



303 Veterans Airpark Lane Midland, TX 79705

Remediation Plan

June 6, 2023

Re: South Eunice Seven Rivers Queen CTB
Case nAPP2234836277

Background:

On 12/2/2022 a release occurred due to corrosion on water tank. The release (GPS: 32.3593335, -103.234675) is located south of Eunice, New Mexico in unit letter J section 26 township 22S range 36E. A groundwater survey was conducted utilizing NMOSE wells of record. The nearest wells suggest that groundwater is over 50 feet. A remediation plan was submitted and denied 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 for the presence of water. The bore hole was dry indicating that the depth of groundwater beneath the release is greater than 100 feet.

On 2/13/2023 delineation activities were conducted at the release. Horizontal 5-point composite 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. Laboratory analysis were above 600 chlorides for H4 and H9. On 2/23/2023 further sampling was conducted at H4 and H9 for chlorides. All samples collected were submitted to a commercial laboratory for analysis of chloride.

Remediation Plan:

Apache Corporation proposes that the release area at SP 3 be excavated to a depth of 6 inches to 1 foot. SP 5,6,7 in the pasture be excavated to a depth of one foot. Final 5-point bottom composite samples will be collected not to exceed 400 square feet. Final 5-point wall composite samples will be collected not to exceed 200 square feet. All samples collected will be submitted a commercial laboratory for analysis of chloride, TPH, and BTEX. All excavated soil (500 yards) will be hauled to an OCD approved disposal facility. Once laboratory analysis is below table one standards for releases greater than 100 feet to groundwater. The excavation will be backfilled with clean imported caliche to restore the pad and clean imported topsoil in the pastured to ground surface. The site will be reseeded in accordance with the Noxious Weed and Revegetation Plan. The remediation will be completed within 90 days of OCD approval of the plan.

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

Submitted by.

Larry Baker

Environmental Technician

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 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

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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: 6/6/2023

email: larry.baker@apachecorp.com Telephone: 432-250-8384

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: 6/6/2023
 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: 09/01/2023

Remediation plan is approved under the following conditions;

1. Final 5-point composite samples for the excavation sidewalls and bottom will be collected not to exceed 400 square feet.
2. Bullet #1 to meet reclamation standards for areas no longer in use.
3. Apache has 90-days (November 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: 192035
Date: Wednesday, March 8, 2023 2:50:23 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#) nAPP2234836277, 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. Please note delineation samples are not collected as composite samples, but depth discrete samples. Confirmation samples, after excavation, are collected as 5-point composite samples. Please resubmit a revised Remediation Plan to the OCD portal by April 10, 2023.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 192035.

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

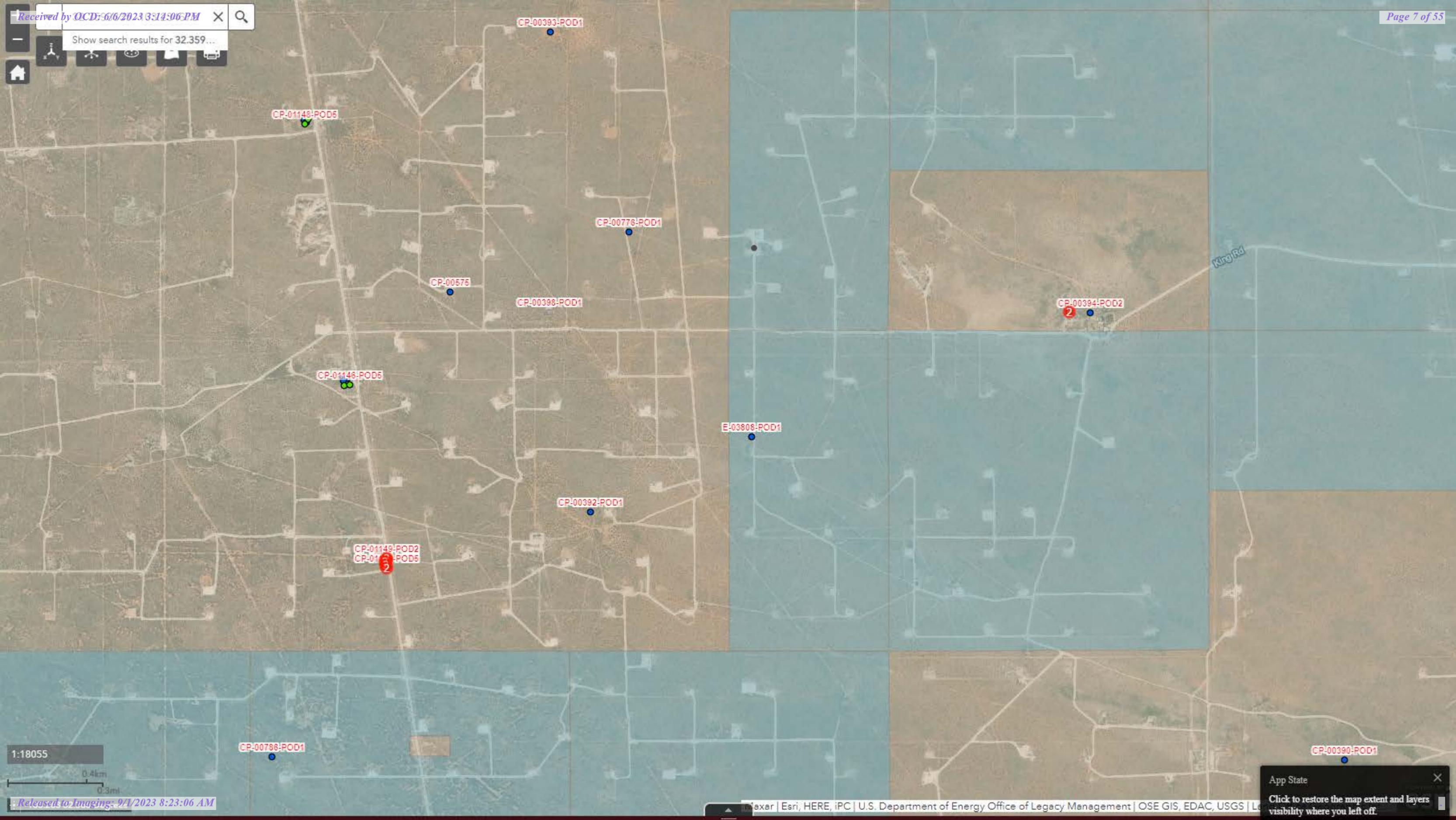
If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

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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Show search results for 32.359...



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 0.4km
 0.3mi

App State
 Click to restore the map extent and layers visibility where you left off.



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 Rev 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.

2/28/23 11:57 AM

POINT OF DIVERSION SUMMARY



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 POD2		410127	3863022 <input type="checkbox"/>

Driller License: 539	Driller Company: GARCIA BROTHERS DRILLING CO., LLC	
Driller Name: GARCIA, RAYMOND, JR.		
Drill Start Date: 05/08/1983	Drill Finish Date: 05/08/1983	Plug Date:
Log File Date: 05/19/1983	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 4 GPM
Casing Size: 5.00	Depth Well: 400 feet	Depth Water: 136 feet

Water Bearing Stratifications:	Top	Bottom	Description
	120	130	Shallow Alluvium/Basin Fill
	165	180	Shallow Alluvium/Basin Fill

Casing Perforations:	Top	Bottom
	160	180
	380	400

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.

2/28/23 11:58 AM

POINT OF DIVERSION SUMMARY



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 00575	3	4	27	22S	36E	664576	3581388*	<input type="checkbox"/>

Driller License: 46	Driller Company: ABBOTT BROTHERS COMPANY	
Driller Name: ABBOTT, MURRELL		
Drill Start Date: 11/07/1978	Drill Finish Date: 11/13/1978	Plug Date:
Log File Date: 11/16/1978	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield: 25 GPM
Casing Size: 6.63	Depth Well: 198 feet	Depth Water: 160 feet

Water Bearing Stratifications:	Top	Bottom	Description
	160	198	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	158	198

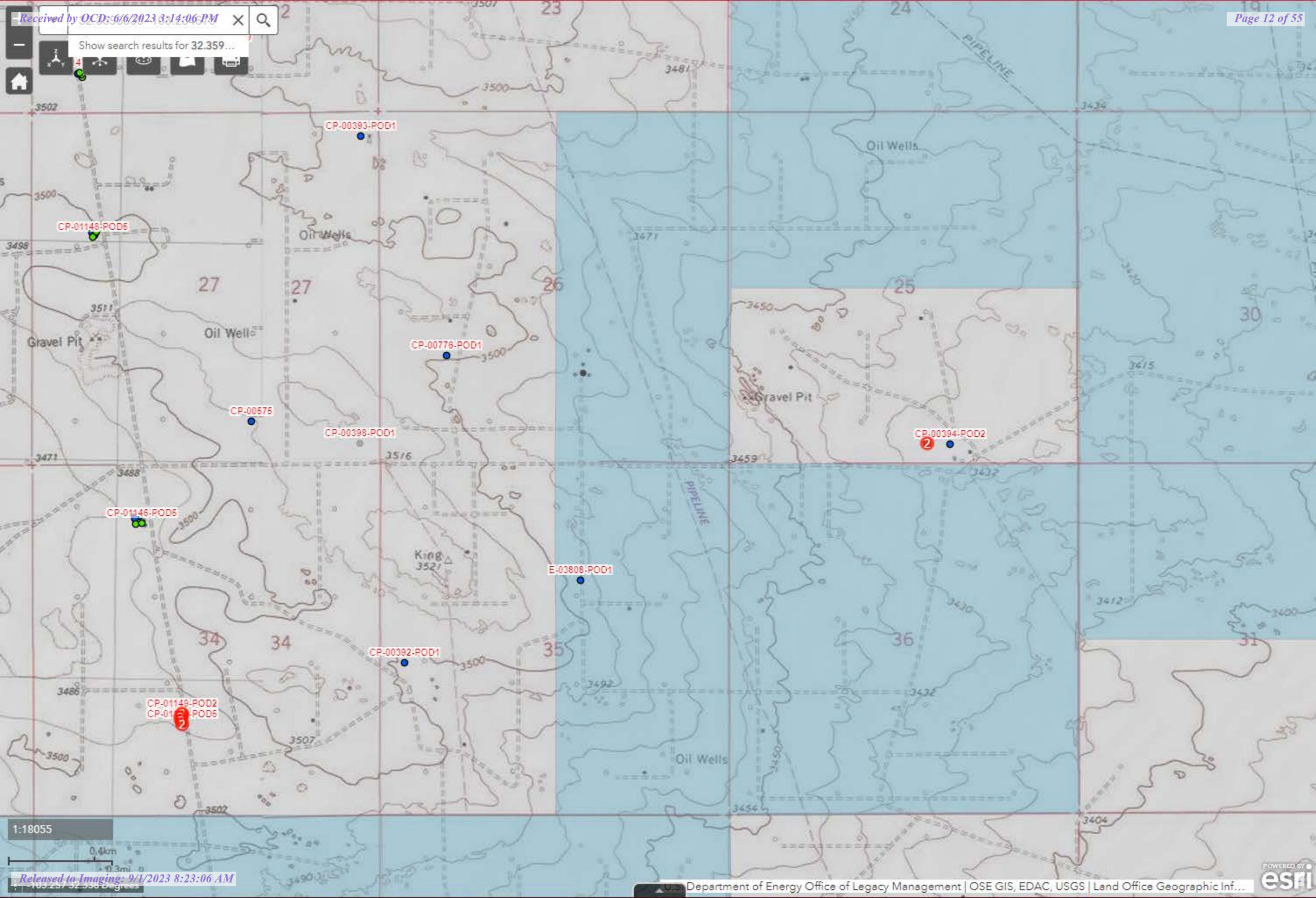
*UTM location was derived from PLSS - see Help

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.

2/28/23 11:59 AM

POINT OF DIVERSION SUMMARY

Show search results for 32.359...



1:18055

0.4km

0.3mi

Soil Bore

H1

SP1

H9

H8

SP2

SP4

SP3

H2

H3

SP5

H7

H4

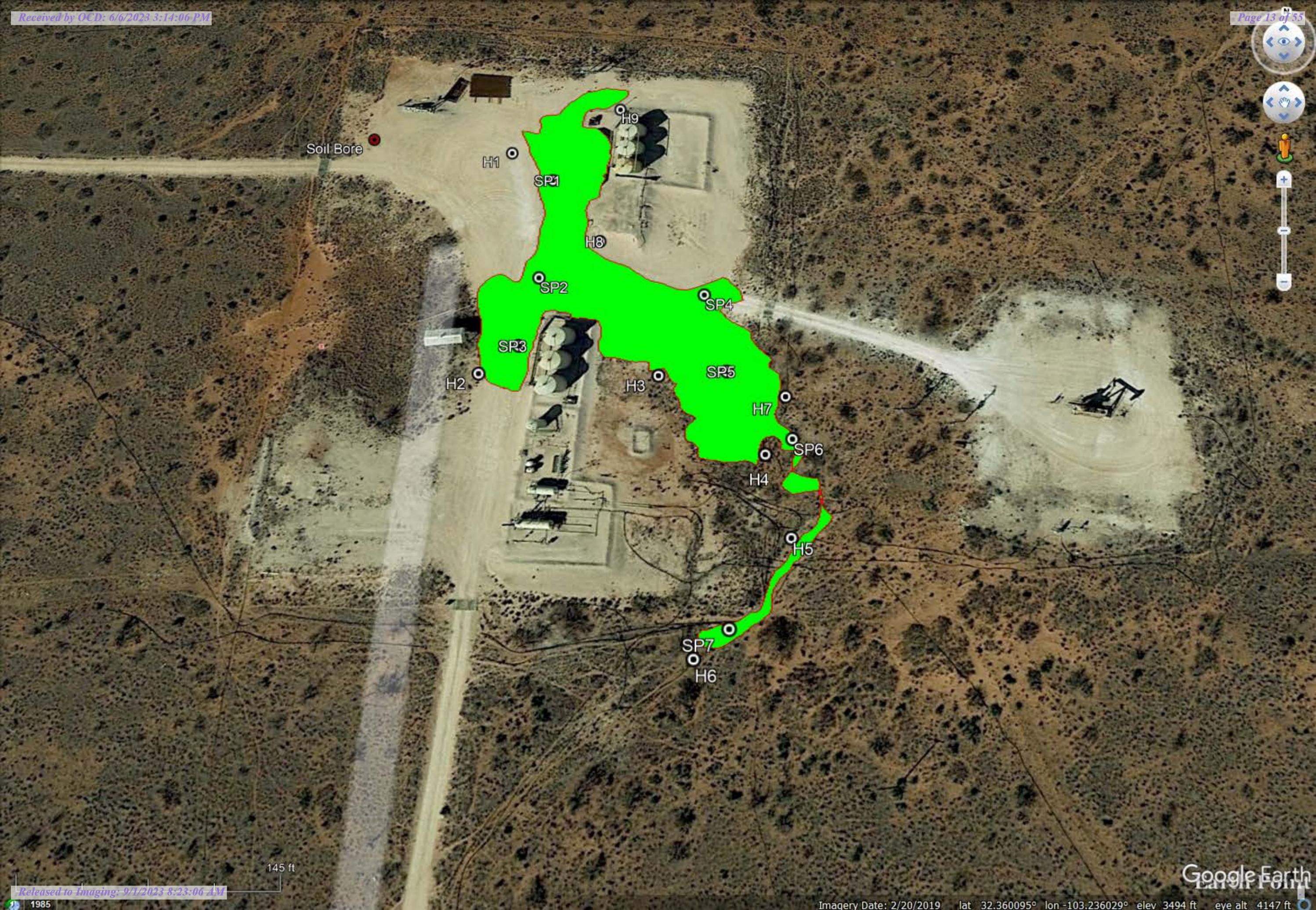
SP6

H5

SP7

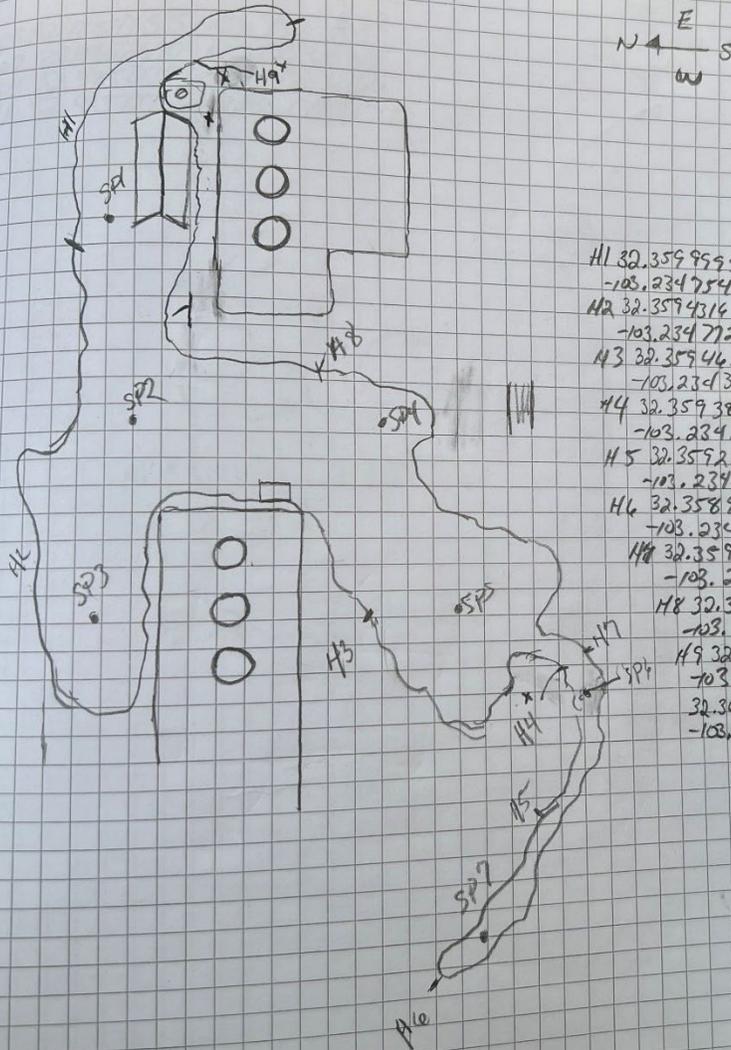
H6

145 ft



2926
 2969
 2346
 21652
 1749
 0706
 1340
 0458
 m451

Feb 13 2023 South Eunice Seven River Queen CTB



- H1 32.3599995
- 103.2347549
- H2 32.3594314
- 103.2347723
- H3 32.3594650
- 103.23413737
- H4 32.3593899
- 103.2341460
- H5 32.3592558
- 103.2340397
- H6 32.3589660
- 103.23412788
- H7 32.3593758
- 103.2341339
- H8 32.3597502
- 103.2345493
- H9 32.3600841
- 103.2345772
- 32.3600924
- 103.2345500

Delineation Samples

Sample Date	Sample ID	Depth	Chloride Lab	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
2/13/2023	SP1	Surface	7,800	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	75.6	14.4	32.3598893, -103.2347177
		1'	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
	SP2	Surface	6660	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	120	26.2	32.3596531, -103.2347170
		1'	144	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		1.5'	96	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
	SP3	Surface	20400	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.3594911, -103.2346861
		1'	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
	SP4	Surface	4400	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.3596760, -103.2342955
		1'	384	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
	SP5	Surface	2600	<0.200	0.834	4.61	11.7	17.1	331	7,490	1,100	32.3594826, -103.2342372
		1'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		2'	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
	SP6	Surface	1120	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.3593532, -103.2340726
		1'	432	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
	SP7	Surface	768	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.3589856, -103.2342174
		1'	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
2/13/2023	H1	Surface	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.359995, -103.2347549
2/13/2023	H2	Surface	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.3594316, -103.2347723
2/13/2023	H3	Surface	384	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.3594650, -103.2343737
2/13/2023	H4	Surface	1180	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
2/23/2023	H4	Surface	16									32.3593849, -103.2341460

2/13/2023	H5	Surface	32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.3592558, -103.2340397
2/13/2023	H6	Surface	144	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.3589660, -103.2342788
2/13/2023	H7	Surface	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.3593798, -103.2341339
2/13/2023	H8	Surface	368	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.3597502, -103.2345483
2/13/2023	H9	Surface	736	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
2/23/2023	H9	Surface	96.0									32.3600926, -103.2345530



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

February 20, 2023

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: SOUTH EUNICE SEVEN RIVER QUEEN CTB

Enclosed are the results of analyses for samples received by the laboratory on 02/13/23 15:48.

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".

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:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SOUTH EUNICE SEVEN RIVER QUEEN CT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 SURFACE (H230679-01)

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	02/18/2023	ND	2.06	103	2.00	2.55	
Toluene*	<0.050	0.050	02/18/2023	ND	2.10	105	2.00	1.29	
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.09	104	2.00	2.53	
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.43	107	6.00	0.993	
Total BTEX	<0.300	0.300	02/18/2023	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	7800	16.0	02/15/2023	ND	416	104	400	3.77	

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	02/16/2023	ND	202	101	200	0.302	
DRO >C10-C28*	75.6	10.0	02/16/2023	ND	180	89.9	200	5.34	
EXT DRO >C28-C36	14.4	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 79.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.0 % 49.1-148

Cardinal Laboratories

* = Accredited Analyte

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

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:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SOUTH EUNICE SEVEN RIVER QUEEN CT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 1' (H230679-02)

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	02/18/2023	ND	2.06	103	2.00	2.55	
Toluene*	<0.050	0.050	02/18/2023	ND	2.10	105	2.00	1.29	
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.09	104	2.00	2.53	
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.43	107	6.00	0.993	
Total BTEX	<0.300	0.300	02/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	80.0	16.0	02/15/2023	ND	416	104	400	3.77	

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	02/16/2023	ND	202	101	200	0.302	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	180	89.9	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.3 % 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:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SOUTH EUNICE SEVEN RIVER QUEEN CT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 SURFACE (H230679-03)

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	02/18/2023	ND	2.06	103	2.00	2.55	
Toluene*	<0.050	0.050	02/18/2023	ND	2.10	105	2.00	1.29	
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.09	104	2.00	2.53	
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.43	107	6.00	0.993	
Total BTEX	<0.300	0.300	02/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	6660	16.0	02/15/2023	ND	416	104	400	3.77	

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	02/16/2023	ND	202	101	200	0.302	
DRO >C10-C28*	120	10.0	02/16/2023	ND	180	89.9	200	5.34	
EXT DRO >C28-C36	26.2	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.8 % 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:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SOUTH EUNICE SEVEN RIVER QUEEN CT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 1' (H230679-04)

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	02/18/2023	ND	2.06	103	2.00	2.55	
Toluene*	<0.050	0.050	02/18/2023	ND	2.10	105	2.00	1.29	
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.09	104	2.00	2.53	
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.43	107	6.00	0.993	
Total BTEX	<0.300	0.300	02/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	02/15/2023	ND	416	104	400	3.77	

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	02/16/2023	ND	202	101	200	0.302	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	180	89.9	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 85.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 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:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SOUTH EUNICE SEVEN RIVER QUEEN CT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 1' 6" (H230679-05)

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	02/18/2023	ND	2.06	103	2.00	2.55	
Toluene*	<0.050	0.050	02/18/2023	ND	2.10	105	2.00	1.29	
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.09	104	2.00	2.53	
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.43	107	6.00	0.993	
Total BTEX	<0.300	0.300	02/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	96.0	16.0	02/15/2023	ND	416	104	400	3.77	

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	02/16/2023	ND	202	101	200	0.302	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	180	89.9	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 85.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.7 % 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:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SOUTH EUNICE SEVEN RIVER QUEEN CT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 3 SURFACE (H230679-06)

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	02/18/2023	ND	2.06	103	2.00	2.55	
Toluene*	<0.050	0.050	02/18/2023	ND	2.10	105	2.00	1.29	
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.09	104	2.00	2.53	
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.43	107	6.00	0.993	
Total BTEX	<0.300	0.300	02/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	20400	16.0	02/15/2023	ND	416	104	400	3.77	

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	02/16/2023	ND	193	96.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	211	106	200	8.36	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 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:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SOUTH EUNICE SEVEN RIVER QUEEN CT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 1' (H230679-07)

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	02/18/2023	ND	2.06	103	2.00	2.55	
Toluene*	<0.050	0.050	02/18/2023	ND	2.10	105	2.00	1.29	
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.09	104	2.00	2.53	
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.43	107	6.00	0.993	
Total BTEX	<0.300	0.300	02/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	80.0	16.0	02/16/2023	ND	448	112	400	7.41	

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	02/16/2023	ND	193	96.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	211	106	200	8.36	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 81.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.2 % 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:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SOUTH EUNICE SEVEN RIVER QUEEN CT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 4 SURFACE (H230679-08)

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	02/18/2023	ND	2.06	103	2.00	2.55	
Toluene*	<0.050	0.050	02/18/2023	ND	2.10	105	2.00	1.29	
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.09	104	2.00	2.53	
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.43	107	6.00	0.993	
Total BTEX	<0.300	0.300	02/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	4400	16.0	02/16/2023	ND	448	112	400	7.41	

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	02/16/2023	ND	193	96.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	211	106	200	8.36	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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

Analytical Results For:

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

Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SOUTH EUNICE SEVEN RIVER QUEEN CT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 1' (H230679-09)

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	02/18/2023	ND	2.06	103	2.00	2.55	
Toluene*	<0.050	0.050	02/18/2023	ND	2.10	105	2.00	1.29	
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.09	104	2.00	2.53	
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.43	107	6.00	0.993	
Total BTEX	<0.300	0.300	02/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	384	16.0	02/16/2023	ND	448	112	400	7.41	

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	02/16/2023	ND	193	96.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	211	106	200	8.36	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 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:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SOUTH EUNICE SEVEN RIVER QUEEN CT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 5 SURFACE (H230679-10)

BTEX 8021B		mg/kg		Analyzed By: JH/				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	02/18/2023	ND	2.06	103	2.00	2.55	
Toluene*	0.834	0.200	02/18/2023	ND	2.10	105	2.00	1.29	
Ethylbenzene*	4.61	0.200	02/18/2023	ND	2.09	104	2.00	2.53	
Total Xylenes*	11.7	0.600	02/18/2023	ND	6.43	107	6.00	0.993	
Total BTEX	17.1	1.20	02/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 160 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	02/16/2023	ND	448	112	400	7.41	

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*	331	50.0	02/16/2023	ND	193	96.4	200	3.66	
DRO >C10-C28*	7490	50.0	02/16/2023	ND	211	106	200	8.36	
EXT DRO >C28-C36	1100	50.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 151 % 48.2-134

Surrogate: 1-Chlorooctadecane 198 % 49.1-148

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Analytical Results For:

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

Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SOUTH EUNICE SEVEN RIVER QUEEN CT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ 1' (H230679-11)

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	02/18/2023	ND	2.06	103	2.00	2.55	
Toluene*	<0.050	0.050	02/18/2023	ND	2.10	105	2.00	1.29	
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.09	104	2.00	2.53	
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.43	107	6.00	0.993	
Total BTEX	<0.300	0.300	02/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	16.0	16.0	02/16/2023	ND	448	112	400	7.41	

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	02/16/2023	ND	193	96.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	211	106	200	8.36	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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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:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SOUTH EUNICE SEVEN RIVER QUEEN CT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ 2' (H230679-12)

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	02/18/2023	ND	2.06	103	2.00	2.55	
Toluene*	<0.050	0.050	02/18/2023	ND	2.10	105	2.00	1.29	
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.09	104	2.00	2.53	
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.43	107	6.00	0.993	
Total BTEX	<0.300	0.300	02/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	02/16/2023	ND	448	112	400	7.41	

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	02/16/2023	ND	193	96.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	211	106	200	8.36	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 64.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.4 % 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:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SOUTH EUNICE SEVEN RIVER QUEEN CT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 6 SURFACE (H230679-13)

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	02/18/2023	ND	2.06	103	2.00	2.55	
Toluene*	<0.050	0.050	02/18/2023	ND	2.10	105	2.00	1.29	
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.09	104	2.00	2.53	
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.43	107	6.00	0.993	
Total BTEX	<0.300	0.300	02/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	1120	16.0	02/16/2023	ND	448	112	400	7.41	

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	02/16/2023	ND	193	96.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	211	106	200	8.36	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 84.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 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:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SOUTH EUNICE SEVEN RIVER QUEEN CT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 6 @ 1' (H230679-14)

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	02/18/2023	ND	2.06	103	2.00	2.55	
Toluene*	<0.050	0.050	02/18/2023	ND	2.10	105	2.00	1.29	
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.09	104	2.00	2.53	
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.43	107	6.00	0.993	
Total BTEX	<0.300	0.300	02/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	432	16.0	02/16/2023	ND	448	112	400	7.41	

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	02/16/2023	ND	193	96.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	211	106	200	8.36	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 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:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SOUTH EUNICE SEVEN RIVER QUEEN CT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 7 SURFACE (H230679-15)

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	02/18/2023	ND	2.10	105	2.00	0.247	
Toluene*	<0.050	0.050	02/18/2023	ND	2.12	106	2.00	1.48	
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.09	105	2.00	1.61	
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.33	105	6.00	1.78	
Total BTEX	<0.300	0.300	02/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	768	16.0	02/16/2023	ND	448	112	400	7.41	

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	02/16/2023	ND	193	96.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	211	106	200	8.36	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 81.0 % 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:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/20/2023	Sampling Type:	Soil
Project Name:	SOUTH EUNICE SEVEN RIVER QUEEN CT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 7 @ 1' (H230679-16)

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	02/18/2023	ND	2.10	105	2.00	0.247	
Toluene*	<0.050	0.050	02/18/2023	ND	2.12	106	2.00	1.48	
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.09	105	2.00	1.61	
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.33	105	6.00	1.78	
Total BTEX	<0.300	0.300	02/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	240	16.0	02/16/2023	ND	448	112	400	7.41	

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	02/16/2023	ND	193	96.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	211	106	200	8.36	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 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.
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

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

Company Name: <u>Apache</u> Project Manager: <u>B. Baker</u>		P.O. #: _____ Company: _____ Attn: _____		
Address: _____ City: <u>Hobbs</u> State: <u>NM</u> zip: <u>88240</u>		Address: _____ City: _____ State: _____ Zip: _____		
Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____		City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____		
Project Name: _____ Project Location: <u>South Eunice Seven River Area CTB</u>				
Sampler Name: <u>Sgt. Deane</u>				
FOR LAB USE ONLY				
Lab I.D. <u>H230679</u> Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :	MATRIX ACID/BASE: ICE / COOL OTHER :	PRESERV DATE TIME	SAMPLING C1 BTEX EXT TPH

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Relinquished By: Sgt. Deane Date: 2/3/23 Received By: [Signature] Date: 2:44pm

Relinquished By: _____ Date: _____ Received By: _____ Date: _____

Delivered By: (Circle One) UPS Bus Other: _____

Observed Temp. °C: 3.6°C Corrected Temp. °C: 3.0

Sample Condition: Cool Intact Yes No

Checked By: [Signature] (Initials)

Turnaround Time: _____ Standard Rush

Thermometer ID #113 Correction Factor -0.6°C Bacteria (only) Cool Intact Yes No

Remarks: 3 Wa. / Results

Verbal Result: Yes No Add'l Phone #: _____

All Results are emailed. Please provide Email address: _____

Corrected Temp. °C: _____



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Apache</u> Project Manager: <u>B. Becker</u>		P.O. #: Company:	
Address: City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>		Attn: Address:	
Phone #: _____ Fax #: _____		City: _____ State: _____ Zip: _____	
Project Name: _____		Project Owner: _____	
Project Location: <u>Southwice Seven River Queen CTB</u>			
Sampler Name: <u>Soc Rivas</u>		Phone #: _____ Fax #: _____	
FOR LAB USE ONLY			
Lab I.D. # <u>H230679</u>	Sample I.D. # _____	(G)RAB OR (C)OMP.	# CONTAINERS
11 SPS @ 1'	1	GROUNDWATER	SOIL
12 SPS @ 2'	1	WASTEWATER	OIL
13 SPS @ Surface	1	SLUDGE	OTHER:
14 SPS @ 1'	1	ACID/BASE:	ICE / COOL
15 SPS @ Surface	1	OTHER:	DATE
16 SPS @ 1'	1	SAMPLED BY:	TIME
Relinquished By: <u>Soc Rivas</u>		Received By: <u>Jessica Williams</u>	
Date: <u>4/13/23</u>		Date: <u>3:48 pm</u>	
Relinquished By: _____		Received By: _____	
Date: _____		Date: _____	
Time: _____		Time: _____	
Delivered By: (Circle One)		Observed Temp. °C <u>36</u>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C <u>30</u>	
Sample Condition:		CHECKED BY: (Initials) <u>JS</u>	
Cool Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: _____	
Bacteria (only) Sample Condition:		Standard <input type="checkbox"/> Rush <input type="checkbox"/>	
Cool Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Bacteria (only) Sample Condition:	
Corrected Temp. °C _____		Observed Temp. °C _____	
REMARKS: <u>E-Me / Rivas JS</u>			
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____			
All Results are emailed. Please provide Email address: _____			



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

February 19, 2023

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: SOUTH EUNICE SEVEN RIVER QUEEN CTB

Enclosed are the results of analyses for samples received by the laboratory on 02/13/23 15:48.

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 written in a cursive 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:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/19/2023	Sampling Type:	Soil
Project Name:	SOUTH EUNICE SEVEN RIVER QUEEN CT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: H 1 (H230680-01)

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	02/18/2023	ND	2.10	105	2.00	0.247	
Toluene*	<0.050	0.050	02/18/2023	ND	2.12	106	2.00	1.48	
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.09	105	2.00	1.61	
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.33	105	6.00	1.78	
Total BTEX	<0.300	0.300	02/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	128	16.0	02/16/2023	ND	416	104	400	3.77	

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	02/16/2023	ND	193	96.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	211	106	200	8.36	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 88.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/19/2023	Sampling Type:	Soil
Project Name:	SOUTH EUNICE SEVEN RIVER QUEEN CT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: H 2 (H230680-02)

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	02/18/2023	ND	2.10	105	2.00	0.247	
Toluene*	<0.050	0.050	02/18/2023	ND	2.12	106	2.00	1.48	
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.09	105	2.00	1.61	
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.33	105	6.00	1.78	
Total BTEX	<0.300	0.300	02/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	160	16.0	02/16/2023	ND	416	104	400	3.77	

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	02/16/2023	ND	193	96.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	211	106	200	8.36	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/19/2023	Sampling Type:	Soil
Project Name:	SOUTH EUNICE SEVEN RIVER QUEEN CT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: H 3 (H230680-03)

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	02/18/2023	ND	2.10	105	2.00	0.247	
Toluene*	<0.050	0.050	02/18/2023	ND	2.12	106	2.00	1.48	
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.09	105	2.00	1.61	
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.33	105	6.00	1.78	
Total BTEX	<0.300	0.300	02/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	384	16.0	02/16/2023	ND	416	104	400	3.77	

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	02/16/2023	ND	193	96.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	211	106	200	8.36	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 85.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.1 % 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:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/19/2023	Sampling Type:	Soil
Project Name:	SOUTH EUNICE SEVEN RIVER QUEEN CT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: H 4 (H230680-04)

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	02/18/2023	ND	2.10	105	2.00	0.247	
Toluene*	<0.050	0.050	02/18/2023	ND	2.12	106	2.00	1.48	
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.09	105	2.00	1.61	
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.33	105	6.00	1.78	
Total BTEX	<0.300	0.300	02/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	1180	16.0	02/16/2023	ND	416	104	400	3.77	

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	02/16/2023	ND	193	96.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	211	106	200	8.36	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 82.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.5 % 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:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/19/2023	Sampling Type:	Soil
Project Name:	SOUTH EUNICE SEVEN RIVER QUEEN CT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: H 5 (H230680-05)

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	02/18/2023	ND	2.10	105	2.00	0.247	
Toluene*	<0.050	0.050	02/18/2023	ND	2.12	106	2.00	1.48	
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.09	105	2.00	1.61	
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.33	105	6.00	1.78	
Total BTEX	<0.300	0.300	02/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	02/16/2023	ND	416	104	400	3.77	

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	02/16/2023	ND	193	96.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	211	106	200	8.36	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 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:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/19/2023	Sampling Type:	Soil
Project Name:	SOUTH EUNICE SEVEN RIVER QUEEN CT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: H 6 (H230680-06)

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	02/18/2023	ND	2.10	105	2.00	0.247	
Toluene*	<0.050	0.050	02/18/2023	ND	2.12	106	2.00	1.48	
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.09	105	2.00	1.61	
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.33	105	6.00	1.78	
Total BTEX	<0.300	0.300	02/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	144	16.0	02/16/2023	ND	416	104	400	3.77	

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	02/16/2023	ND	193	96.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	211	106	200	8.36	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 72.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/19/2023	Sampling Type:	Soil
Project Name:	SOUTH EUNICE SEVEN RIVER QUEEN CT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: H 7 (H230680-07)

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	02/18/2023	ND	2.10	105	2.00	0.247	
Toluene*	<0.050	0.050	02/18/2023	ND	2.12	106	2.00	1.48	
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.09	105	2.00	1.61	
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.33	105	6.00	1.78	
Total BTEX	<0.300	0.300	02/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	48.0	16.0	02/16/2023	ND	416	104	400	3.77	

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	02/16/2023	ND	193	96.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	211	106	200	8.36	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 80.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 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:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/19/2023	Sampling Type:	Soil
Project Name:	SOUTH EUNICE SEVEN RIVER QUEEN CT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: H 8 (H230680-08)

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	02/18/2023	ND	2.10	105	2.00	0.247	
Toluene*	<0.050	0.050	02/18/2023	ND	2.12	106	2.00	1.48	
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.09	105	2.00	1.61	
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.33	105	6.00	1.78	
Total BTEX	<0.300	0.300	02/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	368	16.0	02/16/2023	ND	416	104	400	3.77	

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	02/16/2023	ND	193	96.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	211	106	200	8.36	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.4 % 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:	02/13/2023	Sampling Date:	02/13/2023
Reported:	02/19/2023	Sampling Type:	Soil
Project Name:	SOUTH EUNICE SEVEN RIVER QUEEN CT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: H 9 (H230680-09)

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	02/18/2023	ND	2.10	105	2.00	0.247	
Toluene*	<0.050	0.050	02/18/2023	ND	2.12	106	2.00	1.48	
Ethylbenzene*	<0.050	0.050	02/18/2023	ND	2.09	105	2.00	1.61	
Total Xylenes*	<0.150	0.150	02/18/2023	ND	6.33	105	6.00	1.78	
Total BTEX	<0.300	0.300	02/18/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	736	16.0	02/16/2023	ND	416	104	400	3.77	

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	02/16/2023	ND	193	96.4	200	3.66	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	211	106	200	8.36	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 49.1-148

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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

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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February 23, 2023

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: SOUTH EUNICE SEVEN RIVER QUEEN CTB

Enclosed are the results of analyses for samples received by the laboratory on 02/23/23 13:15.

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".

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:	02/23/2023	Sampling Date:	02/23/2023
Reported:	02/23/2023	Sampling Type:	Soil
Project Name:	SOUTH EUNICE SEVEN RIVER QUEEN CT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: H 4 (H230849-01)

Chloride, SM4500CI-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	02/23/2023	ND	416	104	400	0.00	

Sample ID: H 9 (H230849-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/23/2023	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
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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: Apacm
Project Manager: B. Baker

Address: _____

City: Hobbs State: NM Zip: 88246

Phone #: _____ Fax #: _____

Project #: _____ Project Owner: _____

Project Name: _____

Project Location: South Eunic Seven River Queen CTB

Sampler Name: José Quaresada

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX						PRESERV	SAMPLING	DATE	TIME
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :				
<u>H230849</u>	<u>1 H4</u>	<u>C</u>	<u>1</u>			<u>1</u>					<u>3/23</u>	<u>12:05pm</u>	<u>1</u>
	<u>2 H4</u>	<u>C</u>	<u>1</u>			<u>1</u>					<u>3/23</u>	<u>12:20pm</u>	<u>1</u>

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Relinquished By: José Quaresada
Date: 3/23/23
Time: 1:15pm

Received By: [Signature]
Date: _____
Time: _____

Relinquished By: José Quaresada

Observed Temp. °C: 5.3
Corrected Temp. °C: 4.7

Sample Condition: Cool Intact
 Yes No

Checked By: [Signature]
Thermometer ID #113: 24hrs
Correction Factor: None

Remarks: E-Mail Results



**Revegetation
And
Noxious Weed Plan**

Revegetation Plan:

All the disturbed area in the pasture will be properly prepared and reseeded with NMSLO Sandy Loam 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 224663

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 224663
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvez	Remediation plan is approved under the following conditions; 1. Final 5-point composite samples for the excavation sidewalls and bottom will be collected not to exceed 400 square feet. 2. Bullet #1 to meet reclamation standards for areas no longer in use. 3. Apache has 90-days (November 30, 2023) to complete and submit the appropriate or final closure report.	9/1/2023