



July 28, 2021

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

RE: 1RP-3066 South Eunice Seven Rivers Queen #428

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 June 18, 2010. Apache is respectfully submitting the closure report based on remediation and studies occurring in 2021 that demonstrate the site meeting the requirements of the agency. Unless further information is requested by NMOCD, Apache Corporation considers this release closed.

If there are any questions, please feel free to contact me by telephone at 432-631-6982 or by e-mail at larry.baker@apachecorp.com

Sincerely,

A handwritten signature in black ink that reads "Larry Baker". The signature is written in a cursive, flowing style.

Larry Baker
Environmental Technician SR.
Apache Corporation

Attachment: Closure Report Dated July 28, 2021.



303 Veterans Airpark Lane Midland, TX 79705

Closure Report

July 28, 2021

Re: South Eunice Seven Rivers Queen 428
Case # 1RP-3066

On 06/18/2010 a release occurred due to external corrosion on 1 ½ inch cement lined pipe. The release (GPS: 32.369837, -103.225533) is south of Eunice, New Mexico in unit letter M section 24 township 22S range 36E. A groundwater survey was conducted utilizing NMOSE wells of record. The nearest wells suggest that groundwater beneath the release is less than 50 feet below ground surface.

On 9/6/2019 Apache Corporation conducted vertical delineation at various depths. All samples collected were submitted to a commercial laboratory for analysis of chloride and the 1, 3, 5 foot samples were submitted to a commercial laboratory for analysis of TPH and BTEX. Laboratory results were above table one standards for chlorides at the west sample point. On 1/22/2020 the west sample point was advanced to a depth of 13 feet. All samples collected were submitted to a commercial laboratory for analysis of chloride.

The area around the west sample point was excavated to a depth of 13 feet. On 6/17/2021 final 5 point bottom and wall composite samples were collected not exceeding 200 square feet. All samples were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. All excavated soil was hauled to an OCD approved disposal facility. Clean imported top soil was utilized to backfill the excavation to ground surface and contoured to the surrounding area. The disturbed area will be reseeded with NMSLO sandy sites seed mixture.

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

Submitted by;

Bruce Baker

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

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

RECEIVED

AUG 04 2010

HOBBSOCD

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Apache Corporation	Contact Natalie Gladden
Address P.O. Box 1849, Eunice NM 88231	Telephone No. 575-390-4186
Facility Name South Eunice Seven Rivers Queen Unit #428	Facility Type Injection well
Surface Owner Deck Estate	Mineral Owner State of NM
Lease No. 30-025-09017	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	24	22S	36E	467'	FNL	467'	FWL	Lea

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 50	Volume Recovered 30
Source of Release Injection line leak	Date and Hour of Occurrence 06/18/2010 302pm	Date and Hour of Discovery 06/18/2010 302pm
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Larry Johnson	
By Whom? Natalie Gladden	Date and Hour 06/18/2010 415pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

WATER @ 120'


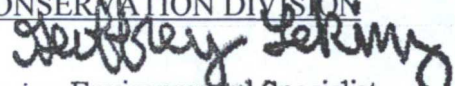
Describe Cause of Problem and Remedial Action Taken.*

External corrosion on 1 1/2" cement lined pipe that was buried surfaced with releasing approx 50bbls of produced water and recovering approx 30bbls of fluid. Immediately the saturated soil was excavated and hauled to Sundance Services.

Describe Area Affected and Cleanup Action Taken.*

Contaminated soil will be excavated and remediated according to the NMOCD Rules and Regulations to closure.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: 	OIL CONSERVATION DIVISION 	
Printed Name: Natalie Gladden	Approved by District Supervisor: Environmental Specialist	
Title: EHS Environmental Tech	Approval Date: 08/04/10	Expiration Date: 10/04/10
E-mail Address: natalie.gladden@apachecorp.com	Conditions of Approval: submit FINAL C-141 BY 10/04/10	Attached <input type="checkbox"/>
Date: 07/18/2010 Phone: 575-390-4186	IRP-06-14-3066	

* Attach Additional Sheets If Necessary

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>22</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 checked="" type="checkbox"/> Yes <input 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.
Signature: Larry Baker Date: 7/28/2021
email: larry.baker@apachecorp.com Telephone: 432-631-6982

OCD Only

Received by: _____ Date: _____

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)
- ☒ 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.

Printed Name: Larry Baker

Title: Environmental Tech SR.

Signature: Larry Baker

Date: 7/28/2021

email: larry.baker@apachecorp.com

Telephone: 432-631-6982

OCD Only

Received by: OCD

Date: 07/29/2021

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: Ashley Maxwell

Date: 1/25/2023

Printed Name: Ashley Maxwell

Title: Environmental Specialist



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
 (quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00609	1	3	4	22	22S	36E	664451	3583098*

Driller License: 208	Driller Company: VAN NOY, W.L.		
Driller Name: VAN NOY, W.L.			
Drill Start Date: 06/06/1980	Drill Finish Date: 06/28/1980	Plug Date:	
Log File Date: 07/01/1980	PCW Rcv Date:	Source: Shallow	
Pump Type:	Pipe Discharge Size:	Estimated Yield:	
Casing Size: 6.63	Depth Well: 199 feet	Depth Water: 22 feet	

Water Bearing Stratifications:	Top	Bottom	Description
	177	199	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	175	199

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

8/26/19 3:02 PM

Page 1 of 1

POD SUMMARY - CP 00609



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
 (quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64 Q16 Q4 Sec Tws Rng	X	Y
E 03808	POD1		666105	3580686

Driller License: 539	Driller Company: GARCIA BROTHERS DRILLING CO., LLC		
Driller Name: GARCIA, RAYMOND			
Drill Start Date: 04/27/1983	Drill Finish Date: 04/27/1983	Plug Date:	
Log File Date: 05/03/1983	PCW Rcv Date:	Source: Shallow	
Pump Type:	Pipe Discharge Size:	Estimated Yield: 35 GPM	
Casing Size: 5.00	Depth Well: 125 feet	Depth Water: 55 feet	

Water Bearing Stratifications:	Top	Bottom	Description
	35	55	Limestone/Dolomite/Chalk

Casing Perforations:	Top	Bottom
	30	50
	105	125

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

8/26/19 3:01 PM

Page 1 of 1

POD SUMMARY - E 03808 POD1

Radius

Buffer Size (miles) : 0.5

Click Map to Draw Radius

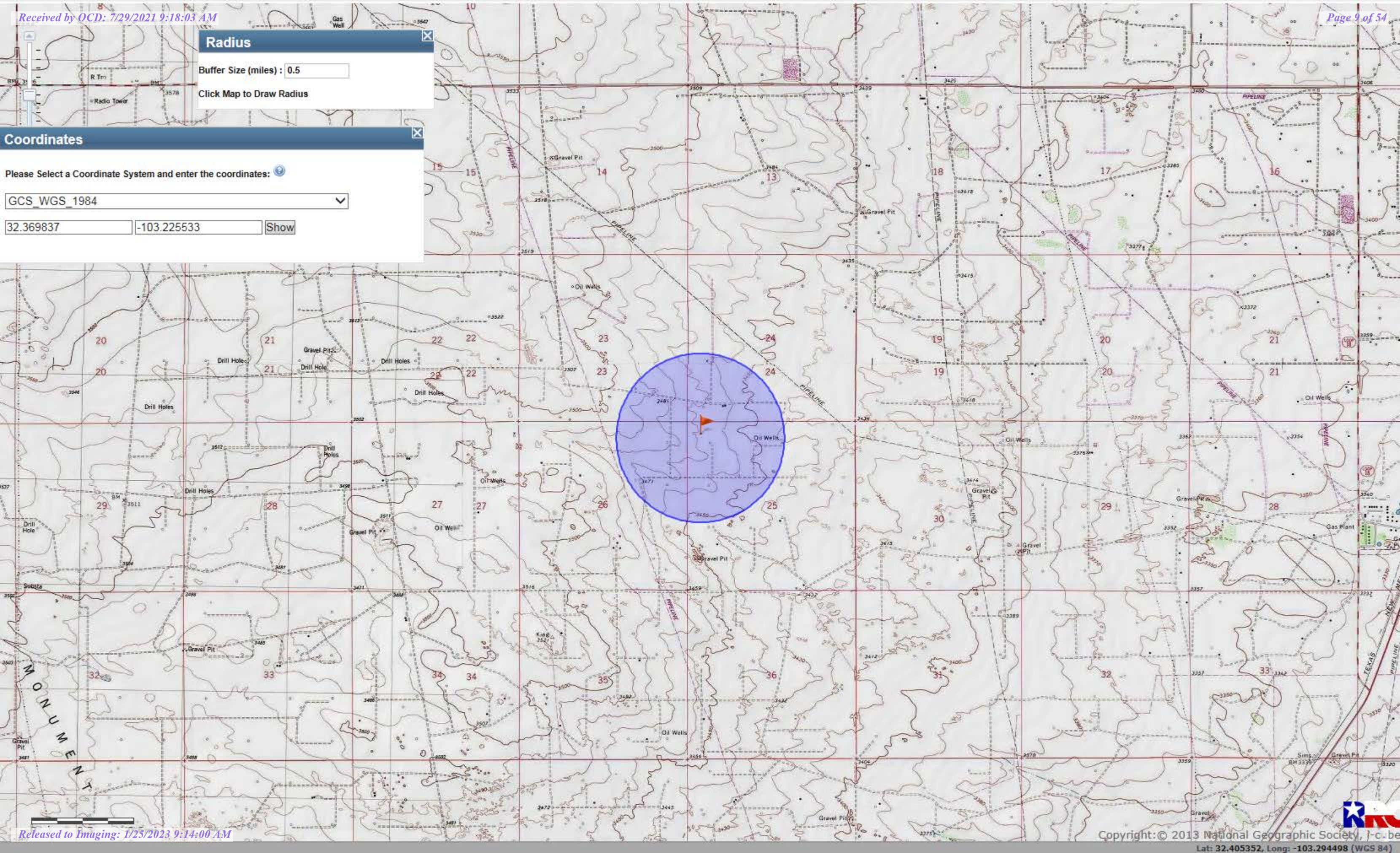
Coordinates

Please Select a Coordinate System and enter the coordinates:

GCS_WGS_1984

32.369837-103.225533

Show



NSP
WSP CSP ESP
ssp



Google Earth



Google Earth

35 ft

Delineation Samples

Sample Date	Sample ID	Depth	Chloride Lab	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
9/6/2019	Center	1'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.369837, -103.225533
9/6/2019		2'	32									
9/6/2019	West	1'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.369825, -103.225603
9/6/2019		2'	928									
9/6/2019		3'	1330	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
9/6/2019		4'	1140									
9/6/2019		5'	1070									
1/22/2020		7'	1020									
1/22/2020		9'	800									
1/22/2020		11'	640									
1/22/2020		13'	528									
9/6/2019	North	1'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.369908, -103.225533
9/6/2019		2'	48									
9/6/2019	East	1'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.369827, -103.225498
9/6/2019		2'	<16									
9/6/2019		3'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
9/6/2019		4'	80									
9/6/2019		5'	432	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
9/6/2019	South	1'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.369653, -103.225525

Excavation Final Samples

Sample Date	Sample ID	Depth	Chloride Lab	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
6/17/2021	WSP	13'	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.369825, -103.225603
6/17/2021	NW	0-13'	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.369851, -103.225606

6/17/2021	SW	0-13'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.369800, -103.225601
6/17/2021	WW	0-13'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.369823, -103.225630
6/17/2021	WW	0-13'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.369827, -103.225576

2010 Lab Report

Sample Date	Sample ID	Depth	Chloride Lab
7/30/2010	SP 1	N/A	16
7/30/2010	SP 2	N/A	16
7/30/2010	SP 3	N/A	<16
7/30/2010	SP 4	N/A	112
7/30/2010	SP 5	N/A	96



PHONE (876) 393-2336 • 101 E. MARLAND • HOBBS, NM 88240

August 09, 2010

NATALIE GLADDEN

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: SRQU #428

Enclosed are the results of analyses for samples received by the laboratory on 07/30/10 17:08.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (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,

Caley D. Keene
Lab Director/Quality Manager



PHONE (575) 383-2228 • 181 E. FARLAND • HOBBS, NM 88240

Analytical Results For:

APACHE - EUNICE
NATALIE GLADDEN
P. O. BOX 1849
EUNICE NM, 88231
Fax To: 394-2425

Received: 07/30/2010
Reported: 08/09/2010
Project Name: SRQU #428
Project Number: NOT GIVEN
Project Location: SRQU #428

Sampling Date: 07/10/2010
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP1 (H020497-01)

Chloride, SM4500CI-B mg/kg			Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/04/2010	ND	432	108	400	3.64	

Sample ID: SP2 (H020497-02)

Chloride, SM4500CI-B mg/kg			Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/04/2010	ND	432	108	400	3.64	

Sample ID: SP3 (H020497-03)

Chloride, SM4500CI-B mg/kg			Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/04/2010	ND	432	108	400	3.64	

Sample ID: SP4 (H020497-04)

Chloride, SM4500CI-B mg/kg			Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/04/2010	ND	432	108	400	3.64	

Sample ID: SP5 (H020497-05)

Chloride, SM4500CI-B mg/kg			Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/04/2010	ND	432	108	400	3.64	

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



PHONE (375) 383-2338 • 601 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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240
(876) 393-2326 FAX (876) 393-3476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Apache</u>				BILL TO				ANALYSIS REQUEST																																																																																																											
Project Manager: <u>Catalie Gladden</u>				P.O. #:																																																																																																															
Address:				Company:																																																																																																															
City:		State:		Zip:		Alt:																																																																																																													
Phone #:		Fax #:		Address:																																																																																																															
Project #:		Project Owner:		City:																																																																																																															
Project Name:				State:																Zip:																																																																																															
Project Location: <u>SRM #428</u>				Phone #:																																																																																																															
Sampler Name:				Fax #:																																																																																																															
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2">FOR LAB USE ONLY</th> <th colspan="2">SAMPLE I.D.</th> <th colspan="2">MATRIX</th> <th colspan="2">PRESERV</th> <th colspan="2">SAMPLING</th> <th colspan="6" rowspan="8" style="text-align: center; vertical-align: middle;">CFC</th> </tr> <tr> <th>Lab I.D.</th> <th>Sample I.D.</th> <th>GROUNDWATER</th> <th>WASTEWATER</th> <th>SOIL</th> <th>SLUDGE</th> <th>OTHER</th> <th>ACIDBASE</th> <th>ICE / COOL</th> <th>OTHER</th> <th>DATE</th> <th>TIME</th> </tr> <tr> <td>820497-1</td> <td>SP1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>7/20</td> <td>2:15</td> </tr> <tr> <td>2</td> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>																FOR LAB USE ONLY		SAMPLE I.D.		MATRIX		PRESERV		SAMPLING		CFC						Lab I.D.	Sample I.D.	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER	ACIDBASE	ICE / COOL	OTHER	DATE	TIME	820497-1	SP1									7/20	2:15	2	2											3	3											4	4											5	5																						
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<small>PLEASE NOTE: Liability and Damages: Cardinal's liability and shall not extend to any other matter whether caused or not, which is listed in the request form by the client for the analysis. All claims including those for negligence and any other claims whatsoever shall be limited to the extent of the amount paid by the client for the analysis. It is the client's responsibility to ensure that the sample is properly labeled and that the sample is properly preserved. Cardinal is not responsible for any damage to the sample or for any loss of the sample. Cardinal is not responsible for any damage to the sample or for any loss of the sample. Cardinal is not responsible for any damage to the sample or for any loss of the sample.</small>																																																																																																																			
Relinquished By: <u>Catalie Gladden</u> Date: <u>7-30</u> Time: <u>5:00</u>				Received By: Date: _____ Time: _____				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: _____ REMARKS:																																																																																																											
Relinquished By: _____ Date: _____ Time: _____				Received By: <u>Jodi Henson</u> Date: _____ Time: _____				Email																																																																																																											
Delivered By: (Circle One) Sampler - UPS - Bus - Other:				Sample Condition: Cool Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No 25°C <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No												CHECKED BY: <u>JH</u>																																																																																																			

FORM-006
Revision 1.0

† Cardinal cannot accept verbal changes. Please fax written changes to 876-393-3476

#26

Page 4 of 4



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

September 13, 2019

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: SEVEN RIVERS QUEEN #428

Enclosed are the results of analyses for samples received by the laboratory on 09/10/19 12:15.

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

Cardinal Laboratories is 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,

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: 09/10/2019
 Reported: 09/13/2019
 Project Name: SEVEN RIVERS QUEEN #428
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CENTER SP - 1' (H903116-01)

BTX 80218		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2019	ND	2.15	107	2.00	3.80	
Toluene*	<0.050	0.050	09/12/2019	ND	1.88	93.8	2.00	3.15	
Ethylbenzene*	<0.050	0.050	09/12/2019	ND	1.88	94.1	2.00	3.58	
Total Xylenes*	<0.150	0.150	09/12/2019	ND	5.72	95.4	6.00	3.47	
Total BTX	<0.300	0.300	09/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 95.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/11/2019	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	09/11/2019	ND	214	107	200	1.48	
DRO >C10-C28*	<10.0	10.0	09/11/2019	ND	215	108	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	09/11/2019	ND					

Surrogate: 1-Chlorooctane 83.5 % 41-142

Surrogate: 1-Chlorooctadecane 89.2 % 37.6-147

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*=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: 09/10/2019
 Reported: 09/13/2019
 Project Name: SEVEN RIVERS QUEEN #428
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CENTER SP - 2' (H903116-02)

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	09/11/2019	ND	416	104	400	0.00	

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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: 09/10/2019
 Reported: 09/13/2019
 Project Name: SEVEN RIVERS QUEEN #428
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WEST SP - 1' (H903116-03)

BTEx 80218			mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2019	ND	2.15	107	2.00	3.80		
Toluene*	<0.050	0.050	09/12/2019	ND	1.88	93.8	2.00	3.15		
Ethylbenzene*	<0.050	0.050	09/12/2019	ND	1.88	94.1	2.00	3.58		
Total Xylenes*	<0.150	0.150	09/12/2019	ND	5.72	95.4	6.00	3.47		
Total BTEx	<0.300	0.300	09/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 96.1 % 73.3-129

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	09/11/2019	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					

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	09/12/2019	ND	214	107	200	1.48	
DRO >C10-C28*	<10.0	10.0	09/12/2019	ND	215	108	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	09/12/2019	ND					

Surrogate: 1-Chlorooctane 83.8 % 41-142

Surrogate: 1-Chlorooctadecane 89.8 % 37.6-147

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Caley 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: 09/10/2019
 Reported: 09/13/2019
 Project Name: SEVEN RIVERS QUEEN #428
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WEST SP - 2' (H903116-04)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	09/11/2019	ND	416	104	400	0.00	

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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: 09/10/2019
 Reported: 09/13/2019
 Project Name: SEVEN RIVERS QUEEN #428
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WEST SP - 3' (H903116-05)

BTEX 8021B			mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2019	ND	2.15	107	2.00	3.80		
Toluene*	<0.050	0.050	09/12/2019	ND	1.88	93.8	2.00	3.15		
Ethylbenzene*	<0.050	0.050	09/12/2019	ND	1.88	94.1	2.00	3.58		
Total Xylenes*	<0.150	0.150	09/12/2019	ND	5.72	95.4	6.00	3.47		
Total BTEX	<0.300	0.300	09/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 96.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	09/11/2019	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	09/11/2019	ND	214	107	200	4.27	
DRO >C10-C28*	<10.0	10.0	09/11/2019	ND	217	109	200	7.72	
EXT DRO >C28-C36	<10.0	10.0	09/11/2019	ND					

Surrogate: 1-Chlorooctane 87.6 % 41-142

Surrogate: 1-Chlorooctadecane 94.5 % 37.6-147

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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: 09/10/2019
 Reported: 09/13/2019
 Project Name: SEVEN RIVERS QUEEN #428
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WEST SP - 4' (H903116-06)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	09/11/2019	ND	416	104	400	0.00	

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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:	09/10/2019	Sampling Date:	09/06/2019
Reported:	09/13/2019	Sampling Type:	Soil
Project Name:	SEVEN RIVERS QUEEN #428	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: WEST SP - 5' (H903116-07)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2019	ND	2.15	107	2.00	3.80	
Toluene*	<0.050	0.050	09/12/2019	ND	1.88	93.8	2.00	3.15	
Ethylbenzene*	<0.050	0.050	09/12/2019	ND	1.88	94.1	2.00	3.58	
Total Xylenes*	<0.150	0.150	09/12/2019	ND	5.72	95.4	6.00	3.47	
Total BTEX	<0.300	0.300	09/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 97.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	09/11/2019	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	09/11/2019	ND	214	107	200	4.27	
DRO >C10-C28*	<10.0	10.0	09/11/2019	ND	217	109	200	7.72	
EXT DRO >C28-C36	<10.0	10.0	09/11/2019	ND					

Surrogate: 1-Chlorooctane 93.0 % 41-142

Surrogate: 1-Chlorooctadecane 99.8 % 37.6-147

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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: 09/10/2019
 Reported: 09/13/2019
 Project Name: SEVEN RIVERS QUEEN #428
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NORTH SP - 1' (H903116-08)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2019	ND	2.15	107	2.00	3.80	
Toluene*	<0.050	0.050	09/12/2019	ND	1.88	93.8	2.00	3.15	
Ethylbenzene*	<0.050	0.050	09/12/2019	ND	1.88	94.1	2.00	3.58	
Total Xylenes*	<0.150	0.150	09/12/2019	ND	5.72	95.4	6.00	3.47	
Total BTEX	<0.300	0.300	09/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 97.0 % 73.3-129

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	09/11/2019	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	09/11/2019	ND	214	107	200	4.27	
DRO >C10-C28*	<10.0	10.0	09/11/2019	ND	217	109	200	7.72	
EXT DRO >C28-C36	<10.0	10.0	09/11/2019	ND					

Surrogate: 1-Chlorooctane 93.3 % 41-142

Surrogate: 1-Chlorooctadecane 99.7 % 37.6-147

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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: 09/10/2019
 Reported: 09/13/2019
 Project Name: SEVEN RIVERS QUEEN #428
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: NORTH SP - 2' (H903116-09)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/11/2019	ND	416	104	400	0.00	

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: 09/10/2019
 Reported: 09/13/2019
 Project Name: SEVEN RIVERS QUEEN #428
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EAST SP - 1' (H903116-10)

BTEX 8021B		mg/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2019	ND	2.15	107	2.00	3.80	
Toluene*	<0.050	0.050	09/12/2019	ND	1.88	93.8	2.00	3.15	
Ethylbenzene*	<0.050	0.050	09/12/2019	ND	1.88	94.1	2.00	3.58	
Total Xylenes*	<0.150	0.150	09/12/2019	ND	5.72	95.4	6.00	3.47	
Total BTEX	<0.300	0.300	09/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 96.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/11/2019	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	09/11/2019	ND	214	107	200	4.27	
DRO >C10-C28*	<10.0	10.0	09/11/2019	ND	217	109	200	7.72	
EXT DRO >C28-C36	<10.0	10.0	09/11/2019	ND					

Surrogate: 1-Chlorooctane 90.2 % 41-142

Surrogate: 1-Chlorooctadecane 96.5 % 37.6-147

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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: 09/10/2019
 Reported: 09/13/2019
 Project Name: SEVEN RIVERS QUEEN #428
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EAST SP - 2' (H903116-11)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/11/2019	ND	416	104	400	0.00	

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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:	09/10/2019	Sampling Date:	09/06/2019
Reported:	09/13/2019	Sampling Type:	Soil
Project Name:	SEVEN RIVERS QUEEN #428	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: EAST SP - 3' (H903116-12)

BTEX 8021B		mg/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2019	ND	2.15	107	2.00	3.80	
Toluene*	<0.050	0.050	09/12/2019	ND	1.88	93.8	2.00	3.15	
Ethylbenzene*	<0.050	0.050	09/12/2019	ND	1.88	94.1	2.00	3.58	
Total Xylenes*	<0.150	0.150	09/12/2019	ND	5.72	95.4	6.00	3.47	
Total BTEX	<0.300	0.300	09/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 97.6 % 73.3-129

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	09/11/2019	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	09/11/2019	ND	214	107	200	4.27	
DRO >C10-C28*	<10.0	10.0	09/11/2019	ND	217	109	200	7.72	
EXT DRO >C28-C36	<10.0	10.0	09/11/2019	ND					

Surrogate: 1-Chlorooctane 91.1 % 41-142

Surrogate: 1-Chlorooctadecane 97.8 % 37.6-147

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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: 09/10/2019
 Reported: 09/13/2019
 Project Name: SEVEN RIVERS QUEEN #428
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EAST SP - 4' (H903116-13)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/11/2019	ND	432	108	400	0.00	

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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: 09/10/2019
 Reported: 09/13/2019
 Project Name: SEVEN RIVERS QUEEN #428
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EAST SP - 5' (H903116-14)

BTEX 80218			mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/11/2019	ND	1.99	99.4	2.00	0.0332		
Toluene*	<0.050	0.050	09/11/2019	ND	2.00	100	2.00	1.34		
Ethylbenzene*	<0.050	0.050	09/11/2019	ND	2.03	102	2.00	0.393		
Total Xylenes*	<0.150	0.150	09/11/2019	ND	6.08	101	6.00	0.808		
Total BTEX	<0.300	0.300	09/11/2019	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 87.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	09/11/2019	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	09/11/2019	ND	214	107	200	4.27	
DRO >C10-C28*	<10.0	10.0	09/11/2019	ND	217	109	200	7.72	
EXT DRO >C28-C36	<10.0	10.0	09/11/2019	ND					

Surrogate: 1-Chlorooctane 92.1 % 41-142

Surrogate: 1-Chlorooctadecane 98.9 % 37.6-147

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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: 09/10/2019
 Reported: 09/13/2019
 Project Name: SEVEN RIVERS QUEEN #428
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/06/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SOUTH SP - 1' (H903116-15)

BTEX 8021B			mg/kg		Analyzed By: 8F				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2019	ND	1.99	99.4	2.00	0.0332	
Toluene*	<0.050	0.050	09/11/2019	ND	2.00	100	2.00	1.34	
Ethylbenzene*	<0.050	0.050	09/11/2019	ND	2.03	102	2.00	0.393	
Total Xylenes*	<0.150	0.150	09/11/2019	ND	6.08	101	6.00	0.808	
Total BTEX	<0.300	0.300	09/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 89.5 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/11/2019	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	09/11/2019	ND	214	107	200	4.27	
DRO >C10-C28*	<10.0	10.0	09/11/2019	ND	217	109	200	7.72	
EXT DRO >C28-C36	<10.0	10.0	09/11/2019	ND					

Surrogate: 1-Chlorooctane 86.5 % 41-142

Surrogate: 1-Chlorooctadecane 93.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



1058

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Apacorp Corp</u> Project Manager: <u>Apacorp Corp</u>		P.O. #: Company: <u>Apacorp Corp</u> Attn: <u>Bruce Baker</u> Address: <u>2350 Marland</u> City: <u>Albuquerque</u> State: <u>NM</u> Zip: <u>87104</u> Phone #: <u>505-261-6980</u> Fax #: <u>505-261-6980</u>	
Address: City: State: Zip: Phone #: Fax #:		BILL TO	
Project Name: Project Location: <u>Seven Rivers Queen #428</u>		ANALYSIS REQUEST	
Sample Name: FOR LAB USE ONLY		SAMPLING	
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	
		DATE TIME	
<u>H903116</u> <u>General SP-1</u> <u>Pen 10 SP-1</u> <u>3 West SP-1</u> <u>5 West SP-1</u> <u>6 West SP-1</u> <u>8 West SP-1</u> <u>9 North SP-1</u>	<u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u> <u>1</u>	<u>9-6-8</u> <u>10-15</u> <u>8-17</u> <u>8-30</u> <u>8-30</u> <u>9-09</u> <u>12-07</u> <u>7:55</u>	<u>Chirides</u> <u>Blex</u> <u>TPH</u> <u>W</u> <u>W</u> <u>W</u> <u>W</u> <u>W</u>
Relinquished By: <u>[Signature]</u> Date: <u>12-15</u> Time:		Received By: <u>[Signature]</u> Date: <u>12-15</u> Time:	
Delivered By: <u>[Signature]</u> Sample Condition: <input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: <u>[Signature]</u> REMARKS: <u>Montanez@hugob-1035.com</u> <u>larry.baker@apacorp.com</u>	



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

Page 36 of 54



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

January 27, 2020

CALEB PITCHER

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: SEVEN RIVERS QUEEN UNIT #428

Enclosed are the results of analyses for samples received by the laboratory on 01/24/20 10:20.

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/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 style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Hungry Horse Environmental
 CALEB PITCHER
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	01/24/2020	Sampling Date:	01/22/2020
Reported:	01/27/2020	Sampling Type:	Soil
Project Name:	SEVEN RIVERS QUEEN UNIT #428	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	APACHE CORP		

Sample ID: WSP - 7' (H000235-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	01/24/2020	ND	416	104	400	0.00	

Sample ID: WSP - 9' (H000235-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	01/24/2020	ND	416	104	400	0.00	

Sample ID: WSP - 11' (H000235-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	01/24/2020	ND	416	104	400	0.00	

Sample ID: WSP - 13' (H000235-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	01/24/2020	ND	416	104	400	0.00	

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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

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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

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

Company Name: <u>Long Horse</u> Project Manager: <u>Charles Picheur</u> Address: <u>11024 Pleasures Highway</u> City: <u>Lawington</u> State: <u>NM</u> Zip: _____ Phone #: <u>575-394-0123</u> Fax #: _____ Project #: _____ Project Owner: _____ Project Name: <u>Apache</u> Project Location: <u>Seven Rivers Queen Unit #428</u> Sample Name: _____		BILL TO P.O. #: _____ Company: <u>Apache</u> Attn: <u>Bruce Baker</u> Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____		ANALYSIS REQUEST	
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: _____		MATRIX PRESERV. SAMPLING DATE TIME	
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 analysis. 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 interruption, 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.		Relinquished By: _____ Date: <u>1-24-20</u> Time: <u>1:20</u> Relinquished By: _____ Date: <u>1020</u> Time: _____ Received By: <u>Larry Baker</u> Received By: _____		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: _____ REMARKS: <u>Larry Baker @ Apache Corp. com</u>	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <u>#113</u> <u>17.42</u> Sample Condition Cool <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No CHECKED BY: <u>Y. Q.</u>		Sample Condition Cool <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No CHECKED BY: <u>Y. Q.</u>		ANALYSIS REQUEST	



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

June 22, 2021

JEFFREY BROOM

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: SESRQ #428

Enclosed are the results of analyses for samples received by the laboratory on 06/18/21 8:00.

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

Received: 06/18/2021
 Reported: 06/22/2021
 Project Name: SESRQ #428
 Project Number: NOT GIVEN
 Project Location: NONE GIVEN

Sampling Date: 06/17/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WSP @ 13' (H211570-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2021	ND	2.07	104	2.00	2.02	
Toluene*	<0.050	0.050	06/19/2021	ND	1.96	98.1	2.00	2.55	
Ethylbenzene*	<0.050	0.050	06/19/2021	ND	1.91	95.4	2.00	1.98	
Total Xylenes*	<0.150	0.150	06/19/2021	ND	5.80	96.7	6.00	2.12	
Total BTX	<0.300	0.300	06/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	64.0	16.0	06/18/2021	ND	400	100	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	06/21/2021	ND	213	106	200	2.07	
DRO >C10-C28*	<10.0	10.0	06/21/2021	ND	205	102	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	06/21/2021	ND					

Surrogate: 1-Chlorooctane 83.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.8 % 38.9-142

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

Received: 06/18/2021
 Reported: 06/22/2021
 Project Name: SESRQ #428
 Project Number: NOT GIVEN
 Project Location: NONE GIVEN

Sampling Date: 06/17/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WSP NW (H211570-02)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2021	ND	2.07	104	2.00	2.02		
Toluene*	<0.050	0.050	06/19/2021	ND	1.96	98.1	2.00	2.55		
Ethylbenzene*	<0.050	0.050	06/19/2021	ND	1.91	95.4	2.00	1.98		
Total Xylenes*	<0.150	0.150	06/19/2021	ND	5.80	96.7	6.00	2.12		
Total BTX	<0.300	0.300	06/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	06/18/2021	ND	400	100	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	06/21/2021	ND	213	106	200	2.07	
DRO >C10-C28*	<10.0	10.0	06/21/2021	ND	205	102	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	06/21/2021	ND					

Surrogate: 1-Chlorooctane 93.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.4 % 38.9-142

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

Received: 06/18/2021
 Reported: 06/22/2021
 Project Name: SESRQ #428
 Project Number: NOT GIVEN
 Project Location: NONE GIVEN

Sampling Date: 06/17/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WSP SW (H211570-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2021	ND	2.07	104	2.00	2.02		
Toluene*	<0.050	0.050	06/19/2021	ND	1.96	98.1	2.00	2.55		
Ethylbenzene*	<0.050	0.050	06/19/2021	ND	1.91	95.4	2.00	1.98		
Total Xylenes*	<0.150	0.150	06/19/2021	ND	5.80	96.7	6.00	2.12		
Total BTEx	<0.300	0.300	06/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	06/18/2021	ND	400	100	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	06/21/2021	ND	213	106	200	2.07	
DRO >C10-C28*	<10.0	10.0	06/21/2021	ND	205	102	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	06/21/2021	ND					

Surrogate: 1-Chlorooctane 91.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.2 % 38.9-142

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

Received: 06/18/2021
 Reported: 06/22/2021
 Project Name: SESRQ #428
 Project Number: NOT GIVEN
 Project Location: NONE GIVEN

Sampling Date: 06/17/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WSP WW (H211570-04)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/19/2021	ND	2.07	104	2.00	2.02		
Toluene*	<0.050	0.050	06/19/2021	ND	1.96	98.1	2.00	2.55		
Ethylbenzene*	<0.050	0.050	06/19/2021	ND	1.91	95.4	2.00	1.98		
Total Xylenes*	<0.150	0.150	06/19/2021	ND	5.80	96.7	6.00	2.12		
Total BTEx	<0.300	0.300	06/19/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	06/18/2021	ND	400	100	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	06/21/2021	ND	213	106	200	2.07	
DRO >C10-C28*	<10.0	10.0	06/21/2021	ND	205	102	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	06/21/2021	ND					

Surrogate: 1-Chlorooctane 92.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.4 % 38.9-142

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

Received: 06/18/2021
 Reported: 06/22/2021
 Project Name: SESRQ #428
 Project Number: NOT GIVEN
 Project Location: NONE GIVEN

Sampling Date: 06/17/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WSP EW (H211570-05)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2021	ND	2.12	106	2.00	1.84	
Toluene*	<0.050	0.050	06/19/2021	ND	2.21	110	2.00	5.99	
Ethylbenzene*	<0.050	0.050	06/19/2021	ND	2.13	107	2.00	5.90	
Total Xylenes*	<0.150	0.150	06/19/2021	ND	6.38	106	6.00	5.87	
Total BTX	<0.300	0.300	06/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 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	06/18/2021	ND	400	100	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	06/21/2021	ND	213	106	200	2.07	
DRO >C10-C28*	<10.0	10.0	06/21/2021	ND	205	102	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	06/21/2021	ND					

Surrogate: 1-Chlorooctane 89.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.8 % 38.9-142

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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

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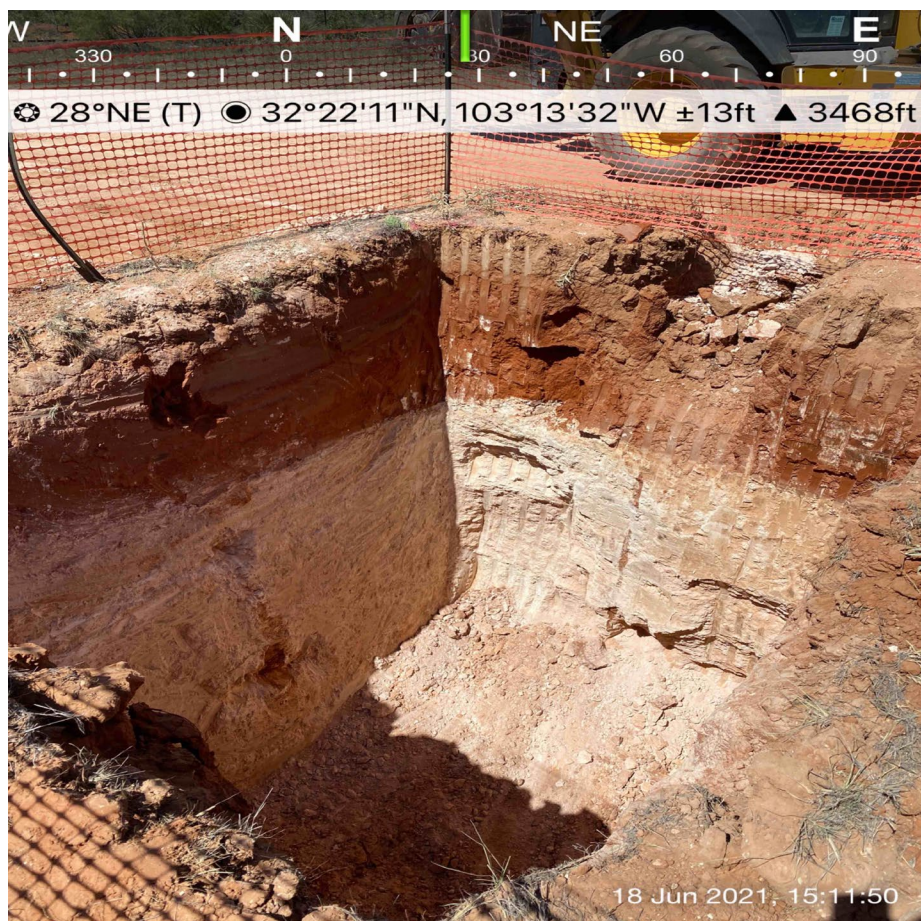
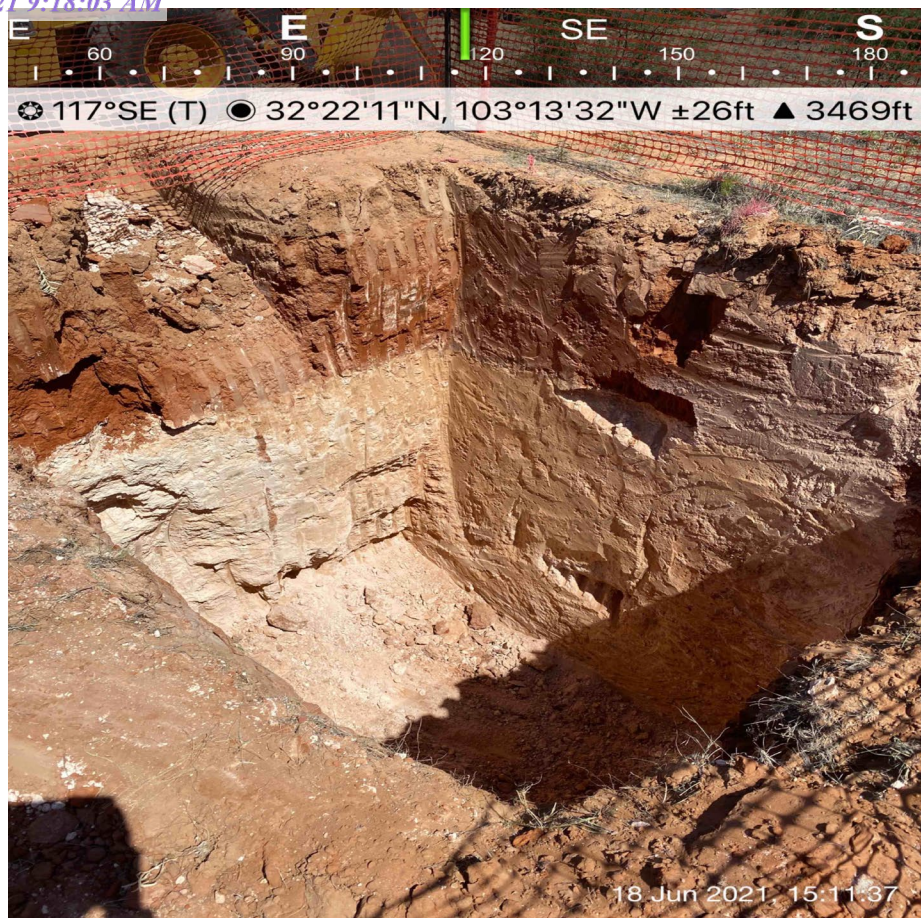
A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



Page 8 of 8

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



North East Elevation

☼ 207°SW (T) ● 32°22'11"N, 103°13'32"W ±42ft ▲ 3469ft



North Elevation

☼ 179°S (T) ● 32°22'11"N, 103°13'32"W ±19ft ▲ 3468ft



North Elevation

☼ 179°S (T) ● 32°22'11"N, 103°13'32"W ±19ft ▲ 3468ft



28 Jun 2021, 15:00:51



South Eunice Seven Rivers Queen 428
1RP-3066
Revegetation
And
Noxious Weed Plan

Revegetation Plan:

All the disturbed area in the pasture will be properly prepared and seeded with NMSLO sandy sites 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.

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 38741

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 38741
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	1/25/2023