



303 Veterans Airpark Lane Midland, TX 79705

Remediation Plan

June 5, 2023

Re: Seven Rivers Queen South Satellite
Case nAPP2210935265/ nAPP230033064

Background:

On 4/9/2022 a release (nAPP2210935265) occurred due a communication failure resulting in a tank to overfill. The release (GPS: 32.3440925, -103.2259918) is located south of Eunice, New Mexico in unit letter M section 36 township 22S range 36E. A groundwater survey was conducted utilizing NMOSE wells of record. The nearest well suggest groundwater beneath the release to be 55 feet. A remediation plan was submitted and rejected. A second release (nAPP230033064) occurred on 12/20/2022 that impacted the southern portion of the original release. A remediation plan was submitted for the second release and rejected by OCD. On 5/11/2023 a soil bore was conducted to a depth of 111 feet. The bore hole was left open for 72 hours and gauged. The gauged was dry indicating that groundwater was greater than 100 feet.

On 6/20/2022 vertical delineation was conducted at SP 1 to a depth of 5 feet. 4 grab horizontal samples were collected. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. On 1/19/2023 vertical delineation was conducted on the second release to a depth of 4 and 6 foot. 5-point composite horizontal 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. On 5/17/2023 discrete grab horizontal samples were collected and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX.

Remediation Plan:

Apache Corporation proposes that the release around SP 1 from the first release and the area from SP 2 from the second release be tilled to a depth of one foot. In the area of SP 1 of the second release be tilled to a depth of 3 feet. Once the entire release is tilled RXSoils will treat (130 yards) the release area with naturally occurring non-genetically modified bioremediation agent. This product, along with physical agitation will lead to the degradation of hydrocarbons. Treatment will continue throughout the release area until all soils evaluated are below table one standards for releases greater than 100 feet to groundwater. Once treatment is completed final 5-point composite samples will be collected not to exceed 200 square feet of soil treated and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. The horizontal extent of the release was identified during the delineation phase and that data will be utilized in the closure report. The in-situ remediation will be completed within 120 days of OCD approval of the plan.

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

Submitted by.

Larry Baker

Environmental Technician SR. Staff

larry.baker@apachecorp.com

Cell# 432-250-8384

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?	<u>112</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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
- ☒ 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.

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Larry Baker Title: Environmental Tech Sr. Staff
Signature: *Larry Baker* Date: 6/5/2023
email: larry.baker@apachecorp.com Telephone: 432-818-1654

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Larry Baker Title: Environmental Tech Sr. Staff
Signature: Larry Baker Date: 6/5/2023
email: larry.baker@apachecorp.com Telephone: 432-818-1654

OCD Only

Received by: _____ Date: _____

- ☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved
see text box below - NV

Signature: Nelson Velez Date: 08/31/2023

Remediation plan is approved under the following conditions;

1. OCD did not receive two business day notification toward the final sampling per 19.15.29.12D (1a) NMAC; therefore, the delineation points cannot be used toward closure.
2. Sidewalls to be sampled by collecting 5 point composite no more than two hundred (200) square feet per the reason for rejection of the initial remediation plan.
3. Apache has 60-days (October 30, 2023) to complete and submit the appropriate or final closure report.

From: OCDOnline@state.nm.us
To: [Baker, Larry](#)
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 197965
Date: Friday, April 21, 2023 11:32:33 AM

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#) nAPP2300333064, for the following reasons:

- **Remediation Plan Denied.** 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 ½ 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. Cannot delineate site with composite samples, must be depth discrete samples. Composite confirmation samples, once excavation has been completed, will be collected from the bottom and sidewalls of the excavation from areas representing no more than two hundred (200) square feet. Please resubmit a revised Remediation Plan by May 21, 2023.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 197965.

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

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

Thank you,
Jennifer Nobui
Environmental Specialist-Advanced
505-470-3407
Jennifer.Nobui@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

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From: OCDOnline@state.nm.us
To: [Baker, Larry](#)
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 123554
Date: Friday, July 22, 2022 1:07:02 PM

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#) nAPP2210935265, for the following reasons:

- **Remediation Plan Denied.** 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 ½ 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. Composite confirmation samples will be collected from the bottom and sidewalls of the excavation from areas representing no more than two hundred (200) square feet. Please resubmit a revised Remediation Plan by August 26, 2022.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 123554.

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

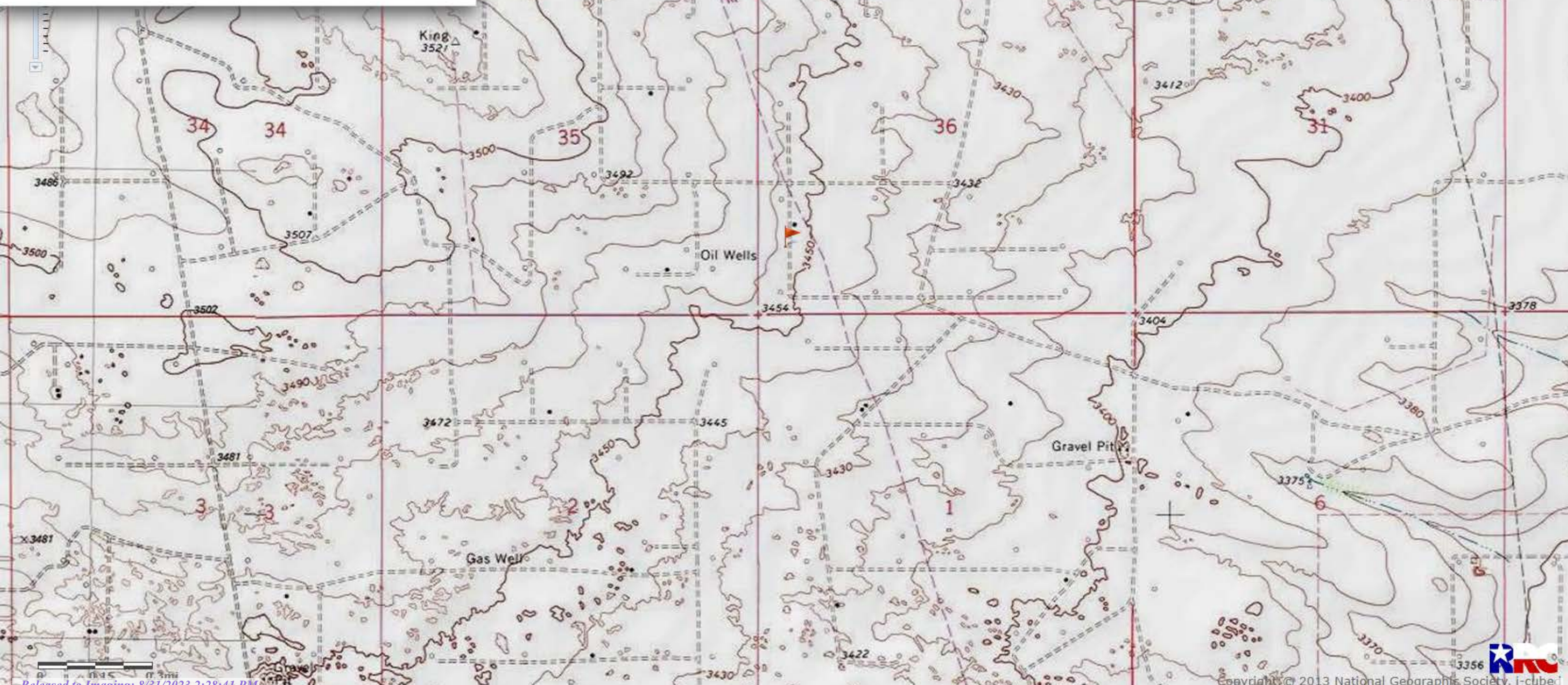
If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Jennifer Nobui
Environmental Specialist-Advanced
505-470-3407
Jennifer.Nobui@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

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32.3440925 -103.2259918 [Show](#)



Desert Sand Water Well Services, LLC.

Soil Bore Report

General / Well Info	Customer:		Phone:	Date:
	Well Name:		Location:	

LOG OF WELL	DEPTH		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER BEARING CAVITIES OR FRACTURES
	FROM	TO		



nAPP2210935265 Delineation Samples

[illegible]

nApp230033064 Delineation Samples

Sample Date	Sample ID	Depth	Chloride Lab	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
1/19/2023	SP1	Surface	32	11.2	122	111	221	465.0	4,700	17,100	3,470	32.3440721, -103.2259646
		1'	32	<0.500	6.91	24.8	69.7	101	1,150	4830	623	
		2'	48	<0.050	2.44	9.09	20.4	32	391	992	79	
		3'	32	<0.050	0.898	2.66	8.58	12.1	101	607	<50.0	
		4'	96	<0.050	0.158	0.061	<0.150	<0.300	<10.0	<10.0	<10.0	
1/19/2023	SP2	Surface	496	22.7	337	327	654	1340	18,000	52,800	7,230	32.3440648, -103.2260602
		1'	80	<0.050	0.334	0.415	0.864	1.61	<10.0	301	40	
		2'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	43.4	<10.0	
		3'	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		4'	112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	12.4	<10.0	
		5'	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		6'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
2/10/2023	H1	Surface	256	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.3440387, -103.2260404
2/10/2023	H2	Surface	320	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.3442432, -103.2260079
5/17/2023	H1	6"	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
5/17/2023	H2	6"	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
5/17/2023	H3	6"	144	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
5/17/2023	H4	6"	224	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	



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

June 24, 2022

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: SESRQ

Enclosed are the results of analyses for samples received by the laboratory on 06/20/22 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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 accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/20/2022
 Reported: 06/24/2022
 Project Name: SESRQ
 Project Number: NOT GIVEN
 Project Location: NONE GIVEN

Sampling Date: 06/20/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 (H222632-01)

BTX 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	06/23/2022	ND	1.92	95.8	2.00	0.750	
Toluene*	1.31	0.100	06/23/2022	ND	1.99	99.5	2.00	1.75	
Ethylbenzene*	9.64	0.100	06/23/2022	ND	1.94	96.8	2.00	2.35	GC-NC1
Total Xylenes*	18.1	0.300	06/23/2022	ND	5.72	95.3	6.00	2.10	
Total BTX	29.0	0.600	06/23/2022	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 206 % 69.9-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	06/21/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	559	100	06/21/2022	ND	200	100	200	18.6	
DRO >C10-C28*	17800	100	06/21/2022	ND	197	98.6	200	23.8	
EXT DRO >C28-C36	3170	100	06/21/2022	ND					

Surrogate: 1-Chlorooctane 123 % 66.9-136

Surrogate: 1-Chlorooctadecane 576 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/20/2022
 Reported: 06/24/2022
 Project Name: SESRQ
 Project Number: NOT GIVEN
 Project Location: NONE GIVEN

Sampling Date: 06/20/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 1' (H222632-02)

BTX 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	06/22/2022	ND	1.92	95.8	2.00	0.750	
Toluene*	<0.050	0.050	06/22/2022	ND	1.99	99.5	2.00	1.75	
Ethylbenzene*	<0.050	0.050	06/22/2022	ND	1.94	96.8	2.00	2.35	
Total Xylenes*	<0.150	0.150	06/22/2022	ND	5.72	95.3	6.00	2.10	
Total BTX	<0.300	0.300	06/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/21/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2022	ND	200	100	200	18.6	
DRO >C10-C28*	30.4	10.0	06/21/2022	ND	197	98.6	200	23.8	
EXT DRO >C28-C36	<10.0	10.0	06/21/2022	ND					

Surrogate: 1-Chlorooctane 76.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 78.6 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/20/2022
 Reported: 06/24/2022
 Project Name: SESRQ
 Project Number: NOT GIVEN
 Project Location: NONE GIVEN

Sampling Date: 06/20/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 2' (H222632-03)

BTX 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	06/22/2022	ND	1.92	95.8	2.00	0.750	
Toluene*	<0.050	0.050	06/22/2022	ND	1.99	99.5	2.00	1.75	
Ethylbenzene*	<0.050	0.050	06/22/2022	ND	1.94	96.8	2.00	2.35	
Total Xylenes*	<0.150	0.150	06/22/2022	ND	5.72	95.3	6.00	2.10	
Total BTX	<0.300	0.300	06/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/21/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2022	ND	200	100	200	18.6	
DRO >C10-C28*	<10.0	10.0	06/21/2022	ND	197	98.6	200	23.8	
EXT DRO >C28-C36	<10.0	10.0	06/21/2022	ND					

Surrogate: 1-Chlorooctane 70.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 70.6 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/20/2022
 Reported: 06/24/2022
 Project Name: SESRQ
 Project Number: NOT GIVEN
 Project Location: NONE GIVEN

Sampling Date: 06/20/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 3' (H222632-04)

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	06/22/2022	ND	1.92	95.8	2.00	0.750		
Toluene*	<0.050	0.050	06/22/2022	ND	1.99	99.5	2.00	1.75		
Ethylbenzene*	<0.050	0.050	06/22/2022	ND	1.94	96.8	2.00	2.35		
Total Xylenes*	<0.150	0.150	06/22/2022	ND	5.72	95.3	6.00	2.10		
Total BTEx	<0.300	0.300	06/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	06/21/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2022	ND	200	100	200	18.6	
DRO >C10-C28*	217	10.0	06/21/2022	ND	197	98.6	200	23.8	
EXT DRO >C28-C36	59.7	10.0	06/21/2022	ND					

Surrogate: 1-Chlorooctane 67.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 76.1 % 59.5-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/20/2022
 Reported: 06/24/2022
 Project Name: SESRQ
 Project Number: NOT GIVEN
 Project Location: NONE GIVEN

Sampling Date: 06/20/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 4' (H222632-05)

BTX 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	06/22/2022	ND	1.92	95.8	2.00	0.750	
Toluene*	<0.050	0.050	06/22/2022	ND	1.99	99.5	2.00	1.75	
Ethylbenzene*	<0.050	0.050	06/22/2022	ND	1.94	96.8	2.00	2.35	
Total Xylenes*	<0.150	0.150	06/22/2022	ND	5.72	95.3	6.00	2.10	
Total BTX	<0.300	0.300	06/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	06/21/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/22/2022	ND	179	89.6	200	3.38	
DRO >C10-C28*	<10.0	10.0	06/22/2022	ND	182	91.2	200	5.35	
EXT DRO >C28-C36	<10.0	10.0	06/22/2022	ND					

Surrogate: 1-Chlorooctane 67.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 71.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/20/2022
 Reported: 06/24/2022
 Project Name: SESRQ
 Project Number: NOT GIVEN
 Project Location: NONE GIVEN

Sampling Date: 06/20/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 5' (H222632-06)

BTX 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	06/22/2022	ND	1.92	95.8	2.00	0.750	
Toluene*	<0.050	0.050	06/22/2022	ND	1.99	99.5	2.00	1.75	
Ethylbenzene*	<0.050	0.050	06/22/2022	ND	1.94	96.8	2.00	2.35	
Total Xylenes*	<0.150	0.150	06/22/2022	ND	5.72	95.3	6.00	2.10	
Total BTX	<0.300	0.300	06/22/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/21/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/22/2022	ND	179	89.6	200	3.38	
DRO >C10-C28*	<10.0	10.0	06/22/2022	ND	182	91.2	200	5.35	
EXT DRO >C28-C36	<10.0	10.0	06/22/2022	ND					

Surrogate: 1-Chlorooctane 70.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 75.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/20/2022
 Reported: 06/24/2022
 Project Name: SESRQ
 Project Number: NOT GIVEN
 Project Location: NONE GIVEN

Sampling Date: 06/20/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SH (H222632-07)

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	06/22/2022	ND	1.92	95.8	2.00	0.750		
Toluene*	<0.050	0.050	06/22/2022	ND	1.99	99.5	2.00	1.75		
Ethylbenzene*	<0.050	0.050	06/22/2022	ND	1.94	96.8	2.00	2.35		
Total Xylenes*	<0.150	0.150	06/22/2022	ND	5.72	95.3	6.00	2.10		
Total BTEx	<0.300	0.300	06/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/21/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed 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	06/23/2022	ND	179	89.6	200	3.38	
DRO >C10-C28*	<10.0	10.0	06/23/2022	ND	182	91.2	200	5.35	
EXT DRO >C28-C36	<10.0	10.0	06/23/2022	ND					

Surrogate: 1-Chlorooctane 62.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 67.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/20/2022
 Reported: 06/24/2022
 Project Name: SESRQ
 Project Number: NOT GIVEN
 Project Location: NONE GIVEN

Sampling Date: 06/20/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NH (H222632-08)

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	06/22/2022	ND	1.92	95.8	2.00	0.750		
Toluene*	<0.050	0.050	06/22/2022	ND	1.99	99.5	2.00	1.75		
Ethylbenzene*	<0.050	0.050	06/22/2022	ND	1.94	96.8	2.00	2.35		
Total Xylenes*	<0.150	0.150	06/22/2022	ND	5.72	95.3	6.00	2.10		
Total BTEx	<0.300	0.300	06/22/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/21/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/22/2022	ND	179	89.6	200	3.38	
DRO >C10-C28*	<10.0	10.0	06/22/2022	ND	182	91.2	200	5.35	
EXT DRO >C28-C36	<10.0	10.0	06/22/2022	ND					

Surrogate: 1-Chlorooctane 74.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 79.2 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/20/2022
 Reported: 06/24/2022
 Project Name: SESRQ
 Project Number: NOT GIVEN
 Project Location: NONE GIVEN

Sampling Date: 06/20/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WH (H222632-09)

BTX 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	06/21/2022	ND	1.98	99.1	2.00	3.09		
Toluene*	<0.050	0.050	06/21/2022	ND	2.01	100	2.00	5.17		
Ethylbenzene*	<0.050	0.050	06/21/2022	ND	1.93	96.7	2.00	6.03		
Total Xylenes*	<0.150	0.150	06/21/2022	ND	6.05	101	6.00	7.05		
Total BTX	<0.300	0.300	06/21/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/21/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/23/2022	ND	179	89.6	200	3.38	
DRO >C10-C28*	<10.0	10.0	06/23/2022	ND	182	91.2	200	5.35	
EXT DRO >C28-C36	<10.0	10.0	06/23/2022	ND					

Surrogate: 1-Chlorooctane 74.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 78.6 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/20/2022
 Reported: 06/24/2022
 Project Name: SESRQ
 Project Number: NOT GIVEN
 Project Location: NONE GIVEN

Sampling Date: 06/20/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EH (H222632-10)

BTX 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	06/21/2022	ND	1.98	99.1	2.00	3.09		
Toluene*	<0.050	0.050	06/21/2022	ND	2.01	100	2.00	5.17		
Ethylbenzene*	<0.050	0.050	06/21/2022	ND	1.93	96.7	2.00	6.03		
Total Xylenes*	<0.150	0.150	06/21/2022	ND	6.05	101	6.00	7.05		
Total BTX	<0.300	0.300	06/21/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/21/2022	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed 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	06/23/2022	ND	179	89.6	200	3.38	
DRO >C10-C28*	<10.0	10.0	06/23/2022	ND	182	91.2	200	5.35	
EXT DRO >C28-C36	<10.0	10.0	06/23/2022	ND					

Surrogate: 1-Chlorooctane 60.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 62.5 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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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-04	The RPD for the BS/BSD was outside of historical limits.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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



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† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

January 24, 2023

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: SOUTH RIVER QUEEN UNIT SATELLITE

Enclosed are the results of analyses for samples received by the laboratory on 01/19/23 16:42.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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 accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly legible.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	SOUTH RIVER QUEEN UNIT SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 SURFACE (H230292-01)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	11.2	2.00	01/22/2023	ND	2.08	104	2.00	2.28	QM-07
Toluene*	122	2.00	01/22/2023	ND	2.28	114	2.00	2.45	QM-07
Ethylbenzene*	111	2.00	01/22/2023	ND	2.19	109	2.00	2.08	QM-07
Total Xylenes*	221	6.00	01/22/2023	ND	6.80	113	6.00	1.91	QM-07
Total BTEX	465	12.0	01/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 144 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/23/2023	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	4700	50.0	01/23/2023	ND	212	106	200	0.653	
DRO >C10-C28*	17100	50.0	01/23/2023	ND	236	118	200	4.62	
EXT DRO >C28-C36	3470	50.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 281 % 48.2-134

Surrogate: 1-Chlorooctadecane 340 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	SOUTH RIVER QUEEN UNIT SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 1' (H230292-02)

BTX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	01/22/2023	ND	2.08	104	2.00	2.28	
Toluene*	6.91	0.500	01/22/2023	ND	2.28	114	2.00	2.45	
Ethylbenzene*	24.8	0.500	01/22/2023	ND	2.19	109	2.00	2.08	
Total Xylenes*	69.7	1.50	01/22/2023	ND	6.80	113	6.00	1.91	
Total BTX	101	3.00	01/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 182 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/23/2023	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1150	50.0	01/23/2023	ND	212	106	200	0.653	
DRO >C10-C28*	4830	50.0	01/23/2023	ND	236	118	200	4.62	
EXT DRO >C28-C36	623	50.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 178 % 48.2-134

Surrogate: 1-Chlorooctadecane 157 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	SOUTH RIVER QUEEN UNIT SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 2' (H230292-03)

BTX 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/22/2023	ND	2.08	104	2.00	2.28	
Toluene*	2.44	0.050	01/22/2023	ND	2.28	114	2.00	2.45	
Ethylbenzene*	9.09	0.050	01/22/2023	ND	2.19	109	2.00	2.08	
Total Xylenes*	20.4	0.150	01/22/2023	ND	6.80	113	6.00	1.91	
Total BTX	32.0	0.300	01/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 261 % 71.5-134

Chloride, SM4500CI-B		mg/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/23/2023	ND	432	108	400	7.69	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	391	50.0	01/23/2023	ND	212	106	200	0.653	
DRO >C10-C28*	992	50.0	01/23/2023	ND	236	118	200	4.62	
EXT DRO >C28-C36	78.9	50.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 177 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	SOUTH RIVER QUEEN UNIT SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 3' (H230292-04)

BTX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/22/2023	ND	2.08	104	2.00	2.28	
Toluene*	0.898	0.050	01/22/2023	ND	2.28	114	2.00	2.45	
Ethylbenzene*	2.66	0.050	01/22/2023	ND	2.19	109	2.00	2.08	
Total Xylenes*	8.58	0.150	01/22/2023	ND	6.80	113	6.00	1.91	
Total BTX	12.1	0.300	01/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 257 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/23/2023	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	101	50.0	01/23/2023	ND	212	106	200	0.653	
DRO >C10-C28*	607	50.0	01/23/2023	ND	236	118	200	4.62	
EXT DRO >C28-C36	<50.0	50.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 169 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	SOUTH RIVER QUEEN UNIT SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 4' (H230292-05)

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	01/22/2023	ND	2.08	104	2.00	2.28	
Toluene*	0.158	0.050	01/22/2023	ND	2.28	114	2.00	2.45	
Ethylbenzene*	0.061	0.050	01/22/2023	ND	2.19	109	2.00	2.08	
Total Xylenes*	<0.150	0.150	01/22/2023	ND	6.80	113	6.00	1.91	
Total BTEx	<0.300	0.300	01/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/23/2023	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	212	106	200	0.653	
DRO >C10-C28*	<10.0	10.0	01/23/2023	ND	236	118	200	4.62	
EXT DRO >C28-C36	<10.0	10.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	SOUTH RIVER QUEEN UNIT SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 SURFACE (H230292-06)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	22.7	5.00	01/22/2023	ND	2.08	104	2.00	2.28	
Toluene*	337	5.00	01/22/2023	ND	2.28	114	2.00	2.45	
Ethylbenzene*	327	5.00	01/22/2023	ND	2.19	109	2.00	2.08	
Total Xylenes*	654	15.0	01/22/2023	ND	6.80	113	6.00	1.91	
Total BTEX	1340	30.0	01/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 148 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	01/23/2023	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	18000	50.0	01/23/2023	ND	212	106	200	0.653	
DRO >C10-C28*	52800	50.0	01/23/2023	ND	236	118	200	4.62	
EXT DRO >C28-C36	7230	50.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 854 % 48.2-134

Surrogate: 1-Chlorooctadecane 1310 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	SOUTH RIVER QUEEN UNIT SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 1' (H230292-07)

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	01/22/2023	ND	2.08	104	2.00	2.28	
Toluene*	0.334	0.050	01/22/2023	ND	2.28	114	2.00	2.45	
Ethylbenzene*	0.415	0.050	01/22/2023	ND	2.19	109	2.00	2.08	
Total Xylenes*	0.864	0.150	01/22/2023	ND	6.80	113	6.00	1.91	
Total BTEX	1.61	0.300	01/22/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 129 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/23/2023	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	212	106	200	0.653	
DRO >C10-C28*	301	10.0	01/23/2023	ND	236	118	200	4.62	
EXT DRO >C28-C36	40.2	10.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	SOUTH RIVER QUEEN UNIT SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 2' (H230292-08)

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	01/20/2023	ND	2.25	112	2.00	0.713		
Toluene*	<0.050	0.050	01/20/2023	ND	2.32	116	2.00	0.437		
Ethylbenzene*	<0.050	0.050	01/20/2023	ND	2.25	112	2.00	1.28		
Total Xylenes*	<0.150	0.150	01/20/2023	ND	6.86	114	6.00	2.17		
Total BTEx	<0.300	0.300	01/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/23/2023	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	212	106	200	0.653	
DRO >C10-C28*	43.4	10.0	01/23/2023	ND	236	118	200	4.62	
EXT DRO >C28-C36	<10.0	10.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	SOUTH RIVER QUEEN UNIT SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 3' (H230292-09)

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	01/20/2023	ND	2.25	112	2.00	0.713		
Toluene*	<0.050	0.050	01/20/2023	ND	2.32	116	2.00	0.437		
Ethylbenzene*	<0.050	0.050	01/20/2023	ND	2.25	112	2.00	1.28		
Total Xylenes*	<0.150	0.150	01/20/2023	ND	6.86	114	6.00	2.17		
Total BTEx	<0.300	0.300	01/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/23/2023	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	212	106	200	0.887	
DRO >C10-C28*	<10.0	10.0	01/23/2023	ND	211	105	200	1.91	
EXT DRO >C28-C36	<10.0	10.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 94.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	SOUTH RIVER QUEEN UNIT SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 4' (H230292-10)

BTX 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	01/20/2023	ND	2.25	112	2.00	0.713	
Toluene*	<0.050	0.050	01/20/2023	ND	2.32	116	2.00	0.437	
Ethylbenzene*	<0.050	0.050	01/20/2023	ND	2.25	112	2.00	1.28	
Total Xylenes*	<0.150	0.150	01/20/2023	ND	6.86	114	6.00	2.17	
Total BTX	<0.300	0.300	01/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/23/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	212	106	200	0.887	
DRO >C10-C28*	12.4	10.0	01/23/2023	ND	211	105	200	1.91	
EXT DRO >C28-C36	<10.0	10.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	SOUTH RIVER QUEEN UNIT SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 5' (H230292-11)

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	01/20/2023	ND	2.25	112	2.00	0.713		
Toluene*	<0.050	0.050	01/20/2023	ND	2.32	116	2.00	0.437		
Ethylbenzene*	<0.050	0.050	01/20/2023	ND	2.25	112	2.00	1.28		
Total Xylenes*	<0.150	0.150	01/20/2023	ND	6.86	114	6.00	2.17		
Total BTEx	<0.300	0.300	01/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/23/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	212	106	200	0.887	
DRO >C10-C28*	<10.0	10.0	01/23/2023	ND	211	105	200	1.91	
EXT DRO >C28-C36	<10.0	10.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 94.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/19/2023	Sampling Date:	01/19/2023
Reported:	01/24/2023	Sampling Type:	Soil
Project Name:	SOUTH RIVER QUEEN UNIT SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 6' (H230292-12)

BTX 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	01/20/2023	ND	2.25	112	2.00	0.713	
Toluene*	<0.050	0.050	01/20/2023	ND	2.32	116	2.00	0.437	
Ethylbenzene*	<0.050	0.050	01/20/2023	ND	2.25	112	2.00	1.28	
Total Xylenes*	<0.150	0.150	01/20/2023	ND	6.86	114	6.00	2.17	
Total BTX	<0.300	0.300	01/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/23/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2023	ND	212	106	200	0.887	
DRO >C10-C28*	<10.0	10.0	01/23/2023	ND	211	105	200	1.91	
EXT DRO >C28-C36	<10.0	10.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

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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*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO				ANALYSIS REQUEST													
Company Name: <u>Apache</u>		P.O. #:															
Project Manager: <u>Bruce Baker</u>		Company:															
Address:		Attn:															
City: <u>Hobbs</u>		Address:															
State: <u>NM</u>		City:															
Zip: <u>88240</u>		State:															
Phone #:		Zip:															
Project Owner:		Phone #:															
Project #:		Fax #:															
Project Name: <u>South River Queen Unit Satellite</u>																	
Project Location: <u>South River Queen Unit Satellite</u>																	
Sampler Name: <u>Jose Quezada</u>																	
FOR LAB USE ONLY																	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	CI	BTEx	EXT TPH
1230022	SP1 surface		1										11/5	10:58 AM			
	SP101'		1										11/5	11:00 AM			
	SP102'		1										11/5	11:02 AM			
	SP103'		1										11/5	11:04 AM			
	SP104'		1										11/5	11:06 AM			
	SP2 surface		1										11/5	11:10 AM			
	SP201'		1										11/5	11:12 AM			
	SP202'		1										11/5	11:14 AM			
	SP203'		1										11/5	11:16 AM			
	SP204'		1										11/5	11:18 AM			
<p>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 waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of service. Incurred by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																	
Relinquished By: <u>Jose Quezada</u>		Date: <u>11/5/13</u>		Received By: <u>Joelle Henderson</u>		Date: <u>11/5/13</u>		Time: <u>11:42</u>		Sample Condition		CHECKED BY: <u>(initials)</u>		Turnaround Time: <u>2-Me / Results</u>		Standard <u>Rush</u>	
Relinquished By: <u>Jose Quezada</u>		Date: <u>11/5/13</u>		Received By: <u>Joelle Henderson</u>		Date: <u>11/5/13</u>		Time: <u>11:42</u>		Sample Condition		CHECKED BY: <u>(initials)</u>		Turnaround Time: <u>2-Me / Results</u>		Standard <u>Rush</u>	
Delivered By: (Circle One)		Observed Temp. °C		Corrected Temp. °C		Sample Condition		CHECKED BY: <u>(initials)</u>		Turnaround Time: <u>2-Me / Results</u>		Standard <u>Rush</u>		Bacteria (only) Sample Condition		Corrected Temp. °C	
Sampler - UPS - Bus - Other:		Observed Temp. °C		Corrected Temp. °C		Sample Condition		CHECKED BY: <u>(initials)</u>		Turnaround Time: <u>2-Me / Results</u>		Standard <u>Rush</u>		Bacteria (only) Sample Condition		Corrected Temp. °C	
Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com		Observed Temp. °C		Corrected Temp. °C		Sample Condition		CHECKED BY: <u>(initials)</u>		Turnaround Time: <u>2-Me / Results</u>		Standard <u>Rush</u>		Bacteria (only) Sample Condition		Corrected Temp. °C	



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apache Project Manager: Bruce Batte Address: State: NM Zip: 88400 City: Hobbs Phone #: Fax #: Project Owner: Project #: Project Name: Project Location: South River Greenbelt Sat Project Name: South River Project Location: South River				BILL TO P.O. #: Company: Attn: Address: City: State: Zip:				ANALYSIS REQUEST			
Sample Name: South River Project Name: South River Project Location: South River Project Name: South River Project Location: South River				Matrix: GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER: ACID/BASE: ICE / COOL, OTHER:				DATE TIME 4/19 1:20 4/19 1:22			
Lab I.D. H230292 11 SP205 12 SP206				Sample I.D.							
FOR LAB USE ONLY											
Relinquished By: Jose Cuevas Date: 4/19/23 Time: 4:40 Received By: J. Keene Date: 4/19/23 Time: 1:22				Relinquished By: Jose Cuevas Date: 4/19/23 Time: 4:40 Received By: J. Keene Date: 4/19/23 Time: 1:22				Relinquished By: Jose Cuevas Date: 4/19/23 Time: 4:40 Received By: J. Keene Date: 4/19/23 Time: 1:22			
Delivered By: (Circle One) UPS - Bus - Other:				Observed Temp. °C 13.1 Corrected Temp. °C 8.5				Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>			
Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #113 -0.6°C Correction Factor None				Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #113 -0.6°C Correction Factor None				Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #113 -0.6°C Correction Factor None			
Remarks: E-Mail Results				Remarks: E-Mail Results				Remarks: E-Mail Results			



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

February 17, 2023

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: SRQU SATELLITE

Enclosed are the results of analyses for samples received by the laboratory on 02/10/23 16:31.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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 accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/10/2023
Reported:	02/17/2023	Sampling Type:	Soil
Project Name:	SRQU SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: H 1 (H230654-01)

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	02/16/2023	ND	1.98	99.1	2.00	4.38	
Toluene*	<0.050	0.050	02/16/2023	ND	2.04	102	2.00	4.22	
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.02	101	2.00	4.73	
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.30	105	6.00	4.75	
Total BTEx	<0.300	0.300	02/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	02/15/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/15/2023	ND	191	95.6	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/15/2023	ND	176	88.1	200	1.29	
EXT DRO >C28-C36	<10.0	10.0	02/15/2023	ND					

Surrogate: 1-Chlorooctane 95.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 02/10/2023
 Reported: 02/17/2023
 Project Name: SRQU SATELLITE
 Project Number: NOT GIVEN
 Project Location: NONE GIVEN

Sampling Date: 02/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H 2 (H230654-02)

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	02/16/2023	ND	1.98	99.1	2.00	4.38	
Toluene*	<0.050	0.050	02/16/2023	ND	2.04	102	2.00	4.22	
Ethylbenzene*	<0.050	0.050	02/16/2023	ND	2.02	101	2.00	4.73	
Total Xylenes*	<0.150	0.150	02/16/2023	ND	6.30	105	6.00	4.75	
Total BTEX	<0.300	0.300	02/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	02/15/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/15/2023	ND	191	95.6	200	1.76	
DRO >C10-C28*	<10.0	10.0	02/15/2023	ND	176	88.1	200	1.29	
EXT DRO >C28-C36	<10.0	10.0	02/15/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

May 23, 2023

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: SRQU SATELLITE

Enclosed are the results of analyses for samples received by the laboratory on 05/17/23 15:52.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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 accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/17/2023	Sampling Date:	05/17/2023
Reported:	05/23/2023	Sampling Type:	Soil
Project Name:	SRQU SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: H 1 6" (H232501-01)

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	05/20/2023	ND	2.36	118	2.00	4.23	
Toluene*	<0.050	0.050	05/20/2023	ND	2.32	116	2.00	4.90	
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.25	113	2.00	4.65	
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.87	114	6.00	3.07	
Total BTEX	<0.300	0.300	05/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/18/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/19/2023	ND	191	95.4	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/19/2023	ND	186	92.8	200	7.40	
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND					

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/17/2023	Sampling Date:	05/17/2023
Reported:	05/23/2023	Sampling Type:	Soil
Project Name:	SRQU SATELLITE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: H 2 6" (H232501-02)

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	05/20/2023	ND	2.36	118	2.00	4.23		
Toluene*	<0.050	0.050	05/20/2023	ND	2.32	116	2.00	4.90		
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.25	113	2.00	4.65		
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.87	114	6.00	3.07		
Total BTEx	<0.300	0.300	05/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/18/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/19/2023	ND	191	95.4	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/19/2023	ND	186	92.8	200	7.40	
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/17/2023
 Reported: 05/23/2023
 Project Name: SRQU SATELLITE
 Project Number: NOT GIVEN
 Project Location: NONE GIVEN

Sampling Date: 05/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H 3 6" (H232501-03)

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	05/20/2023	ND	2.36	118	2.00	4.23		
Toluene*	<0.050	0.050	05/20/2023	ND	2.32	116	2.00	4.90		
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.25	113	2.00	4.65		
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.87	114	6.00	3.07		
Total BTEx	<0.300	0.300	05/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	05/18/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/19/2023	ND	191	95.4	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/19/2023	ND	186	92.8	200	7.40	
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/17/2023
 Reported: 05/23/2023
 Project Name: SRQU SATELLITE
 Project Number: NOT GIVEN
 Project Location: NONE GIVEN

Sampling Date: 05/17/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H 4 6" (H232501-04)

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	05/20/2023	ND	2.36	118	2.00	4.23		
Toluene*	<0.050	0.050	05/20/2023	ND	2.32	116	2.00	4.90		
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.25	113	2.00	4.65		
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.87	114	6.00	3.07		
Total BTEx	<0.300	0.300	05/20/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	05/18/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/19/2023	ND	191	95.4	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/19/2023	ND	186	92.8	200	7.40	
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.0 % 49.1-148

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Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Released to Imaging: 8/31/2023 2:28:41 PM

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 224669

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 224669
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation plan is approved under the following conditions; 1. OCD did not receive two business day notification toward the final sampling per 19.15.29.12D (1a) NMAC; therefore, the delineation points cannot be used toward closure. 2. Sidewalls to be sampled by collecting 5 point composite no more than two hundred (200) square feet per the reason for rejection of the initial remediation plan. 3. Apache has 60-days (October 30, 2023) to complete and submit the appropriate or final closure report.	8/31/2023