: C-141, Maps, Sample Data, Laboratory Results, Photos and Revegetation and Noxious Weed Plan.

Submitted by.

larry Baker

Environmental Specialist Sr. larry.baker@apachecorp.com Cell# 432-250-8384

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NAB 1629941525		OPERA	TOR		🛛 Initi	al Report 🔲 Final Report
Name of Company: Apache Corporation 873		Contact Br				
Address: 2350 W Marland Blvd Hobbs, NM 88240		Felephone	No. (432) 631-6	5982		
Facility Name Red Lake K State # 1 Battery		Facility Typ	be: Battery		·	
Surface Owner State Mineral		1			API No	0. 30-015-33740
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Unit Letter Section Township Range Feet from the	North/	South Line	Feet from the	East/W	est Line	County
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Describe Cause of Problem and Remedial Action Taken.*	-					
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Received by OCD: 11/19/2024 12:00:19 AM Form C-141 State of New Mexico

Oil Conservation Division

	Page 5 of 148
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?	(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 vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
 Field data
- Data table of soil contaminant concentration data
- \checkmark Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- ✓ Topographic/Aerial maps
- ☑ Laboratory data including chain of custody

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

Received by OCD: 11/19/2024 12:00:19 AM Form C-141 Stat	e of New Mexico		Page 6 of 1
	onservation Division	Incident ID District RP	
		Facility ID	
		Application ID	
I hereby certify that the information given above regulations all operators are required to report an public health or the environment. The acceptance failed to adequately investigate and remediate co addition, OCD acceptance of a C-141 report doe and/or regulations. Printed Name: Larry Baker Signature: Larry Baker email: larry.baker@apachecorp.co	nd/or file certain release notifications and p ce of a C-141 report by the OCD does not r ontamination that pose a threat to groundwa so not relieve the operator of responsibility Title: Env	perform corrective actions for releases where the operator of liability should the ater, surface water, human health or the operator.	hich may endanger eir operations have environment. In
OCD Only			

Oil Conservation Division

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 items must be included in the closure report.

A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

 \checkmark Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Title: Environmental Specialist Sr.

Printed Name: Larry Baker

Page 6

Signature:Larry BakesDate:08/21/2024email:larry.baker@apachecorp.comTelephone:432-250-8384

Telephone: 432-250-8384

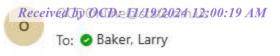
OCD Only

Received by:

Date:

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:	Date:
Printed Name:	Title:



To whom it may concern (c/o Larry Baker for APACHE CORPORATION),

The OCD has rejected the submitted Application for administrative approval of a release notification and corrective action (C-141), for incident ID (n#) nAB1629936433, for the following reasons:

- The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than 1/2 mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater.
- Horizontal and vertical delineation submitted was incomplete and did not meet the requirements of 19.15.29.11 NMAC. The values for determination of horizontal impact are derived by either approved "background" values or Table I Closure Criteria for releases where groundwater is at a depth of 50 feet or less. This is especially important for "on-pad" releases to ensure the release did not extend to the "offpad"/pasture area. A visual footprint on the surface is not sufficient to assess the horizontal extent of the release. Laboratory data must be provided as evidence of delineation efforts. Any sample exceeding approved "background" values or Table I Closure Criteria for releases where groundwater is at a depth of 50 feet or less requires additional samples for horizontal delineation.
- Submit report via the OCD permitting portal by 5/18/2023.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 167476.

Please review and make the required correction(s) prior to resubmitting.

If you have any guestions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you, Ashley Maxwell Projects Environmental Specialist - A 505-635-5000 Ashley.Maxwell@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505

Released to Imaging: 12/5/2024 9:14:11 AM

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Thu 2/16/2023 10:34 AM



Desert Sand Water Well Services, LLC.

fo	Customer:				Phone:	Date:					
General / Well Info		ack Dispos	al/Apache	e Corp.	575-631-9586 8/3/21						
al/V	Well Name:		alanan marakan ang ang ang ang ang ang ang ang ang a		Location:						
Gener:	WASHIN	IGTON 33	STATE #	64							
	DE	PTH	T								
	FROM	TO	THICKNESS (feet)	COLOR	AND TYPE OF MATERIAL ENCOUNTERED - IN BEARING CAVITIES OR FRACTURES	ICLUDE WATER					
	0	3	3		TOP SOIL						
	3	21	18		CALICHE / CONGLOMERATE ROCK						
	21	41	20		RED SAND						
	41	61	20		RED SAN/ RED CLAY STRINGERS / RC	OCK					
	61	81	20		RED SAND / RED CALY STRINGER	S					
	81	91	10								
	91	104	13		TAN SAND						
	and a second	No. Second									
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VE											
					HOLE WAS LEFT OPEN 72 HOURS THEN C						
OF	- the second				THE BORE HOLE WAS DRY AFTER 72 HOURS.						
LOG		Province and Provi			ED FROM THE BOTTOM OF THE HOLE TO						
[]		a and a second sec		CI	LEAN NATURAL FILL AND 3/8 HOLE PLUG	ON 8/6/21.					
				and an end of the		-14-5-					
			Stand State								
			L.E.S.								
		A. S. harren	a a construction and a construction of the con								
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		The second se									
	1		1								

Soil Bore Report

1118 West Broadway Place

.

Red Lake 28 K State Battery

alsa/0,

USGS 324724104082301

8151 ft

Google Earth

•

Imagery Date: 12/21/2019 lat 32.835998° lon -104.239269° elev 3511 ft eye alt 39402 ft



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

 Data Category:
 Geographic Area:

 Groundwater
 ✓

 Government
 ✓

Click to hideNews Bulletins

- Please see news on new formats
- <u>Full News</u> 🔊

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 324724104082301

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 324724104082301 17S.28E.35.42233

 Available data for this site
 Groundwater: Field measurements
 ✓
 GO

 Eddy County, New Mexico
 Hydrologic Unit Code 13060011

 Latitude 32°47'24", Longitude 104°08'23" NAD27

 Land-surface elevation 3,659 feet above NGVD29
 The depth of the well is 280.00 feet below land surface.
 This well is completed in the Rustler Formation (312RSLR) local aquifer.

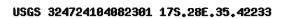
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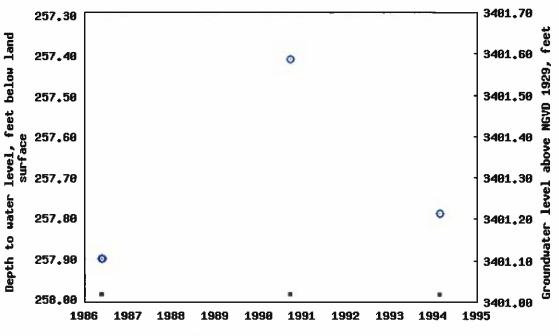
Tab-separated data

Graph of data

Received by OCD: 11/19/2024 12:00:19 AM

Reselect period





Period of approved data

Breaks in the plot represent a gap of at least one year between field measurements.

Download a presentation-quality graph

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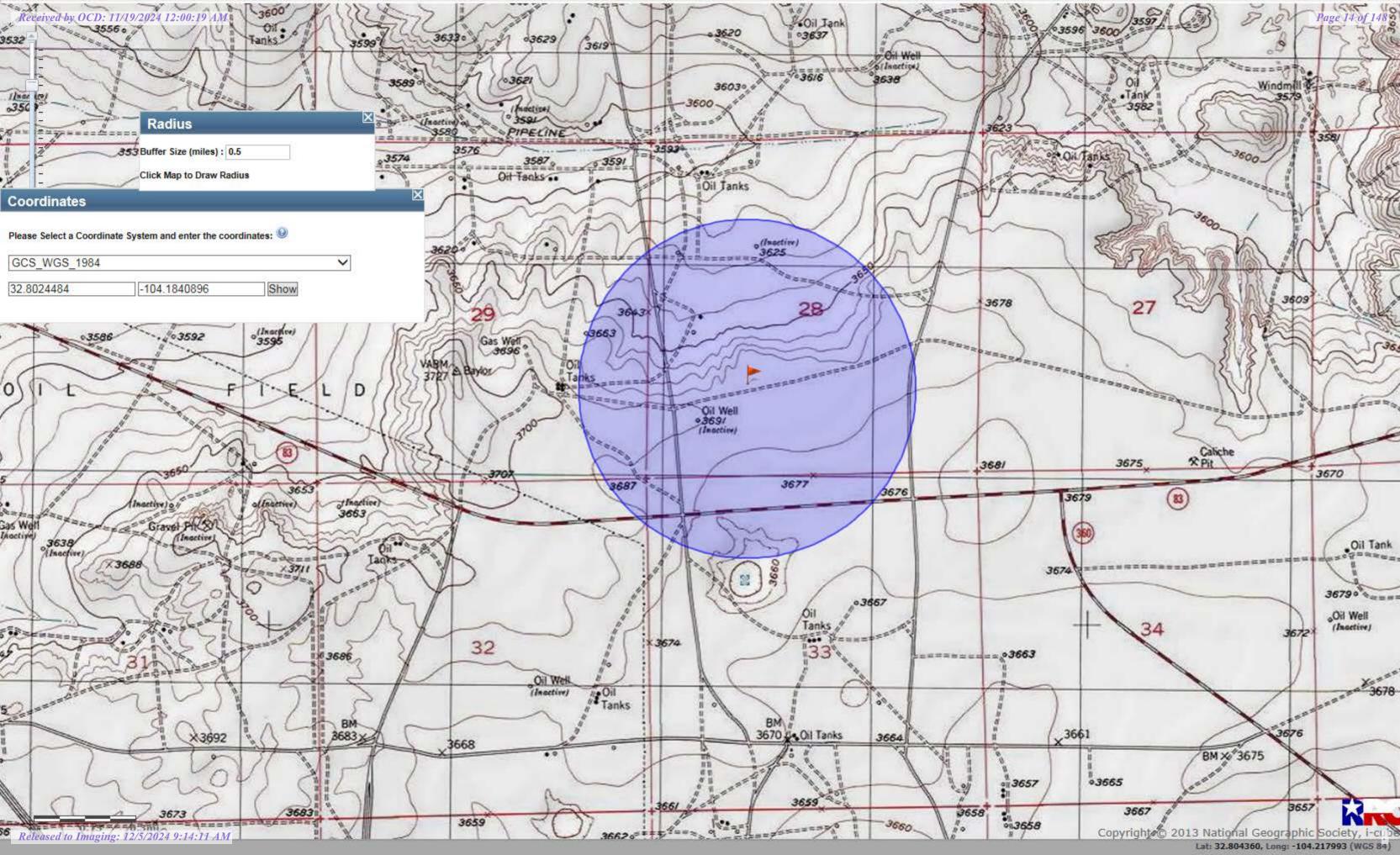
USA.gov

Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for New Mexico: Water Levels URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: <u>New Mexico Water Data Maintainer</u> Page Last Modified: 2018-12-03 16:31:20 EST 1.05 0.92 nadww01

Page 13 of 148





Sample	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenz	Total	Total	GRO	DRO	EXT DRO	GPS
Date			Lab			ene	Xylenes	BTEX				Coordinates
7/31/2024	B2	0-3"		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
	B3	0-3"		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	34.8	24.6	
												32.8024917
	W2	0-3"		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-104.1837161
												32.8024253,
	W6	0-3"		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-104.1838170

Additional Final Samples taken on 7/31/2024



August 06, 2024

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

HOBBS, NM 88240

RE: RED LAKE 28 STATE "K" BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/31/24 16:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/06/2024	Sampling Type:	Soil
Project Name:	RED LAKE 28 STATE "K" BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	NOT GIVEN		

Sample ID: B 2 @ 0-3" (H244580-01)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	1.94	97.2	2.00	0.851	
Toluene*	<0.050	0.050	08/01/2024	ND	1.92	96.1	2.00	1.45	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	1.95	97.3	2.00	2.47	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	5.77	96.2	6.00	3.11	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4 9	% 71.5-13	4						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2024	ND	187	93.6	200	7.06	
DRO >C10-C28*	<10.0	10.0	08/06/2024	ND	193	96.4	200	6.39	
EXT DRO >C28-C36	<10.0	10.0	08/06/2024	ND					
Surrogate: 1-Chlorooctane	74.1 9	48.2-13	4						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/06/2024	Sampling Type:	Soil
Project Name:	RED LAKE 28 STATE "K" BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	NOT GIVEN		

Sample ID: B 3 @ 0-3" (H244580-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	1.94	97.2	2.00	0.851	
Toluene*	<0.050	0.050	08/01/2024	ND	1.92	96.1	2.00	1.45	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	1.95	97.3	2.00	2.47	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	5.77	96.2	6.00	3.11	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 71.5-13	24						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	187	93.6	200	7.06	
DRO >C10-C28*	34.8	10.0	08/01/2024	ND	193	96.4	200	6.39	
EXT DRO >C28-C36	24.8	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	104 9	48.2-13	24						
Surrogate: 1-Chlorooctadecane	120 9	% 49.1-14	18						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/06/2024	Sampling Type:	Soil
Project Name:	RED LAKE 28 STATE "K" BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	NOT GIVEN		

Sample ID: W 2 BGS 0-3" (H244580-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	1.94	97.2	2.00	0.851	
Toluene*	<0.050	0.050	08/01/2024	ND	1.92	96.1	2.00	1.45	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	1.95	97.3	2.00	2.47	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	5.77	96.2	6.00	3.11	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 71.5-13	4						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/06/2024	ND	187	93.6	200	7.06	
DRO >C10-C28*	<10.0	10.0	08/06/2024	ND	193	96.4	200	6.39	
EXT DRO >C28-C36	<10.0	10.0	08/06/2024	ND					
Surrogate: 1-Chlorooctane	76.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.8	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/31/2024	Sampling Date:	07/31/2024
Reported:	08/06/2024	Sampling Type:	Soil
Project Name:	RED LAKE 28 STATE "K" BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	NOT GIVEN		

Sample ID: W 6 BGS 0-3" (H244580-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2024	ND	1.94	97.2	2.00	0.851	
Toluene*	<0.050	0.050	08/01/2024	ND	1.92	96.1	2.00	1.45	
Ethylbenzene*	<0.050	0.050	08/01/2024	ND	1.95	97.3	2.00	2.47	
Total Xylenes*	<0.150	0.150	08/01/2024	ND	5.77	96.2	6.00	3.11	
Total BTEX	<0.300	0.300	08/01/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2024	ND	187	93.6	200	7.06	
DRO >C10-C28*	<10.0	10.0	08/01/2024	ND	193	96.4	200	6.39	
EXT DRO >C28-C36	<10.0	10.0	08/01/2024	ND					
Surrogate: 1-Chlorooctane	87.2	48.2-13	4						
Surrogate: 1-Chlorooctadecane	105 9	49.1-14	8						

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

analyses. All claims including those for negligence and any other cause whatcover shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applical service. In no event shall Cardinal be label for incidental or consequential damages, including whom timitation, business interruptors, loss of use, or loss of profis incurred by clerit, its subsidiaries, artificates or whether such claim is based upon any of the above stated res. "The subsidiaries of the be." "The cardinal regardless of whether such claim is based upon any of the above stated res." The subsidiaries, are effectived By: Relinquished By: Date: Time: Yes, Yes, Parket V: "Thall Result: All Result: All Result: All Result: Stated res." You of hereiter and the stated res." You of hereiter and the stated res." You of hereiter and the stated res. "You of hereiter and the stated res." You of hereiter and the stated res.	PLEASE NOTE: Liability and Damages. Cardinal's	3 W2 865	0000		FOR LAB USE ONLY	Project Location: Ked	Project Name:	Project #:	Phone #:	ess	lanager:		101 East N (575) 393
and any other cause whatsoever shall be deen dental or consequential damages, including with te.b. "rmance of services hereunder by Cardio Date: "////// Date: "////// Date: "///// Date: "///// Date: "///// Date: "///// Corrected Temp. °C	Inability and client's exclusive remedy for any cle	8650-3" < 3650-3" C	0-3" C	.D	Se alusal	Lake 28 Strk		Project Owner:	M	\$	e Baker	che	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
Creates whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the equential damages, including without limitation, business interruptions, loss of use, or loss of profile incurred by clarif, its substatiates or dimensions Date: 70/1/2 Received By: It Result is substatiates Time: 70/1/2 Received By: It Result is substatiates 0 70/1/2 Received By: It Result is substatiates 10 70/1/2 Received By: It Result is substatiates 11 70/1/2 Received By: It Result is substatis substatiates	Inf's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the			# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :	Fax #:	" Battery Ph		City	Zip: 8820 Attn:		P.O.		מס
eb by Cardinal within 30 days after es, or loss of profis incurred by cl lupon any of the above stated rea (Initials)	shall be limited to the amount paid		1 1/31	ACID/BASE: ICE / COOL OTHER :		Phone #:	re: Zip:	Address: City:		Company:	0. #:	BILL TO	
days after completion of the applicable armed by client, its subsidiaries, stated res. workshows Vorbal Result: Ves All Recults are emailed. Plance: Vorbal Result: Ves No Add'I Phone #: All Recults are emailed. Please provide Email address: I: Standard It address: C: No Add'I Phone #: Turmaround Time: Standard Bacteria Concertion Earlor: Rush Cool Int Thermometer ID #140 Yes	add by the client for the	4:202	3.56	THE TIME EXT		τ _P ,	41		* 2 *				
NV (only act	· · · ·											ANALYSIS REQUEST	a A
Sample Condition												TST	

Received by OCD: 11/19/2024 12:00:19 AM

Page 7 of 7





July 30, 2021

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

RE: 2RP-3960, 2RP-3961 Red Lake 28 K State 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 October 4 and 11, 2016. Apache is respectfully submitting the deferment request based on remediation and studies occurring in 2021.

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

Larry Baker Environmental Technician SR. Apache Corporation

Attachment: Closure Report Dated July 30, 2021.



303 Veterans Airpark Lane Midland, TX 79705

Deferment Request

July 30, 2021

Re: Red Lake 28 State K Battery Case # 2RP-3960, 2RP-3961

On 10/04/2016 a release occurred due to a nipple corroded. On 10/11/2016 a release occurred due to a pin hole developed in the steel circulating tank. The release (GPS: 32.8027039, -104.1840439) is west of Artesia, New Mexico in unit letter K section 28 township 17S range 28E. A groundwater survey was conducted utilizing NMOSE and USGS wells of record. The nearest well suggest that groundwater beneath the release to be 257 feet below ground surface.

On 1/15/2020 the release area east of the battery was excavated to a depth of 7 feet below ground surface. Final 5 point bottom and wall composite samples were collected and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Laboratory results were above table one standards W1 for TPH. On 1/22/2020 and 2/11/2020 W1 was further excavated and a final 5 point wall composite sample was submitted to a commercial laboratory results were below table one standards on the sample submitted on 2/11/2021.

On 6/22/2021 delineation samples were collected inside the battery, the pasture area to the south and the top 4 feet for W4 and W5 associated with the 7 feet excavation. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. The pasture area south of the battery was excavated to a depth of 3 feet. On 7/13/2021 final 5 point bottom and wall samples were collected not to exceed 200 square feet. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Once all laboratory results were below table one standards and reclamation standards the 7 foot excavation was backfilled with clean imported caliche to ground surface and the pad restored. The 3 foot excavation in the pasture was backfilled with clean imported top soil to ground surface and contoured to the surrounding area. The pasture area will be reseeded NMSLO Loamy seed mixture.

Apache respectfully request deferment of the release are inside the battery until system abandonment.

Enclosed: C-141, Maps, Sample Data, Laboratory Results, Photos and Revegetation and Noxious Weed Plan.

Submitted by;

Environmental Technician SR. larry.baker@apachecorp.com Cell# 432-631-6982

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I S. First St., Artesia, NM 88210 strict 111		• 6 1	/							•
00 Rio Brazos Road, Aztec, NM 87410 strict IV				rvation Pivision h St. Francis Dr.		Submit 1 Copy to appropriate District accordance with 19.15.2 RECEIVED			.29 NMAC.	
20 S. St. Francis Dr., Santa Fe, NM 87505		Sa	anta F	e, NM 875	505					
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District I 1625 N. French Pr., Hobbs, NM 88240		New Mex	100	ARTESIA DIS	FORM C-141
District II Energ S11 S. Füst St., Artesia, NM 88210	y Minerals a	and Natura	l Resources	OCT 24	
211 9. Litar 21. Micesia, 1414 00210			1		Copy to appropriate District Office in accordance with 19.15.29 NMAC.
1000 Rio Brazos Road, Aztec, NM 87410 District IV	1220 South	St. Franc	is Dr.	RECEIV	accordance with 19.15.29 NMAC.
1220 S. St. Francis Dr., Santa Fe, NM 87505	Oil Conser 1220 South Santa Fe	, NM 875	Ω5		
Release No	tification	i and Co	prrective A	ction	
NAB1629941525	4	OPERA	FOR		Initial Report 🔲 Final Report
Name of Company: Apache Corporation		Contact Br	ice Baker	· · · · · · · · · · · · · · · · · · ·	
Address: 2350 W Marland Blvd Hobbs, NM 88240		Telephone]	<u>la. (432) 63 -(</u>	5982	
Facility Name Red Lake K State # 1 Battery	Į	Facility Typ	e: Battery		
Surface Owner State Min	eral Owner	16 4		AP	'I No. 30-015-33740
	OCATION	N OF RE	LEASE		
Unit Letter Section Township Range Feet from	the North/	South Line	Feet from the	East/West L	
K 28 17S 28E 1650	FSL		1650	FWL	Eddy
Latitude	N32.8027039	9 Longitud	• <u>W104,184043</u>	<u>9</u>	I,
	NATURE	11 1	,	-	
Type of Release: Oil			Release 200 ba	rrels Volu	me Recovered 170 barrels of Oil
Source of Release: Oil Tank	- <u> </u>		lour of Occurrence		and Hour of Discovery /2015 at 1:00 p.m.
Was Immediate Notice Given?		IFYES, To		10/4	/2015 at 1.00 p.m.
	Not Required		her (NMOCD)		
By Whom? Bruce Baker Was a Watercourse Reached?			lour 10/4/2016 vi		
Yas a Walercourse Reached?		liaran	lume Impacting		
If a Watercourse was Impacted, Describe Fully.*					
Describe Cause of Problem and Remedial Action Taken. A release occurred due to a 4"X2" swedge nipple connection were dispatched to pick-up standing oil.	n between the	oil tạnk and g	drain/circulating	ine corroded.	The tank was isolated and trucks
Describe Area Affected and Cleanup Action Taken.* The er	ntire release wa	as contained	to the secondary	containment b	erm and the swedge nipple was
replaced.	die einstein.	1 1.1.1			
I hereby certify that the information given above is true and	complete to 41	a hast of	knowladae and w	ndorstand the	nurement to NMOOD miles and
regulations all operators are required to report and/or file cer	rtain release no	otifications a	nd perform correct	tive actions fo	or releases which may endanger
public health or the environment. The acceptance of a C-14	1 report by the	NMOCD m	arked as "Final R	eport" does no	ot relieve the operator of liability
puone nouna of the environment. The needplanee of a C-14	e and remediate	e contaminati	on that pose a thr	eat to ground	water, surface water, human health
should their operations have failed to adequately investigate	C-141 monore de			an o Hai O HILV	
should their operations have failed to adequately investigate or the environment. In addition, NMOCD acceptance of a C	C-141 report de			,	
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Received by OCD: 11/19/2024 12:00:19 AM Form C-141 State of New Mexico

Oil Conservation Division

	Page 28 of 148
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?	(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 vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
 Field data
- $\overline{\mathbf{\nabla}}$ Data table of soil contaminant concentration data
- \checkmark Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- ✓ Topographic/Aerial maps
- ☑ Laboratory data including chain of custody

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

Received by OCD: 11/19/2024 12:00:19 AM Form C-141 State of New Mex		ico	Page 29 of 14	
Page 4	Oil Conservation Div		Incident ID	
	On Conservation Division	VISIOII	District RP	
			Facility ID	
			Application ID	
regulations all operators are rec public health or the environment failed to adequately investigate addition, OCD acceptance of a and/or regulations. Printed Name: Larry Bak	ation given above is true and complet quired to report and/or file certain rel nt. The acceptance of a C-141 report and remediate contamination that p C-141 report does not relieve the op Cer Baker achecorp.com	lease notifications and perform of t by the OCD does not relieve th ose a threat to groundwater, surf perator of responsibility for comp <u>Title:</u> Environm	corrective actions for relea ne operator of liability sho face water, human health pliance with any other fed ental Tech SR.	ases which may endanger ould their operations have or the environment. In

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Oil Conservation Division

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation 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) 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. \checkmark 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. Title: Environmental Tech SR. Printed Name: Larry Baker Signature: Larry Baker Date: 7/30/2021 Telephone: 432-631-6982 email: larry.baker@apachecorp.com **OCD Only** Received by: Date: Approved Approved with Attached Conditions of Approval Denied Deferral Approved Signature: Date:

Red Lake 28 K State Battery

all sa la .

USGS 324724104082301

8151 ft

Google Earth

•

lat 32.835998° lon -104.239269° elev 3511 ft eye alt 39402 ft



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

 Data Category:
 Geographic Area:

 Groundwater
 ✓

 Government
 ✓

Government
Gove

Click to hideNews Bulletins

- Please see news on new formats
- <u>Full News</u> 题

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 324724104082301

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 324724104082301 175.28E.35.42233

 Available data for this site
 Groundwater: Field measurements
 ✓
 GO

 Eddy County, New Mexico
 Hydrologic Unit Code 13060011

 Latitude 32°47'24", Longitude 104°08'23" NAD27

 Land-surface elevation 3,659 feet above NGVD29
 The depth of the well is 280.00 feet below land surface.
 This well is completed in the Rustler Formation (312RSLR) local aquifer.

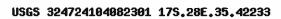
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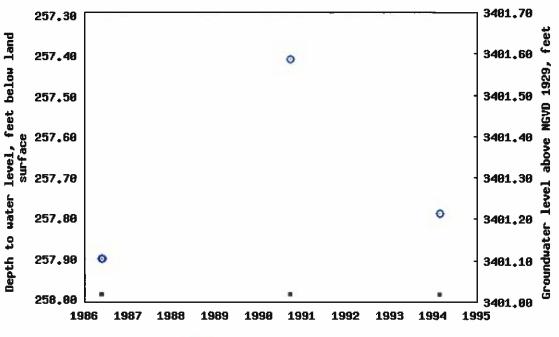
Tab-separated data

Graph of data

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Reselect period





Period of approved data

Breaks in the plot represent a gap of at least one year between field measurements.

Download a presentation-quality graph

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

Accessibility Plug-Ins FOIA Privacy

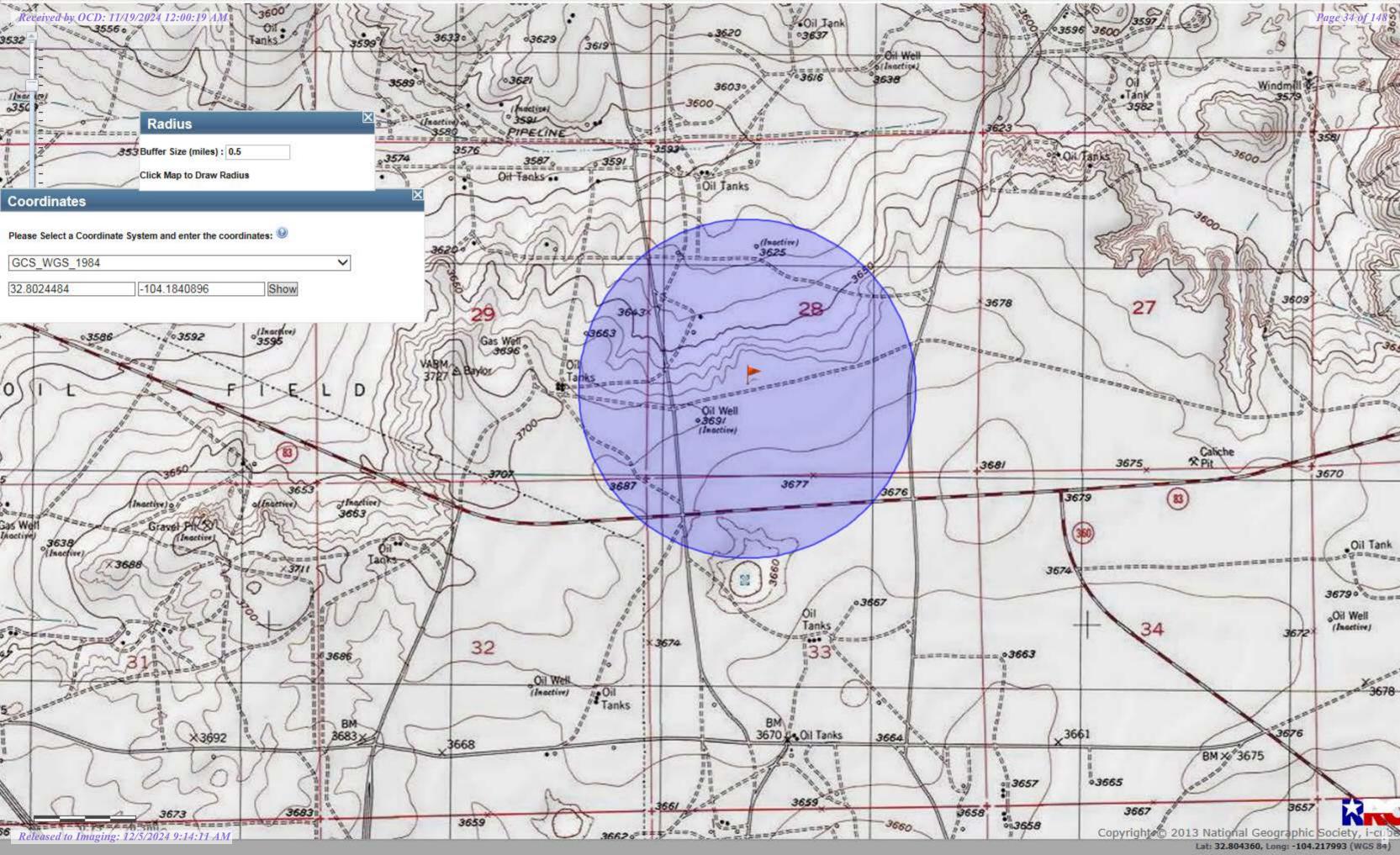
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Page 33 of 148





Google Earth



					Final Sam	ples 2021					
Sample	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenze	Total	Total	GRO	DRO	EXT DRO
Date			Lab			ne	Xylenes	BTEX			
6/21/2021	SP 6 W1	0-4'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	24.5	<10.0
6/21/2021	SP 6 B1	4'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/21/2021	SP6 B2	4'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	64.4	<10.0
6/21/2021	SP6 B2	4'	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	71.8	<10.0
6/21/2021	SP 6 B4	4'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	30.1	<10.0
6/21/2021	SP 6 B5	4'	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/21/2021	SP 6 B6	4'	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	81.9	11.5
6/29/2021	SP 6 SP 7	5'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/29/2021		6'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/29/2021		7'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/29/2021		8'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
	SP 6 SP 8	5'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	50.7	28.9
		6'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
		7'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
		8'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/21/2021	SP 5 W2	0-1'	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	75.7	<10.0
6/21/2021	SP 5 B7	0-1'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	10.2	<10.0
6/21/2021	SP 5 B8	0-1'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/21/2021	SP 1	1'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/21/2021	SP 2	1'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/21/2021	SP 3	1'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/21/2021		2'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/21/2021	SP 4	6"	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
7/13/2021	SP 7	1'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	361	133

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	7' Excavation Final Samples											
Sample	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenze	Total	Total	GRO	DRO	EXT DRO	GPS
Date			Lab			ne	Xylenes	BTEX				Coordinates
												32.8024315,
1/15/2020	B1	7'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-104.1837918
												32.8024366,
1/15/2020	B2	7'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-104.1837016
												32.8024388
1/15/2020	W1	0-7'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1010	201	-104.1837918
1/22/2020	W1	0-7'		<0.050	<0.050	<0.050	0.234	<0.300	46.7	1060	217	
												32.8024557
2/11/2020	W1	0-7'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-104.1837865
												32.8024436
1/15/2020	W2	0-7'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	636	95.2	-104.1836973
												32.8024363
1/15/2020	W3	0-7'	304	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-104.1836594
												32.8024138
1/15/2020	W4	0-7'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	889	271	-104.1837047
6/22/2021	W4	1-4'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
												32.8024115
1/15/2020	W5	0-7'	64	<0.050	<0.050	<0.050	<0.150	<0.300	15.4	880	161	-104.1837724
6/22/2021	W5	1-4'	192	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	477	139	
7/6/2021	W5	1-8'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	206	51.9	
7/13/2021	W5	1-8'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
												32.8024318
1/15/2020	W6	0-7'	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	604	157	-104.1838190

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	Surface Compostie Samples											
Sample	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenz	Total	Total	GRO	DRO	EXT DRO	GPS
Date			Lab			ene	Xylenes	BTEX				Coordinates
												32.8024484,
6/22/2021	B1	Surface	96	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	892	260	-104.1840896
	B2	Surface	160									32.8024467,
6/22/2021				<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1110	309	-104.1840641
												32.8024402,
6/22/2021	B3	Surface	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1130	331	-104.1840285
												32.8024448,
6/22/2021	B4	Surface	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	171	52.6	-104.1839719
												32.8024411,
6/22/2021	B5	Surface	112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	817	373	-104.1839420
												32.8024428,
6/22/2021	B6	Surface	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	462	190	-104.1839142
												32.8024484,
6/22/2021	B7	Surface	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-104.1838787
												32.8024650,
6/22/2021	B8	Surface	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	75.4	12.7	-104.1838592
												32.8023303,
6/22/2021	B9	Surface	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	178	67.4	-104.1839625
												32.8023441,
6/22/2021	B10	Surface	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-104.1839273
												32.8023371,
6/22/2021	B11	Surface	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-104.1838847
												32.8023580,
6/22/2021	B12	Surface	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	10.9	<10.0	-104.1838317
												32.8024972,
6/22/2021	NW	Surface	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-104.1839658
												32.8024157,
6/22/2021	SW	Surface	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-104.1839551
												32.8024532,
6/22/2021	WW	Surface	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-104.1838277
												32.80244634,
6/22/2021	EW	Surface	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-104.1841070

Sample	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenz	Total	Total	GRO	DRO	EXT DRO	GPS
Date			Lab			ene	Xylenes	BTEX				Coordinates
												32.802371,
7/7/2021	NW	0-3'	96	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-104.183904
												32.802304,
7/7/2021	SW	0-3'	144	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-104.183883
												32.802360,
7/7/2021	EW	0-3'	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-104.183817
												32.802326,
7/7/2021	WW	0-3'	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-104.183981
												32.8023303,
7/7/2021	B9	3'	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-104.1839625
												32.8023441,
7/7/2021	B10	3'	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-104.1839273
												32.8023371,
7/7/2021	B11	3'	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-104.1838847
												32.8023580,
7/7/2021	B12	3'	112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-104.1838317

3' Excavation Final Composite Samples



January 22, 2020

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

RE: RED LAKE 28 ST K BATTERY

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

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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



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:	01/22/2020	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 1 @ 7' 32.8024315-104.1837918 (H000140-01)

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	01/20/2020	ND	2.03	101	2.00	6.41	
Toluene*	<0.050	0.050	01/20/2020	ND	1.99	99.5	2.00	6.82	
Ethylbenzene*	<0.050	0.050	01/20/2020	ND	2.02	101	2.00	6.58	
Total Xylenes*	<0.150	0.150	01/20/2020	ND	5.85	97.5	6.00	5.67	
Total BTEX	<0.300	0.300	01/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.8	% 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	01/17/2020	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 41-142							
Surrogate: 1-Chlorooctadecane	100	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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:	01/22/2020	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 2 @ 7' 32.8024366-104.1837016 (H000140-02)

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	99.8	% 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	16.0	16.0	01/17/2020	ND	432	108	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	95.7	% 41-142	,						
Surrogate: 1-Chlorooctadecane	98.3	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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:	01/22/2020	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 1 32.8024388-104.1837918 (H000140-03)

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	GC-NC
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	113 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	32.0	16.0	01/17/2020	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2020	ND	224	112	200	0.417	
DRO >C10-C28*	1010	10.0	01/18/2020	ND	229	115	200	2.47	
EXT DRO >C28-C36	201	10.0	01/18/2020	ND					
Surrogate: 1-Chlorooctane	82.7	% 41-142	2						
Surrogate: 1-Chlorooctadecane	95.0	% 37.6-14	7						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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:	01/22/2020	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 2 32.8024436-104.1836973 (H000140-04)

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	102	% 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	01/17/2020	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2020	ND	224	112	200	0.417	
DRO >C10-C28*	636	10.0	01/18/2020	ND	229	115	200	2.47	
EXT DRO >C28-C36	95.2	10.0	01/18/2020	ND					
Surrogate: 1-Chlorooctane	92.2	% 41-142	,						
Surrogate: 1-Chlorooctadecane	98.1	% 37.6-14	7						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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:	01/22/2020	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 3 32.8024363-104.1836594 (H000140-05)

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	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 \$	% 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	304	16.0	01/17/2020	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	90.0	% 41-142							
Surrogate: 1-Chlorooctadecane	94.2	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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:	01/22/2020	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: WALL 4 32.8024138-104.1837047 (H000140-06)

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	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 :	% 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	16.0	16.0	01/17/2020	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2020	ND	224	112	200	0.417	
DRO >C10-C28*	889	10.0	01/18/2020	ND	229	115	200	2.47	
EXT DRO >C28-C36	271	10.0	01/18/2020	ND					
Surrogate: 1-Chlorooctane	85.6	% 41-142							
Surrogate: 1-Chlorooctadecane	103	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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:	01/22/2020	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: WALL 5 32.8024115-104.1837724 (H000140-07)

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*	<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	GC-NC
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	156 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	64.0	16.0	01/17/2020	ND	432	108	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	15.4	10.0	01/18/2020	ND	224	112	200	0.417	
DRO >C10-C28*	880	10.0	01/18/2020	ND	229	115	200	2.47	
EXT DRO >C28-C36	161	10.0	01/18/2020	ND					
Surrogate: 1-Chlorooctane	92.4	% 41-142	2						
Surrogate: 1-Chlorooctadecane	106 9	% 37.6-14	7						

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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:	01/22/2020	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 6 32.8024318-104.1838190 (H000140-08)

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	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	102 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	128	16.0	01/17/2020	ND	432	108	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2020	ND	224	112	200	0.417	
DRO >C10-C28*	604	10.0	01/18/2020	ND	229	115	200	2.47	
EXT DRO >C28-C36	157	10.0	01/18/2020	ND					
Surrogate: 1-Chlorooctane	91.9	% 41-142	2						
Surrogate: 1-Chlorooctadecane	131 9	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Laboratories

Page 51 of 148

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

SS: State: U.X. Zip: SQLO Attn: ##: Fax #: Project Owner: Address: Address: eft Name: Fax #: Project Owner: City: State: Zip: eft Name: Set Location: Address: State: Zip: State: Zip: eft Name: Set Location: Address: State: Zip: State: Zip: eft Name: Set Location: Set A State: Zip: State: Zip: eft Name: Set Coll Sample I.D. Sample I.D. Fax #: Fax
AUbobs State: Utt. Zip: SQUO Attn:: e #: Fax #: Project Owner: City: Address: ct Name: Job I.D. Sample I.D. Sample I.D. Phone #: Sample I.D. b I.D. Sample I.D. GROUNDWATER MATRIX PRESERV. SAMPLING VALUE Sample I.D. GROUNDWATER MATRIX PRESERV. SAMPLING OIL SLUDGE OTHER : SOIL DATE TIME / BUSE ONLY MATRIX PRESERV. SAMPLING / D.D. Sample I.D. OIL DATE TIME
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PLASE NOTE: Liability and Damanes. Cardinals liabuts and relative menety for any claim arisin whether hased in nontrase norther shall be liability to the amount and but the allost forther
analyses. All claims including those for negligence and any other cause whatsoever shall be deened waived unterso and 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, affiliates 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.
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Area Free Area Thermometer ID #37 #//3
inallabsnm.com



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Received by OCD: 11/19/2024 12:00:19 AM

(575) 393-2326 FAX (575) 393-2476		
Company Name: Domacha	ANALYSIS REQUEST	
Project Manager: Juffred Boon		
Address:	Company:	
City: Hobes State: UN Zip: 80240	Attn:	
Fax #:	Address:	
Project #: Project Owner:	City:	
Project Name:	State: Zip:	
Project Location: Red ledke, 28th St Subbury,	, #	
Sampler Name: chill Quarante (In.	Fax #:	
	PRESERV. SAMPLING	
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analyses. All claims including those for negligence and any other cause whatsoever shall be deemed valued unues mude winding and received by Cardinal within 30 days after completion of the applicable service. In one went shall Cardinal be liable for incidental or consequential damages, including without unit and within 30 days after completion of the applicable applicable service. In one went 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, applicable 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 otherways. The performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherways. The performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherways. The performance of services hereunder by Cardinal regardless of whether such claim is based upon any of the above stated reasons or otherways after the second service of the second s	pplicable	
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ר יראואו-טטט א געי ל Cardinal cannot accept verbal chau	ges. Please email changes to celey.keene@cardinallabsnm.com	Ċ



January 29, 2020

JEFFREY BROOM APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS, NM 88240

RE: RED LAKE 28 ST K BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/22/20 15:49.

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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



February 13, 2020

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

RE: RED LAKE 28 ST K BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/11/20 7:32.

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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	02/11/2020	Sampling Date:	02/10/2020
Reported:	02/13/2020	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Mike Snyder
Project Location:	NOT GIVEN		

Sample ID: W 1 @ 7' 32.8024557-104.1837865 (H000402-01)

BTEX 8021B	mg/l	٨g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/12/2020	ND	1.90	95.2	2.00	11.8	
Toluene*	<0.050	0.050	02/12/2020	ND	1.97	98.3	2.00	12.7	
Ethylbenzene*	<0.050	0.050	02/12/2020	ND	1.99	99.5	2.00	11.5	
Total Xylenes*	<0.150	0.150	02/12/2020	ND	5.79	96.5	6.00	11.7	
Total BTEX	<0.300	0.300	02/12/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6 %	6 73.3-12	9						
TPH 8015M	mg/l	٨g	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	02/12/2020	ND	201	101	200	5.43	
DRO >C10-C28*	<10.0	10.0	02/12/2020	ND	199	99.5	200	6.77	
EXT DRO >C28-C36	<10.0	10.0	02/12/2020	ND					
Surrogate: 1-Chlorooctane	86.3 %	6 41-142							
Surrogate: 1-Chlorooctadecane	87.4%	6 37.6-14	7						

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

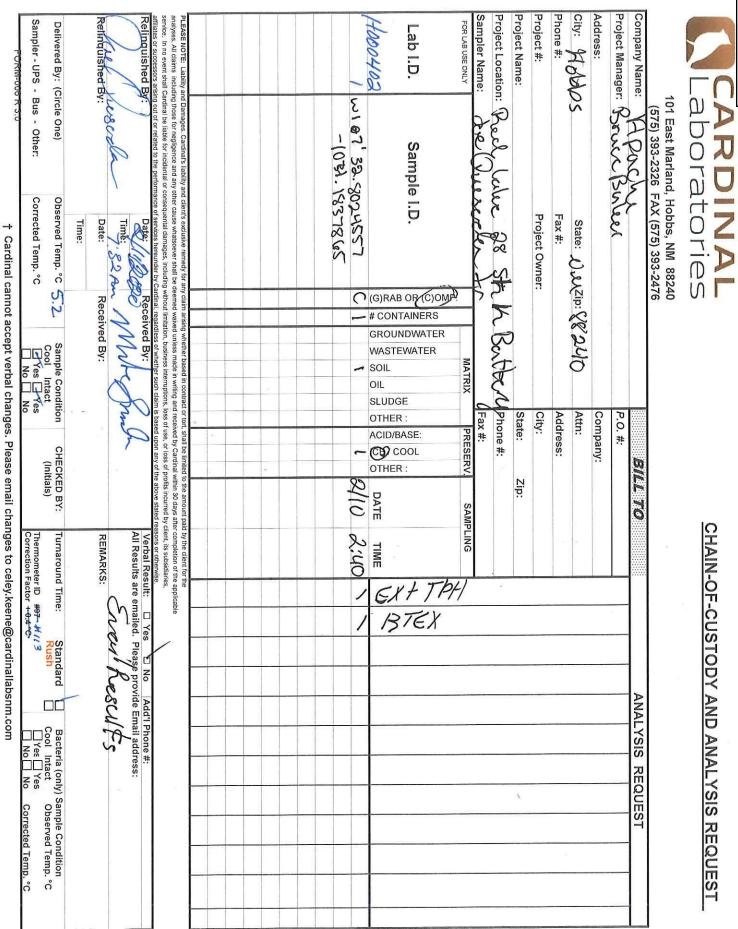
Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 11/19/2024 12:00:19 AM



Page 57 of 148

Page 4 of 4



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

Received:	01/22/2020	Sampling Date:	01/22/2020
Reported:	01/29/2020	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: WALL 1 (H000224-01)

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*	<0.050	0.050	01/27/2020	ND	1.83	91.3	2.00	16.5	
Toluene*	<0.050	0.050	01/27/2020	ND	1.78	89.1	2.00	17.3	
Ethylbenzene*	<0.050	0.050	01/27/2020	ND	1.77	88.7	2.00	17.2	GC-NC
Total Xylenes*	0.234	0.150	01/27/2020	ND	5.22	87.0	6.00	17.3	
Total BTEX	<0.300	0.300	01/27/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	162 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*	46.7	10.0	01/24/2020	ND	205	103	200	2.32	
DRO >C10-C28*	1060	10.0	01/24/2020	ND	216	108	200	2.60	
EXT DRO >C28-C36	217	10.0	01/24/2020	ND					
Surrogate: 1-Chlorooctane	69.8	% 41-142	2						
Surrogate: 1-Chlorooctadecane	80.6	% 37.6-14	!7						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

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Page 60 of 148

Page 4 of 4

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Received by OCD: 11/19/2024 12:00:19 AM

FORM-000 R 3	Delivered By: (Circle One) Sampler - UPS - Bus - Ot	Relinquished By:	Relinguished By:	PLEASE NOTE: Liability and Data analyses. All claims including th service. In no event shall Cardin	20				Lab I.D.	FOR LAB USE ONLY	Sampler Name:	Project Location:	Project Name:	Project #:	Phone #:	city: Habbs	Address:	Project Manager:	Company Name:)
5:0 † Cardinal cannot accept verba	Observed Temp. ℃ <i>、、</i> ゲ her: Corrected Temp. ℃	Time:	anilates or successors and out of or related to the performance or the performance of the	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 applical service. In no event shall be doen incident or tort services, including whether the set of the stability and the cause whatsoever, including without limitations, loss of use, or loss of possible for incident as used analyses, including without limitations, loss of use, or loss or loss of based by client, its substafares, service.					(G)RAB OB-(C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL	MATRIX	Sor Greand or	Red lake 28 St & K Battery		Project Owner:	Fax #:	State:NW Zip: 38240		Jeff Brown	Apache	101 East Mariand, hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
al changes. Please email change	Ares No No	2 Walladder RE	uch claim is based upon any of the above stated reasons	 r contract or tort, shall be limited to the amount paid by the writing and received by Cardinal within 30 days after comp ruptions, loss of use, or loss of profils incurred by client, it is to be a second user or tors of profiles incurred by client, it is to be a second user or tors of the best of the profiles. 				1 /22	OIL SLUDGE OTHER : ACID/BASE: CP/ COOL OTHER : DATE	RIX PRESERV. SAMPLING	Fax #:	Phone #:	State: Zip:	City:	Address:	Attn:	Company:	P.O. #:	BILL TO	
ene@cardinallabsnm.com	Turnaround Time: Standard ⓑ Bacteria (only) Sample Condition Rush □ Cool Intact Observed Temp. °C ThermometerID #97 Correction Factor + 0.4 °C □ No Corrected Temp. °C	en 1	Sunsoromenses. Verbal Result: □ Yes □ No Add'I Phone #: All Résult's are emailed Please provide Email address:	the client for the mplicable mplicable to the second					TIME				7 ,		4				ANALYSIS REQUEST	



June 28, 2021

JEFFREY BROOM APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS, NM 88240

RE: RED LAKE 28 ST K BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/22/21 16:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ SURFACE (H211625-01)

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	06/25/2021	ND	1.98	99.1	2.00	5.73	
Toluene*	<0.050	0.050	06/25/2021	ND	1.92	95.8	2.00	4.89	
Ethylbenzene*	<0.050	0.050	06/25/2021	ND	1.85	92.5	2.00	4.95	
Total Xylenes*	<0.150	0.150	06/25/2021	ND	5.62	93.7	6.00	4.69	
Total BTEX	<0.300	0.300	06/25/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	06/24/2021	ND	416	104	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	06/24/2021	ND	191	95.7	200	2.52	
DRO >C10-C28*	9100	50.0	06/24/2021	ND	217	108	200	0.469	
EXT DRO >C28-C36	3140	50.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	97.8	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	443	% 38.9-14	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 1' (H211625-02)

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	06/24/2021	ND	1.98	99.1	2.00	5.73	
Toluene*	<0.050	0.050	06/24/2021	ND	1.92	95.8	2.00	4.89	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.85	92.5	2.00	4.95	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.62	93.7	6.00	4.69	
Total BTEX	<0.300	0.300	06/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	06/24/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2021	ND	191	95.7	200	2.52	
DRO >C10-C28*	1010	10.0	06/25/2021	ND	217	108	200	0.469	
EXT DRO >C28-C36	391	10.0	06/25/2021	ND					
Surrogate: 1-Chlorooctane	92.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	164 9	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 2' (H211625-03)

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	06/24/2021	ND	1.98	99.1	2.00	5.73	
Toluene*	<0.050	0.050	06/24/2021	ND	1.92	95.8	2.00	4.89	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.85	92.5	2.00	4.95	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.62	93.7	6.00	4.69	
Total BTEX	<0.300	0.300	06/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/24/2021	ND	416	104	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	06/24/2021	ND	191	95.7	200	2.52	
DRO >C10-C28*	62.9	10.0	06/24/2021	ND	217	108	200	0.469	
EXT DRO >C28-C36	12.0	10.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	89.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	97.6	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 7 @ SURFACE (H211625-04)

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	06/25/2021	ND	1.98	99.1	2.00	5.73	
Toluene*	<0.050	0.050	06/25/2021	ND	1.92	95.8	2.00	4.89	
Ethylbenzene*	<0.050	0.050	06/25/2021	ND	1.85	92.5	2.00	4.95	
Total Xylenes*	<0.150	0.150	06/25/2021	ND	5.62	93.7	6.00	4.69	
Total BTEX	<0.300	0.300	06/25/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/24/2021	ND	416	104	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	06/24/2021	ND	191	95.7	200	2.52	
DRO >C10-C28*	9690	50.0	06/24/2021	ND	217	108	200	0.469	
EXT DRO >C28-C36	3070	50.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	87.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	586 9	% 38.9-14	2						

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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 7 @ 1' (H211625-05)

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*	<0.050	0.050	06/24/2021	ND	1.98	99.1	2.00	5.73	
Toluene*	<0.050	0.050	06/24/2021	ND	1.92	95.8	2.00	4.89	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.85	92.5	2.00	4.95	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.62	93.7	6.00	4.69	
Total BTEX	<0.300	0.300	06/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	150	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	06/24/2021	ND	416	104	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*	71.2	50.0	06/24/2021	ND	191	95.7	200	2.52	
DRO >C10-C28*	6210	50.0	06/24/2021	ND	217	108	200	0.469	
EXT DRO >C28-C36	1580	50.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	100	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	368	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 7 @ 2' (H211625-06)

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	06/24/2021	ND	1.98	99.1	2.00	5.73	
Toluene*	<0.050	0.050	06/24/2021	ND	1.92	95.8	2.00	4.89	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.85	92.5	2.00	4.95	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.62	93.7	6.00	4.69	
Total BTEX	<0.300	0.300	06/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	122	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	06/24/2021	ND	416	104	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	06/24/2021	ND	191	95.7	200	2.52	
DRO >C10-C28*	2810	50.0	06/24/2021	ND	217	108	200	0.469	
EXT DRO >C28-C36	813	50.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	93.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	389	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ SURFACE (H211625-07)

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	06/25/2021	ND	1.98	99.1	2.00	5.73	
Toluene*	<0.050	0.050	06/25/2021	ND	1.92	95.8	2.00	4.89	
Ethylbenzene*	<0.050	0.050	06/25/2021	ND	1.85	92.5	2.00	4.95	
Total Xylenes*	<0.150	0.150	06/25/2021	ND	5.62	93.7	6.00	4.69	
Total BTEX	<0.300	0.300	06/25/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/24/2021	ND	416	104	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	06/24/2021	ND	191	95.7	200	2.52	
DRO >C10-C28*	1830	10.0	06/24/2021	ND	217	108	200	0.469	
EXT DRO >C28-C36	763	10.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	69.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	126 9	38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 1' (H211625-08)

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	06/24/2021	ND	1.98	99.1	2.00	5.73	
Toluene*	<0.050	0.050	06/24/2021	ND	1.92	95.8	2.00	4.89	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.85	92.5	2.00	4.95	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.62	93.7	6.00	4.69	
Total BTEX	<0.300	0.300	06/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/24/2021	ND	416	104	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	06/24/2021	ND	191	95.7	200	2.52	
DRO >C10-C28*	1900	50.0	06/24/2021	ND	217	108	200	0.469	
EXT DRO >C28-C36	749	50.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	88.2	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	147	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 2' (H211625-09)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2021	ND	1.98	99.1	2.00	5.73	
Toluene*	<0.050	0.050	06/24/2021	ND	1.92	95.8	2.00	4.89	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.85	92.5	2.00	4.95	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.62	93.7	6.00	4.69	
Total BTEX	<0.300	0.300	06/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/24/2021	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	191	95.7	200	2.52	
DRO >C10-C28*	281	10.0	06/24/2021	ND	217	108	200	0.469	
EXT DRO >C28-C36	96.4	10.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	86.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	111 9	38.9-14	2						

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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ SURFACE (H211625-10)

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	06/24/2021	ND	1.98	99.1	2.00	5.73	
Toluene*	<0.050	0.050	06/24/2021	ND	1.92	95.8	2.00	4.89	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.85	92.5	2.00	4.95	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.62	93.7	6.00	4.69	
Total BTEX	<0.300	0.300	06/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/24/2021	ND	416	104	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	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	<10.0	10.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	78.7	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	77.5	% 38.9-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 1' (H211625-11)

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	06/24/2021	ND	1.98	99.1	2.00	5.73	
Toluene*	<0.050	0.050	06/24/2021	ND	1.92	95.8	2.00	4.89	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.85	92.5	2.00	4.95	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.62	93.7	6.00	4.69	
Total BTEX	<0.300	0.300	06/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/25/2021	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	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	<10.0	10.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	78.3	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	76.6	% 38.9-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 2' (H211625-12)

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	06/24/2021	ND	1.98	99.1	2.00	3.37	
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63	
Total BTEX	<0.300	0.300	06/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/25/2021	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	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	<10.0	10.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	78.3	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	76.2	% 38.9-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ SURFACE (H211625-13)

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	06/24/2021	ND	1.98	99.1	2.00	3.37	
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63	
Total BTEX	<0.300	0.300	06/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/25/2021	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	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	38.6	10.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	17.0	10.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	85.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	86.9	% 38.9-14	2						

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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ 1' (H211625-14)

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	06/24/2021	ND	1.98	99.1	2.00	3.37	
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63	
Total BTEX	<0.300	0.300	06/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/25/2021	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	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	36.8	10.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	19.9	10.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	84.8	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	86.1	% 38.9-14	2						

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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ 2' (H211625-15)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2021	ND	1.98	99.1	2.00	3.37	
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63	
Total BTEX	<0.300	0.300	06/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/25/2021	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	596	50.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	346	50.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	76.2	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	109	% 38.9-14	2						

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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 6 @ SURFACE (H211625-16)

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	06/24/2021	ND	1.98	99.1	2.00	3.37	
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63	
Total BTEX	<0.300	0.300	06/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/25/2021	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	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	2130	10.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	1070	10.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	78.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	120 9	% 38.9-14	2						

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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 6 @ 1' (H211625-17)

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	06/24/2021	ND	1.98	99.1	2.00	3.37	
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63	
Total BTEX	<0.300	0.300	06/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/25/2021	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	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	12.5	10.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	12.5	10.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	81.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	81.0	% 38.9-14	2						

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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 6 @ 2' (H211625-18)

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	06/24/2021	ND	1.98	99.1	2.00	3.37	
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63	
Total BTEX	<0.300	0.300	06/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/25/2021	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	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	<10.0	10.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	73.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	72.0	% 38.9-14	2						

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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 8 @ SURFACE (H211625-19)

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	06/24/2021	ND	1.98	99.1	2.00	3.37	
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63	
Total BTEX	<0.300	0.300	06/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/25/2021	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	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	34.3	10.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	74.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	78.9	% 38.9-14	2						

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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 8 @ 1' (H211625-20)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2021	ND	1.98	99.1	2.00	3.37	
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63	
Total BTEX	<0.300	0.300	06/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/25/2021	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	<10.0	10.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	77.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	77.5	% 38.9-14	2						

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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 8 @ 2' (H211625-21)

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	06/24/2021	ND	1.98	99.1	2.00	3.37	
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63	
Total BTEX	<0.300	0.300	06/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/25/2021	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	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	841	10.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	370	10.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	72.2	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	82.5	% 38.9-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 4 BGS 1-4' (H211625-22)

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	06/24/2021	ND	1.98	99.1	2.00	3.37	
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63	
Total BTEX	<0.300	0.300	06/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/25/2021	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	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	<10.0	10.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	74.8	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	74.7	% 38.9-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 5 BGS 1-4' (H211625-23)

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	06/24/2021	ND	1.98	99.1	2.00	3.37	
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63	
Total BTEX	<0.300	0.300	06/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	06/25/2021	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	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	477	10.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	139	10.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	77.4	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	99.9	% 38.9-14	2						

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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 1 (H211625-24)

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	06/24/2021	ND	1.98	99.1	2.00	3.37	
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63	
Total BTEX	<0.300	0.300	06/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/25/2021	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	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	892	10.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	260	10.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	70.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	91.2	% 38.9-14	2						

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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 2 (H211625-25)

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	06/24/2021	ND	1.98	99.1	2.00	3.37	
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63	
Total BTEX	<0.300	0.300	06/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/25/2021	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	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	1110	10.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	309	10.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	63.7	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	90.5	% 38.9-14	2						

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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 3 (H211625-26)

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	06/24/2021	ND	1.98	99.1	2.00	3.37	
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63	
Total BTEX	<0.300	0.300	06/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/25/2021	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	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	1130	10.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	331	10.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	72.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	98.8	% 38.9-14	2						

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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 4 (H211625-27)

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	06/24/2021	ND	1.98	99.1	2.00	3.37	
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63	
Total BTEX	<0.300	0.300	06/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/25/2021	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	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	171	10.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	52.6	10.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	78.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	87.3	% 38.9-14	2						

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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 5 (H211625-28)

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	06/24/2021	ND	1.98	99.1	2.00	3.37	
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63	
Total BTEX	<0.300	0.300	06/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/25/2021	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	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	817	10.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	373	10.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	86.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	91.1	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 6 (H211625-29)

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	06/24/2021	ND	1.98	99.1	2.00	3.37	
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63	
Total BTEX	<0.300	0.300	06/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/25/2021	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	06/24/2021	ND	228	114	200	1.27	
DRO >C10-C28*	462	10.0	06/24/2021	ND	240	120	200	0.303	
EXT DRO >C28-C36	190	10.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	73.8	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	89.7	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 7 (H211625-30)

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	06/24/2021	ND	1.98	99.1	2.00	3.37	
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63	
Total BTEX	<0.300	0.300	06/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/25/2021	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	06/24/2021	ND	227	113	200	2.02	
DRO >C10-C28*	<10.0	10.0	06/24/2021	ND	210	105	200	0.225	QM-07
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	78.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	79.1	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 8 (H211625-31)

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	06/24/2021	ND	1.98	99.1	2.00	3.37	
Toluene*	<0.050	0.050	06/24/2021	ND	1.91	95.7	2.00	3.47	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.83	91.5	2.00	3.60	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.55	92.4	6.00	3.63	
Total BTEX	<0.300	0.300	06/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 69.9-14	0						
Chloride, SM4500Cl-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	06/25/2021	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*	<10.0	10.0	06/24/2021	ND	227	113	200	2.02	
DRO >C10-C28*	75.4	10.0	06/24/2021	ND	210	105	200	0.225	
EXT DRO >C28-C36	12.7	10.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	80.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	81.9	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 9 (H211625-32)

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	06/24/2021	ND	1.96	98.0	2.00	2.21	
Toluene*	<0.050	0.050	06/24/2021	ND	2.00	100	2.00	6.41	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.91	95.6	2.00	7.07	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.72	95.3	6.00	8.32	
Total BTEX	<0.300	0.300	06/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 69.9-14	0						
Chloride, SM4500Cl-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	06/25/2021	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*	<10.0	10.0	06/24/2021	ND	227	113	200	2.02	
DRO >C10-C28*	178	10.0	06/24/2021	ND	210	105	200	0.225	
EXT DRO >C28-C36	67.4	10.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	81.2	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	88.2	% 38.9-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 10 (H211625-33)

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	06/24/2021	ND	1.96	98.0	2.00	2.21	
Toluene*	<0.050	0.050	06/24/2021	ND	2.00	100	2.00	6.41	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.91	95.6	2.00	7.07	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.72	95.3	6.00	8.32	
Total BTEX	<0.300	0.300	06/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.6	% 69.9-14	0						
Chloride, SM4500Cl-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	06/25/2021	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*	<10.0	10.0	06/24/2021	ND	227	113	200	2.02	
DRO >C10-C28*	<10.0	10.0	06/24/2021	ND	210	105	200	0.225	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	72.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	70.3	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 11 (H211625-34)

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	06/24/2021	ND	1.96	98.0	2.00	2.21	
Toluene*	<0.050	0.050	06/24/2021	ND	2.00	100	2.00	6.41	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.91	95.6	2.00	7.07	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.72	95.3	6.00	8.32	
Total BTEX	<0.300	0.300	06/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.4	% 69.9-14	0						
Chloride, SM4500Cl-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	06/25/2021	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*	<10.0	10.0	06/24/2021	ND	227	113	200	2.02	
DRO >C10-C28*	<10.0	10.0	06/24/2021	ND	210	105	200	0.225	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	76.2	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	76.2	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 12 (H211625-35)

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	06/24/2021	ND	1.96	98.0	2.00	2.21	
Toluene*	<0.050	0.050	06/24/2021	ND	2.00	100	2.00	6.41	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.91	95.6	2.00	7.07	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.72	95.3	6.00	8.32	
Total BTEX	<0.300	0.300	06/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.0	% 69.9-14	0						
Chloride, SM4500Cl-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	06/25/2021	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*	<10.0	10.0	06/24/2021	ND	227	113	200	2.02	
DRO >C10-C28*	10.9	10.0	06/24/2021	ND	210	105	200	0.225	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	82.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	82.0	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: NW (H211625-36)

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	06/24/2021	ND	1.96	98.0	2.00	2.21	
Toluene*	<0.050	0.050	06/24/2021	ND	2.00	100	2.00	6.41	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.91	95.6	2.00	7.07	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.72	95.3	6.00	8.32	
Total BTEX	<0.300	0.300	06/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.9	% 69.9-14	0						
Chloride, SM4500Cl-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	06/25/2021	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*	<10.0	10.0	06/24/2021	ND	227	113	200	2.02	
DRO >C10-C28*	<10.0	10.0	06/24/2021	ND	210	105	200	0.225	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	78.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	78.1	% 38.9-14	2						

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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SW (H211625-37)

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	06/24/2021	ND	1.96	98.0	2.00	2.21	
Toluene*	<0.050	0.050	06/24/2021	ND	2.00	100	2.00	6.41	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.91	95.6	2.00	7.07	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.72	95.3	6.00	8.32	
Total BTEX	<0.300	0.300	06/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 69.9-14	0						
Chloride, SM4500Cl-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	06/25/2021	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*	<10.0	10.0	06/24/2021	ND	227	113	200	2.02	
DRO >C10-C28*	<10.0	10.0	06/24/2021	ND	210	105	200	0.225	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	72.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	71.1	% 38.9-14	2						

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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: WW (H211625-38)

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	06/24/2021	ND	1.96	98.0	2.00	2.21	
Toluene*	<0.050	0.050	06/24/2021	ND	2.00	100	2.00	6.41	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.91	95.6	2.00	7.07	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.72	95.3	6.00	8.32	
Total BTEX	<0.300	0.300	06/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 69.9-14	0						
Chloride, SM4500Cl-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	06/25/2021	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*	<10.0	10.0	06/24/2021	ND	227	113	200	2.02	
DRO >C10-C28*	<10.0	10.0	06/24/2021	ND	210	105	200	0.225	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	73.2	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	72.4	% 38.9-14	2						

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

Received:	06/22/2021	Sampling Date:	06/22/2021
Reported:	06/28/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: EW (H211625-39)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2021	ND	1.96	98.0	2.00	2.21	
Toluene*	<0.050	0.050	06/24/2021	ND	2.00	100	2.00	6.41	
Ethylbenzene*	<0.050	0.050	06/24/2021	ND	1.91	95.6	2.00	7.07	
Total Xylenes*	<0.150	0.150	06/24/2021	ND	5.72	95.3	6.00	8.32	
Total BTEX	<0.300	0.300	06/24/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.6	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/25/2021	ND	432	108	400	3.77	
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	06/24/2021	ND	227	113	200	2.02	
DRO >C10-C28*	<10.0	10.0	06/24/2021	ND	210	105	200	0.225	
EXT DRO >C28-C36	<10.0	10.0	06/24/2021	ND					
Surrogate: 1-Chlorooctane	82.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	81.9	% 38.9-14	2						

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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.
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.
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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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

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101 East Marland, Hobbs, NM	Labora	CARD
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88240	PS	F

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinduished-By Relinquished By Project Manager: analyses. All claims Project Location: Project Name: city: Hobus Company Name: Sampler - UPS - Bus - Other: PLEASE NOTE: 1 Sampler Name: Project #: Phone #: ervice. In no event shall Cardin 4211625 Address: Delivered By: (Circle One) Lab I.D. FOR LAB USE ONLY s 0 5 SP3 SP2 02 SP201 SP70 Sp3 SP2 OSylan SP702 SP7 OSurfue 3 P302 nal be liable PYOSubur T Rec 0 overture Sample I.D. to the pert nce and any other ca which Carre Observed Temp. °C Corrected Temp. Fax #: Date: Time: Time: Project Owner: Date: State: 6 650 R loo 3 ges, including without ver shall be dee UNZip: SVOUC ô Stute N 5.4 0 (G)RAB OR (C)OMP Received By: Received By: Detu limitation, bus waived unless made in writing and recei **# CONTAINERS** GROUNDWATER Sample Condition Cool Intact unara WASTEWATER Schery MATRIX SOIL OIL SLUDGE Phone #: City: OTHER State: Fax #: Attn: Company: P.O. #: Address: of use, or loss of profits incu led by Cardinal ACID/BASE PRESERV ICE COOL CHECKED BY: (Initials) BILL 9 within 30 days after completion of the applicable Zip 6 DATE 10 3 SAMPLING red by client, its subsidiaries aid by the client fr 1:04 2:04 2:02 Correction Factor None Turnaround Time: All Results are emailed. Please provide Email address. 2:00 HI: H 1:05 Thermometer ID #113 REMARKS: Verbal Result: ons or oth TIME for the Yes Ext TPH Rush Standard BIEX ON D PB ANALYSIS REQUEST Add'l Phone #: ☐ Yes ☐ Yes ☐ Nc ☐ No Bacteria (only) Sample Condition Cool Intact Observed Temp. Corrected Temp. °C Observed Temp. °C

Received by OCD: 11/19/2024 12:00:19 AM

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Page 102 of 148

Page 103 of 148

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished By: Project Manager: Relinquished By: Project Name: city: Hobbos Sampler Name: Project Location: Project #: Phone #: Company Name: Sampler - UPS - Bus - Other: ervice. In no event shall Cardinal be liable Address Delivered By: (Circle One) nalyses. All LEASE NOTE: FOR LAB USE ONLY 5291184 Lab I.D Cruer SUN 0 5 È 8 1 SP4021 SPS @2' SP5-01 SPG QQ' SP8 QSurture SPle OSurface SPH Q SPGQ out of or related to the perfo hed SPR (575) 393-2326 FAX (575) 393-2476 Puc Brown for incidental Sample I.D: Ø ence and any other ulue V Corrected Temp. Observed Temp. °C 11 Time: Fax #: Project Owner: Date: State: NULZip: 88200 Cardinal cannot accept verbal changes. Please email changes to celey keene@cardinallabsnm.com tene U U shall be dee ĉ without 5 (G)RAB OR (C)OMP 2 Received By: Received By: -**# CONTAINERS** Batche lation, bus red unless made in writing and received GROUNDWATER Sample Condition Cool Intact WASTEWATER MATRIX SOIL OIL SLUDGE . ns, loss of use, or loss of profits incurred by client, its subsidiaries State: City: OTHER Attn: Fax #: Phone #: Address: Company: P.O. #: red by Cardinal within 30 days after completion of the applicable ACID/BASE PRESERV CHECKED BY: ICE / COOL f. (Initials) OTHER BILL Zip: 6 DATE 102 10 2 SAMPLING 2:08 2:26 2:24 91:14 2:20 2:19 Verbal Result:
Ves
No Add'l Phone #:
All Results are emailed. Please provide Email address: Correction Factor None Turnaround Time: Thermometer ID REMARKS: TIME × Λ X #113 X TPH Standard Rush BTE ANALYSIS REQUEST Ves Yes Bacteria (only) Sample Condition Cool Intact Observed Temp. Corrected Temp. °C ĉ

Released to Imaging: 12/5/2024 9:14:11 AM

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinguished By: Company Name: A Puch Refuduished By Sampler Name: Project Location: Project Name: city: Mobolos Project #: Phone #: Project Manager: Sampler - UPS - Bus - Other: ervice. In no event shall Cardinal be liable for inalyses. All claims Address Delivered By: (Circle One) LEASE NOTE: F と FOR LAB USE ONLY Lab I.D 11625 20 te 20 8 S an 2 8 including those for neglige 8 E C 8 E SPE and CARA MUSA here Ra Sample I.D Broom Law 1-4 Pr (Observed Temp. °C Corrected Temp. Fax #: 20 Project Owner: Time: Date: ī Jale. State Hand Lip: & Dulo State & Rathery 50 , including shall be dee റ് 5 without limitation, business inte 00 (C)OMP \mathcal{O} (G)RAB OR 0 Received By: Received By: 2 # CONTAINERS ived unless made in writing and rec GROUNDWATER Cool Intact Yes Yes Sample Condition WASTEWATER MATRIX SOIL 1 DIL SLUDGE loss of use, or loss of profits State: P.O. #: OTHER City: Phone #: Attn: Fax #: Address: Company: ACID/BASE PRESERV. ed by Cardinal ICE COOL CHECKED BY: (Initials) BILL OTHER 0 Zip 6 6 30 days DATE 10 8 SAMPLING red by client, its subsidiaries after 3:34:35 3:32 Sie Thermometer ID #113 Correction Factor None Turnaround Time: All Results are emailed. 3:30 REMARKS 2:30 Shic Shic 2:28 Verbal Result Site TIME tion of the app C × TPH Yes × Ex Standard Rush BTEX Please provide Email address: 3 ON D ANALYSIS Add'l Phone #: Bacteria (only) Sample Condition Cool Intact Observed Temp. Ves Yes Nc No Corrected Temp. REQUEST Observed Temp. °C Corrected Temp. റ്

Received by OCD: 11/19/2024 12:00:19 AM

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Page 44 of 45

(575) 393-2326 FAX (575) 393-2476	BILL TO	IVNV	ANALVSIS REDITEST
Project Manager: WHA Brewen			
Address:	Company:		
city: FULA State: WU Zip. State	Attn:		
Fax #:	Address:		
Project #: Project Owner:	City:		
Project Name:	State: Zip:		
Project Location: Ruel Lulu nor Stute h Bat	Phone #:		
she dr.	Fax #:	4	20 ¹
	PRESERV. SAMPLING	7	
C)OM) ERS		+	
		CL SNI BTE	
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601	Shi S		
	No. C		
28 mm	3:54		
3960	5		
y and client's exclusive rem ny other cause whatsoever	e in writing and received by Cardinal within 30 days after completion	ient for the applicable	
affiliates or successors arising out of or related to the performance of services to:counder by Curdinal, regardless of whether such claim in Relinquished, By: Date:/ Received By:	nder by Cardinal regardless of whether such claim is based upon any of the above stated reasons or otherwise. Received By: Verbal Resu	ons or otherwise. Verbal Result: Ves No Add'I F	Add'I Phone #:
Sulfered These Jamara	All Results	All Results are emailed. Please provide Email address:	ail address:
Time:			
Delivered By: (Circle One) Observed Temp. °C Sample Condition Sampler - UPS - Bus - Other: Corrected Temp. °C Cool Intact	(Initials)	Turnaround Time: Standard U Themometer ID #113	Bacteria (only) Sample Condition Cool Intact Observed Temp °C

Page 105 of 148



July 07, 2021

JEFFREY BROOM APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS, NM 88240

RE: RED LAKE 28 ST K BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/06/21 16:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	07/06/2021	Sampling Date:	07/06/2021
Reported:	07/07/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	RED LAKE 28 K STATE BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 5 (H211734-01)

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	07/07/2021	ND	2.08	104	2.00	5.81	
Toluene*	<0.050	0.050	07/07/2021	ND	2.21	111	2.00	8.03	
Ethylbenzene*	<0.050	0.050	07/07/2021	ND	2.11	105	2.00	7.44	
Total Xylenes*	<0.150	0.150	07/07/2021	ND	6.27	104	6.00	8.42	
Total BTEX	<0.300	0.300	07/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	69.9-14	0						
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	07/07/2021	ND	199	99.6	200	1.73	
DRO >C10-C28*	206	10.0	07/07/2021	ND	215	107	200	2.21	
EXT DRO >C28-C36	51.6	10.0	07/07/2021	ND					
Surrogate: 1-Chlorooctane	91.8	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	111 9	6 38.9-14	•						

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*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/06/2021	Sampling Date:	07/06/2021
Reported:	07/07/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	RED LAKE 28 K STATE BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 7 @ 3' (H211734-02)

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	07/07/2021	ND	2.08	104	2.00	5.81	
Toluene*	<0.050	0.050	07/07/2021	ND	2.21	111	2.00	8.03	
Ethylbenzene*	<0.050	0.050	07/07/2021	ND	2.11	105	2.00	7.44	
Total Xylenes*	<0.150	0.150	07/07/2021	ND	6.27	104	6.00	8.42	
Total BTEX	<0.300	0.300	07/07/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	69.9-14	0						
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	07/07/2021	ND	199	99.6	200	1.73	
DRO >C10-C28*	<10.0	10.0	07/07/2021	ND	215	107	200	2.21	
EXT DRO >C28-C36	<10.0	10.0	07/07/2021	ND					
Surrogate: 1-Chlorooctane	90.0 9	44.3-13	3						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C

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

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Delivered E Sampler - U	Relinquished By	analyses. All claims including service. In no event shall Car affiliates or successors arising Relinquished By:	PLEASE NOTE:			Lab I.D.	FOR LAB USE ONLY	Sampler Name:	Project Location:	Project Name:	Project #:	Phone #:	City:	Address:	Project Manager:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: FORM-000 R 3.1 00104/2	ed By:	is including those for negligence and the shall Cardinal be liable for incident sors arising out of or rotated to the pr Ied By:	PLEASE NOTE: Liability and Damages Cardinate liabi	5	N D	D.	ONLY	Name:	ocation:	ame: Ke	5		~		lanager:	
ne) Other: 0/04/20	3	or negligence and a liable for incidental r rolated to the pr (f	se Carrinale in Mil	703	5	Sam		OR IYNU	ed las	d lake					Bruc	HUache
Observed Temp. °C Corrected Temp. °C	Time: Date: Time:	analyses. All claims including those for negligence and any other cause whatsovers shall be deened waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In one vent shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of uses, or loss of profits inclured by client, its subsidiaries. affiliates or successors arising out of an or interruption of services hereunder by Cardinal, regardless of whether such claim is based upon any of the atcree clation for otherwise. Relinquished By: Date: <u>12</u> Received By: Verbal Result: C				Sample I.D.		(M	le 28	28	Pro	Fax #:	St		c Bat	Con
	St	cause whateover shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the quental damages, including without limitation, business interruptions, loss of true, or toss of profits indured by client, its subsidiaries of services hereunder by Cardinal, regardless of whether such claim is based upon any cr ⁴ the alt-trie chard ray one or therwise. Date: <u>Perbad Resc</u> <u>Verbad Res</u>							K STATE	0	Project Owner:	#:	State:			peration
の の	Received By	eemed waived unless m without limitation, busineer dinal, regardless of whe Received By:		6	8	(G)RAB OR (C)OMP # CONTAINERS		1			а		Zip:			
	ved	ved uni tation, t ardless				GROUNDWATER			BSTY	BTTY	•					
Sample Condition Cool Intact Wes Pres	By:	ess ma ousines of whe By:				WASTEWATER				X	1	1				
No No No	Da .	s interr ther su		<	~	SOIL	MATRIX									
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dition t No	B	nd rec , loss , n is ba			_	SLUDGE OTHER :		-	-	(0)	0	T	-	0		_
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S S	6	or los				ICE / COOL	RES	**	ne #			ess.	1	Ipar	#	
(Initials)	a Ch	dinal w s of pro y of the				OTHER :	PRESERV.							ıy:		0
(Initials)	×.	ithin 30 days afte ofits incurred by c abc:re ctated re-		7/6/21	7/2/4	DATE				Zip:				1		BILL IO
Turnaround Time: Thermometer ID #113 Correction Factor None	All Results a	shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applit including without limitation, business interruptions, loss of use, or loss of profits inclured by client, its busidariens, - nder by Cardinal, regardless of whether such claim is based upon any cr ⁴ the at-trive tabled raw use or otherwise.				TIME	SAMPLING									A R. C. S.
1 Time: r ID #113 actor None	: are email	e applicable es, • es, •		<	5	BTEX EXT. TPH										
Standard Rush	le	He Yes I No				EXT. TPH				_		. 1				
	provide	o Add'l Ph														ANAL



CHECKED BY: (Initials) ne #: 'ess: pany: or loss of profits incurred by client, its subsidiaries, * RESERV. A.D. Cardinal within 30 days after completion of the applicable be limited to the amount paid by the client for the ICE / COOL OTHER BILL TO Zip: 1 16/21 DATE 16/21 SAMPLING Thermometer ID #113 Correction Factor None Turnaround Time: **REMARKS:** TIME < BTEX 5 EXT. TPH Standard Rush ANALYSIS REQUEST Bacteria (only) Sample Condition Cool Intact Observed Temp. °C || Yes || Yes || Nc || No Corrected Temp. °C

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Page 110 of 148

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July 13, 2021

JEFFREY BROOM APACHE CORP - HOBBS 2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: RED LAKE 28 ST K BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/07/21 17:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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. Keine

Celey D. Keene Lab Director/Quality Manager



APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240	Project: RED LA Project Number: NONE Project Manager: JEFFRE Fax To: (575) 3	EY BROOM	Reported: 13-Jul-21 11:29	
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NW	H211763-01	Soil	07-Jul-21 15:30	07-Jul-21 17:00
SW	H211763-02	Soil	07-Jul-21 15:32	07-Jul-21 17:00
EW	H211763-03	Soil	07-Jul-21 15:34	07-Jul-21 17:00
WW	H211763-04	Soil	07-Jul-21 15:36	07-Jul-21 17:00
B9@3'	H211763-05	Soil	07-Jul-21 15:38	07-Jul-21 17:00
B 10 @ 3'	H211763-06	Soil	07-Jul-21 15:40	07-Jul-21 17:00
B11 @ 3'	H211763-07	Soil	07-Jul-21 15:42	07-Jul-21 17:00
B 12 @ 3'	H211763-08	Soil	07-Jul-21 15:44	07-Jul-21 17:00

07/13/21 - Client added Chlorides to all samples. This is the revised report and will replace the one sent on 07/08/21.

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240			Project Num Project Mana	iber: NOI Iger: JEFI		DM	ERY		Reported: 13-Jul-21 11:2	29
			H211'	NW 763-01 (So	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds Chloride	96.0		16.0	mg/kg	4	1071311	GM	13-Jul-21	4500-Cl-B	
Volatile Organic Compounds I		021	1010	00						
Benzene*	< 0.050	-	0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	1		114 %	69.9	-140	1070707	MS	08-Jul-21	8021B	
Petroleum Hydrocarbons by G	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	
Surrogate: 1-Chlorooctane			105 %	44.3	-133	1070806	MS	08-Jul-21	8015B	
Surrogate: 1-Chlorooctadecane			102 %	38.9	-142	1070806	MS	08-Jul-21	8015B	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240			Project: RED LAKE 28 ST K BATTERY Project Number: NONE GIVEN Project Manager: JEFFREY BROOM Fax To: (575) 393-2432						Reported: 13-Jul-21 11:29				
				SW									
			H211	763-02 (So	oil)								
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes			
			Cardina	al Laborat	ories								
Inorganic Compounds													
Chloride	144		16.0	mg/kg	4	1071311	GM	13-Jul-21	4500-Cl-B				
Volatile Organic Compounds	by EPA Method 802	21											
Benzene*	< 0.050		0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B				
Toluene*	< 0.050		0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B				
Ethylbenzene*	< 0.050		0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B				
Total Xylenes*	< 0.150		0.150	mg/kg	50	1070707	MS	08-Jul-21	8021B				
Total BTEX	< 0.300		0.300	mg/kg	50	1070707	MS	08-Jul-21	8021B				
Surrogate: 4-Bromofluorobenzene (Pl	D)		116 %	69.9	-140	1070707	MS	08-Jul-21	8021B				
Petroleum Hydrocarbons by	GC FID												
GRO C6-C10*	<10.0		10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B				
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B				
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B				
Surrogate: 1-Chlorooctane			94.5 %	44.3-	-133	1070806	MS	08-Jul-21	8015B				
Surrogate: 1-Chlorooctadecane			91.4 %	38.9	-142	1070806	MS	08-Jul-21	8015B				

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240			Project Nun Project Mana	nber: NON ager: JEFI	NE GIVEN		ERY		Reported: 13-Jul-21 11:2	29
			11211	EW	•1					
			H211	763-03 (So	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	128		16.0	mg/kg	4	1071311	GM	13-Jul-21	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method 8	021								
Benzene*	< 0.050		0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		113 %	69.9	-140	1070707	MS	08-Jul-21	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	
Surrogate: 1-Chlorooctane			95.6 %	44.3	-133	1070806	MS	08-Jul-21	8015B	
Surrogate: 1-Chlorooctadecane			<i>93</i> .7 %	38.9	-142	1070806	MS	08-Jul-21	8015B	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240			Project Nun Project Mana	nber: NON ager: JEFI	NE GIVEN		ERY		Reported: 13-Jul-21 11:2	29
			H211	WW 763-04 (So	,iI)					
				705-04 (50	,ii)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	80.0		16.0	mg/kg	4	1071311	GM	13-Jul-21	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 80)21								
Benzene*	< 0.050		0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Surrogate: 4-Bromofluorobenzene (PL	D)		115 %	69.9	-140	1070707	MS	08-Jul-21	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	
Surrogate: 1-Chlorooctane			98.2 %	44.3	-133	1070806	MS	08-Jul-21	8015B	
Surrogate: 1-Chlorooctadecane			94.6 %	38.9	-142	1070806	MS	08-Jul-21	8015B	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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

Analytical Results For:

APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240		Project Nur Project Man	nber: NON ager: JEFI	-	DM	RY		Reported: 13-Jul-21 11:2	29
			9 @ 3' 763-05 (So	vil)					
		11211	705 05 (St	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardin	al Laborat	tories					
Inorganic Compounds									
Chloride	80.0	16.0	mg/kg	4	1071311	GM	13-Jul-21	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method 8021								
Benzene*	< 0.050	0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Toluene*	< 0.050	0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Ethylbenzene*	< 0.050	0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Total Xylenes*	< 0.150	0.150	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Total BTEX	< 0.300	0.300	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	(D)	114 %	69.9	-140	1070707	MS	08-Jul-21	8021B	
Petroleum Hydrocarbons by	GC FID								
GRO C6-C10*	<10.0	10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	
Surrogate: 1-Chlorooctane		94.5 %	44.3	-133	1070806	MS	08-Jul-21	8015B	
Surrogate: 1-Chlorooctadecane		90.9 %	38.9	-142	1070806	MS	08-Jul-21	8015B	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240		Project Nur Project Man	nber: NON ager: JEFI	-	DM	RY		Reported: 13-Jul-21 11:2	29
			10 @ 3'						
		H211	763-06 (So	oil)					
Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardin	al Laborat	ories					
Inorganic Compounds									
Chloride	128	16.0	mg/kg	4	1071311	GM	13-Jul-21	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method 802	l							
Benzene*	< 0.050	0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Toluene*	< 0.050	0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Ethylbenzene*	< 0.050	0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Total Xylenes*	< 0.150	0.150	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Total BTEX	< 0.300	0.300	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)	114 %	69.9	-140	1070707	MS	08-Jul-21	8021B	
Petroleum Hydrocarbons by	GC FID								
GRO C6-C10*	<10.0	10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	
Surrogate: 1-Chlorooctane		102 %	44.3	-133	1070806	MS	08-Jul-21	8015B	
Surrogate: 1-Chlorooctadecane		99.0 %	38.9	-142	1070806	MS	08-Jul-21	8015B	

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Celey D. Keene, Lab Director/Quality Manager



APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240			Project Num Project Mana	nber: NON ager: JEFF	IE GIVEN		RY		Reported: 13-Jul-21 11:2	29
			В	11 @ 3'						
			H211	763-07 (So	il)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	1071311	GM	13-Jul-21	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 80	21								
Benzene*	< 0.050		0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Surrogate: 4-Bromofluorobenzene (PII	D)		115 %	69.9	140	1070707	MS	08-Jul-21	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	
Surrogate: 1-Chlorooctane			96.8 %	44.3	-133	1070806	MS	08-Jul-21	8015B	
Surrogate: 1-Chlorooctadecane			93.3 %	38.9	-142	1070806	MS	08-Jul-21	8015B	

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Celey D. Keene, Lab Director/Quality Manager



APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240		Project Nun Project Mana	nber: NON ager: JEFI	-	DM	RY		Reported: 13-Jul-21 11:2	29
			12 @ 3'						
		H211	763-08 (So	oil)					
Analyte	Result M	Reporting IDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	al Laborat	ories					
Inorganic Compounds									
Chloride	112	16.0	mg/kg	4	1071311	GM	13-Jul-21	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method 8021								
Benzene*	< 0.050	0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Toluene*	< 0.050	0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Ethylbenzene*	< 0.050	0.050	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Total Xylenes*	< 0.150	0.150	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Total BTEX	< 0.300	0.300	mg/kg	50	1070707	MS	08-Jul-21	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)	114 %	69.9	-140	1070707	MS	08-Jul-21	8021B	
Petroleum Hydrocarbons by	GC FID								
GRO C6-C10*	<10.0	10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1070806	MS	08-Jul-21	8015B	
Surrogate: 1-Chlorooctane		89.7 %	44.3	-133	1070806	MS	08-Jul-21	8015B	
Surrogate: 1-Chlorooctadecane		87.3 %	38.9	-142	1070806	MS	08-Jul-21	8015B	

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Celey D. Keene, Lab Director/Quality Manager



HOBBS NM, 88240 Fax To: (575) 393-2432	APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240	Project Number: I Project Manager:	JEFFREY BROOM	Reported: 13-Jul-21 11:29
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Inorganic Compounds - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	Ttebuit	Diint	omo	20101	rtesuit	, on the o	Dinne	iu b	Linit	110100
Batch 1071311 - 1:4 DI Water										
Blank (1071311-BLK1)				Prepared &	Analyzed:	13-Jul-21				
Chloride	ND	16.0	mg/kg							
LCS (1071311-BS1)				Prepared &	Analyzed:	13-Jul-21				
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (1071311-BSD1)				Prepared &	Analyzed:	13-Jul-21				
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	

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APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240	Project Number: Project Manager:		Reported: 13-Jul-21 11:29
---	-------------------------------------	--	------------------------------

Volatile Organic Compounds by EPA Method 8021 - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1070707 - Volatiles										
Blank (1070707-BLK1)				Prepared: ()7-Jul-21 A	nalyzed: 08	3-Jul-21			
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0564		mg/kg	0.0500		113	69.9-140			
LCS (1070707-BS1)				Prepared: (07-Jul-21 A	nalyzed: 08	3-Jul-21			
Benzene	1.99	0.050	mg/kg	2.00		99.4	89.9-120			
Toluene	1.94	0.050	mg/kg	2.00		96.8	90.8-117			
Ethylbenzene	1.87	0.050	mg/kg	2.00		93.3	88.9-116			
m,p-Xylene	3.79	0.100	mg/kg	4.00		94.7	85.5-118			
o-Xylene	1.89	0.050	mg/kg	2.00		94.5	85.5-118			
Total Xylenes	5.68	0.150	mg/kg	6.00		94.6	85.5-118			
Surrogate: 4-Bromofluorobenzene (PID)	0.0546		mg/kg	0.0500		109	69.9-140			
LCS Dup (1070707-BSD1)				Prepared: ()7-Jul-21 A	nalyzed: 08	3-Jul-21			
Benzene	2.10	0.050	mg/kg	2.00		105	89.9-120	5.53	10.3	
Toluene	2.05	0.050	mg/kg	2.00		102	90.8-117	5.67	10.5	
Ethylbenzene	1.98	0.050	mg/kg	2.00		99.0	88.9-116	5.93	10.8	
m,p-Xylene	4.01	0.100	mg/kg	4.00		100	85.5-118	5.68	10.7	
o-Xylene	2.01	0.050	mg/kg	2.00		100	85.5-118	6.00	10.7	
Total Xylenes	6.02	0.150	mg/kg	6.00		100	85.5-118	5.79	10.7	
Surrogate: 4-Bromofluorobenzene (PID)	0.0559		mg/kg	0.0500		112	69.9-140			

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240	Project Number: Project Manager:	RED LAKE 28 ST K BATTERY NONE GIVEN JEFFREY BROOM (575) 393-2432	Reported: 13-Jul-21 11:29
	Fax Io:	(575) 393-2432	

Petroleum Hydrocarbons by GC FID - Quality Control

Car	dinal	Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1070806 - General Prep - Organics										
Blank (1070806-BLK1)				Prepared &	analyzed:	08-Jul-21				
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	52.9		mg/kg	50.0		106	44.3-133			
Surrogate: 1-Chlorooctadecane	52.0		mg/kg	50.0		104	38.9-142			
LCS (1070806-BS1)				Prepared &	analyzed:	08-Jul-21				
GRO C6-C10	216	10.0	mg/kg	200		108	83.4-129			
DRO >C10-C28	228	10.0	mg/kg	200		114	79.3-136			
Total TPH C6-C28	444	10.0	mg/kg	400		111	85.3-130			
Surrogate: 1-Chlorooctane	54.8		mg/kg	50.0		110	44.3-133			
Surrogate: 1-Chlorooctadecane	54.0		mg/kg	50.0		108	38.9-142			
LCS Dup (1070806-BSD1)				Prepared &	Analyzed:	08-Jul-21				
GRO C6-C10	213	10.0	mg/kg	200		106	83.4-129	1.34	12.6	
DRO >C10-C28	227	10.0	mg/kg	200		113	79.3-136	0.651	12.1	
Total TPH C6-C28	439	10.0	mg/kg	400		110	85.3-130	0.986	11.6	
Surrogate: 1-Chlorooctane	55.1		mg/kg	50.0		110	44.3-133			
Surrogate: 1-Chlorooctadecane	54.8		mg/kg	50.0		110	38.9-142			

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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Celey D. Keene, Lab Director/Quality Manager

(575) 393-2326 FAX (575) 393-2476	(575) 393-2476	BILL TO		ANALYSIS REQUEST	EST
Project Manager:		1.0			
0400		Company:			
nuns	State: UUZip: 88240	Attn:			
# 1000		Address:		2/	
8	Project Owner:	City:		3/3	
Project Name:	-	State: Zip:		/15	
on: Put where	28 State 4 Battery	Phone #:	1	7	•
Sampler Name:		1		i	•
	MATRIX	PRESERV. SAMPLING	4	de	
Lab I.D. Sample I.D.	G)RAB OR COMP CONTAINERS GROUNDWATER WASTEWATER SOIL DIL SLUDGE		EXE TPE BTEX		
Call 1/2	# V 	-	X X OS		
NV2		21	32		
		~	36	2	
5 8402'		W	38	77	
6810 85			42 1 1	7 7	
50 0 C C C C C C C C C C C C C C C C C C	<u></u>	1 79 51	44 X X	<	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's analyses. All claims including those for negligence and any other cau and the second shall Cardinal he liable for incidental or consecute	Iability and client's exclusive remedy for any claim arising whether based in contract or tot, shall be limited to the amount paid by the client for the and any other cause whatsoever shall be deemed varived unless made in writing and received by Cardinal within 30 days after completion of the applicat fandary or consequential dramages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	or tort, shall be limited to the amount paid by the client for the I received by Cardinal within 30 days after completion of the a oss of use, or loss of profits incurred by client, its subsidiaries.	client for the applicable to subsidiaries,		
affiliates or successors arising out of or related to the performance of a Relinquished By:	Date: Received By:	ion any of the above stated rea	sons or decentration Verbal Result: Yes No All Results are emailed.	Yes No Add'I Phone #: Please provide Email address:	
hered	Time: CO JULLANA &	Haby REI	REMARKS:		
Delivered By: (Circle One). Obse Sampler - UPS - Bus - Other: Corn	Observed Temp. °C 4, 4 Cool Intact	CHECKED BY:	Turnaround Time: Standard Rush	Bacteria (only) S Cool Intact	ample Condition Observed Temp. °C

Page 15 of 15

Page 125 of 148

Received by OCD: 11/19/2024 12:00:19 AM



July 14, 2021

JEFFREY BROOM APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS, NM 88240

RE: RED LAKE 28 ST K BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/13/21 9:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	07/13/2021	Sampling Date:	07/12/2021
Reported:	07/14/2021	Sampling Type:	Soil
Project Name:	RED LAKE 28 ST K BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: WS BGS 1-8' (H211806-01)

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	07/13/2021	ND	2.12	106	2.00	1.58	
Toluene*	<0.050	0.050	07/13/2021	ND	2.04	102	2.00	1.50	
Ethylbenzene*	<0.050	0.050	07/13/2021	ND	1.97	98.7	2.00	1.78	
Total Xylenes*	<0.150	0.150	07/13/2021	ND	6.02	100	6.00	1.55	
Total BTEX	<0.300	0.300	07/13/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	69.9-14	0						
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	07/13/2021	ND	212	106	200	2.71	
DRO >C10-C28*	<10.0	10.0	07/13/2021	ND	223	111	200	7.96	
EXT DRO >C28-C36	<10.0	10.0	07/13/2021	ND					
Surrogate: 1-Chlorooctane	87.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	91.2	% 38.9-14	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

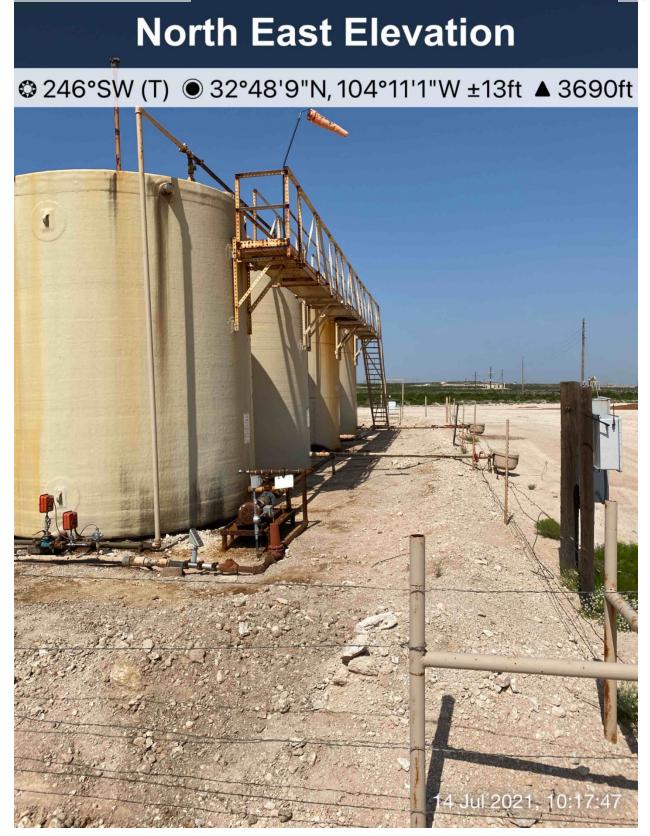
|--|

Page 4 of 4

Page 130 of 148







North East Elevation

© 220°SW (T) ● 32°48'9"N, 104°11'1"W ±13ft ▲ 3690ft



North West Elevation



East Elevation

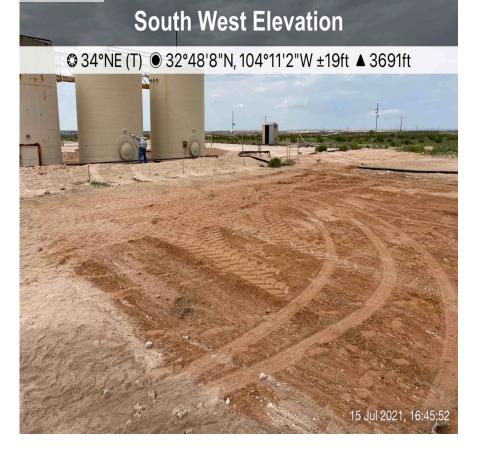
© 256°W (T) ● 32°48'8"N, 104°11'1"W ±13ft ▲ 3689ft

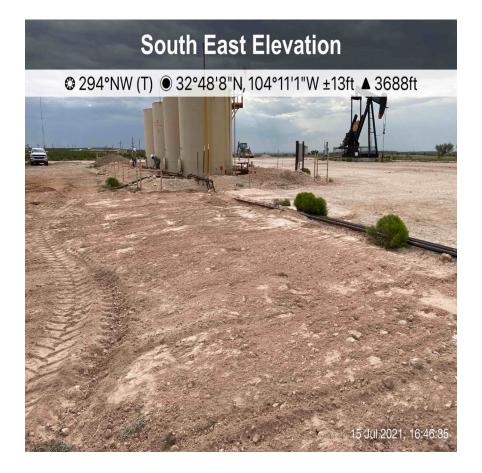


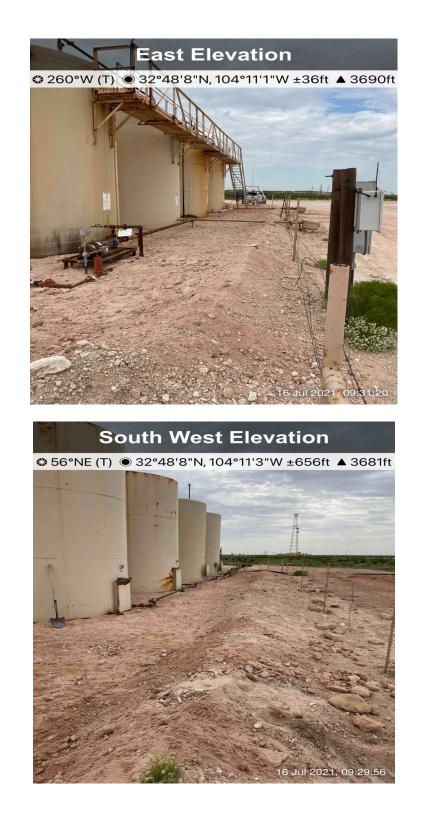
East Elevation



Received by OCD: 11/19/2024 12:00:19 AM











Red Lake 28 K State Battery 2RP-3960, 2RP-3961 Revegetation And Noxious Weed Plan

Revegetation Plan:

All the disturbed area in the pasture will be properly prepared and seeded with NMSLO Loamy seed mixture. The disturbed area will be monitored to ensure successful revegetation is achieved. If revegetation is not successful after a couple of growing seasons the site will be reseeded.

Noxious Weed Plan:

Apache Corporation will treat noxious weeds if they become established within the area of remediation. Weed control will be maintained on the disturbed land where noxious weeds exist both prior to remediation and restoration. Apache Corporation will consult with the Authorized Officer for acceptable weed control methods.

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Page 141 of 148

QUESTIONS

Action 404359

QUESTIONS	
Operator:	OGRID:
APACHE CORPORATION	873
303 Veterans Airpark Ln	Action Number:
Midland, TX 79705	404359
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

nAB1629941525
NAB1629941525 RED LAKE 28 K STATE #001 @ 30-015-33740
Oil Release
Remediation Closure Report Received
[30-015-33740] RED LAKE 28 K STATE #001

Location of Release Source

Please answer	all the	questions	in this	group.

Site Name	RED LAKE 28 K STATE #001
Date Release Discovered	10/04/2016
Surface Owner	State

Incident Details

Please answer all the questions in this group.		
Incident Type	Oil Release	
Did this release result in a fire or is the result of a fire	No	
Did this release result in any injuries	No	
Has this release reached or does it have a reasonable probability of reaching a watercourse	No	
Has this release endangered or does it have a reasonable probability of endangering public health	No	
Has this release substantially damaged or will it substantially damage property or the environment	No	
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No	

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission. Cause: Equipment Failure | Tank (Any) | Crude Oil | Released: 200 BBL | Recovered: 170 BBL Crude Oil Released (bbls) Details Lost: 30 BBL Produced Water Released (bbls) Details Not answered. Is the concentration of chloride in the produced water >10,000 mg/l Not answered. Condensate Released (bbls) Details Not answered. Natural Gas Vented (Mcf) Details Not answered. Natural Gas Flared (Mcf) Details Not answered. Other Released Details Not answered. Are there additional details for the questions above (i.e. any answer containing Not answered. Other, Specify, Unknown, and/or Fire, or any negative lost amounts)

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Page 142 of 148

QUESTIONS, Page 2

Action 404359

QUESTIONS (co	ntinued)
	OGRID:

Operator.	OGRID.
APACHE CORPORATION	873
303 Veterans Airpark Ln	Action Number:
Midland, TX 79705	404359
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)		
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.	
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes	
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.	
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.		

Initial Response		
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.		
The source of the release has been stopped	True	
The impacted area has been secured to protect human health and the environment	True	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True	
All free liquids and recoverable materials have been removed and managed appropriately	True	
If all the actions described above have not been undertaken, explain why	Not answered.	
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.		
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.		
I hereby agree and sign off to the above statement	Name: Larry Baker Title: Sr Environmemtal Tech Email: larry.baker@apachecorp.com Date: 11/18/2024	

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

QUESTIONS (continued)

Operator:	OGRID:
APACHE CORPORATION	873
303 Veterans Airpark Ln	Action Number:
Midland, TX 79705	404359
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)	
What method was used to determine the depth to ground water	Direct Measurement	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:		
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)	
Any other fresh water well or spring	Between 1 and 5 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)	
A wetland	Between ½ and 1 (mi.)	
A subsurface mine	Between 1 and 5 (mi.)	
An (non-karst) unstable area	Between 1 and 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	Low	
A 100-year floodplain	Between 1 and 5 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	Yes	

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.			
Requesting a remediation	plan approval with this submission	Yes	
Attach a comprehensive report de	monstrating the lateral and vertical extents of soil contamination	associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertica	al extents of contamination been fully delineated	Yes	
Was this release entirely c	ontained within a lined containment area	No	
Soil Contamination Sampling	Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride	(EPA 300.0 or SM4500 CI B)	304	
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	1461	
GRO+DRO	(EPA SW-846 Method 8015M)	1461	
BTEX	(EPA SW-846 Method 8021B or 8260B)	0	
Benzene	(EPA SW-846 Method 8021B or 8260B)	0	
	NMAC unless the site characterization report includes completed nelines for beginning and completing the remediation.	l efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,	
On what estimated date w	ill the remediation commence	01/01/2020	
On what date will (or did) the final sampling or liner inspection occur		07/13/2021	
On what date will (or was) the remediation complete(d)		07/15/2021	
What is the estimated surface area (in square feet) that will be reclaimed		800	
What is the estimated volume (in cubic yards) that will be reclaimed		89	
What is the estimated surfa	ace area (in square feet) that will be remediated	2800	
What is the estimated volu	me (in cubic yards) that will be remediated	192	
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.			

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

Action 404359

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QUESTIONS, Page 4

Action 404359

QUESTIONS (continued)		
Operator:	OGRID:	
APACHE CORPORATION	873	
303 Veterans Airpark Ln Midland, TX 79705	Action Number: 404359	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	
QUESTIONS		
Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate	/ reduce contaminants:	
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	R360 ARTESIA LLC LANDFARM [fEEM0112340644]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No	
(In Situ) Soil Vapor Extraction	No	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No	
Ground Water Abatement pursuant to 19.15.30 NMAC	No	
OTHER (Non-listed remedial process)	No	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed ef which includes the anticipated timelines for beginning and completing the remediation.	forts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,	
to report and/or file certain release notifications and perform corrective actions for releat the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or	
I hereby agree and sign off to the above statement	Name: Larry Baker Title: Sr Environmental Tech Email: larry.baker@apachecorp.com Date: 11/18/2024	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in according significantly deviate from the remediation plan proposed, then it should consult with the division to d	ordance with the physical realities encountered during remediation. If the responsible party has any need to letermine if another remediation plan submission is required.	

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Page	145	of 148

QUESTIONS, Page 5

Action 404359

QUESTIONS (continued)		
Operator:	OGRID:	
APACHE CORPORATION	873	
303 Veterans Airpark Ln	Action Number:	
Midland, TX 79705	404359	
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QU	ES.	ΓΙΟΙ	٧S

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of	the following items must be confirmed as part of any request for deferral of remediation.
Requesting a deferral of the remediation closure due date with the approval of this submission	Νο

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QUESTIONS, Page 6

Action 404359

Page 146 of 148

QUESTIONS (continued)	
Operator: APACHE CORPORATION 303 Veterans Airpark Ln	OGRID: 873 Action Number:
Midland, TX 79705	404359 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	404339
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/11/2021
What was the (estimated) number of samples that were to be gathered	25
What was the sampling surface area in square feet	2800

Remediation Closure Request

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	2800
What was the total volume (cubic yards) remediated	192
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	800
What was the total volume (in cubic yards) reclaimed	89
Summarize any additional remediation activities not included by answers (above)	The release area was excavated, and all excavated soil was hauled to an OCD approved disposal facility. Laboratory analysis were below table one standards for releases greater than 100 feet. The pasture area has met the reclamation standards in the top 4 feet. The pad was backfilled with clean imported caliche. The pasture area was backfilled with clean imported topsoil and reseeded.
	L closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of
to report and/or file certain release notifications and perform corrective actions for release the OCD does not relieve the operator of liability should their operations have failed to water, human health or the environment. In addition, OCD acceptance of a C-141 report	knowledge and understand that pursuant to OCD rules and regulations all operators are required ises which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or ially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed ng notification to the OCD when reclamation and re-vegetation are complete.
	Name: Larry Baker

I hereby agree and sign off to the above statement	Name: Larry Baker
I berefy agree and sign off to the above statement	Title: Sr Environmemtal Tech
Thereby agree and sign on to the above statement	Email: larry.baker@apachecorp.com
	Date: 11/18/2024

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QUESTIONS, Page 7

Page 147 of 148

Action 404359

 QUESTIONS (continued)

 Operator:
 APACHE CORPORATION
 873

 303 Veterans Airpark Ln
 Action Number:
 404359

 Midland, TX 79705
 Action Type:
 [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

 QUESTIONS

Reclamation Report

Reciamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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

Page 148 of 148

CONDITIONS

Action 404359

CONDITIONS OGRID: Operator: APACHE CORPORATION 873 303 Veterans Airpark Ln Action Number: Midland, TX 79705 404359 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation closure approved.	12/5/2024
amaxwell	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	12/5/2024
amaxwell	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	12/5/2024

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