



303 Veterans Airpark Lane Midland, TX 79705

Closure Report

September 28, 2021

Re: NMGSAU # 368
Case nAPP21028412861

On 1/20/2021 a release occurred due to a 3 inch steel flow line failed. The release (GPS: 32.64151, -103.29008) is located west of Monument, New Mexico in unit letter O section 19 township 21S range 37E. A groundwater survey was conducted utilizing NMOSE wells of record. The nearest well of record suggest the groundwater depth below the release to be 21 feet below ground surface. A remediation plan was submitted an approved by OCD.

The release area was excavated in accordance with the approved plan. Final 5 point bottom and wall composite samples were collect not to exceed 200 square feet. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. All laboratory results were below table one standards for releases less than 50 feet to groundwater. All excavated material was hauled to an OCD approved disposal facility. The excavation was backfilled with clean imported caliche and the pad restored.

Apache Corporation has remediated the release to below table one standards and respectfully request that event # nAPP21028412861 be closed.

Enclosed: C-141, Maps, Sample Data, Laboratory Results, Field Notes, and Photos.

Submitted by;

Bruce Baker

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

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: 9/28/2021

email: larry.baker@apachecorp.com

Telephone: 432-631-6982

OCD Only

Received by: Chad Hensley

Date: 10/15/2021

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: Chad Hensley

Date: 10/15/2021

Printed Name: Chad Hensley

Title: Environmental Specialist Advanced



Google Earth

Map ID	Sample Date	Sample ID	Depth	Field Chloride	LAB Chloride	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO
Final Wall Samples													
W1	9/8/2021	W1 @ 0-1'	1'	238	16	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0
W2	9/8/2021	W2 @ 0-1'	1'	147	16	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0
W3	9/8/2021	W3 @ 0-1'	1'	145	<16.0	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0
W4	9/10/2021	W4 @ 0-2'	2'	283	<16.0	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0
W5	9/10/2021	W5 @ 0-2'	2'	285	<16.0	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0
Final Bottom Samples													
B1	9/8/2021	B1 @ 0-1'	1'	148	<16.0	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0
B2	9/8/2021	B2 @ 0-1'	1'	146	16	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0
B3	9/8/2021	B3 @ 0-1'	1'	148	16	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0
B4	9/8/2021	B4 @ 0-1'	1'	141	32	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0
B5	9/8/2021	B5 @ 0-1'	1'	145	32	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0
B6	9/8/2021	B6 @ 0-1'	1'	375	32	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0
B7	9/8/2021	B7 @ 0-1'	1'	143	32	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0
B8	9/10/2021	B8 @ 0-2'	2'	290	16	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0
B9	9/10/2021	B9 @ 0-2'	2'	231	<16.0	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0
B10	9/10/2021	B10 @ 0-2'	2'	290	<16.0	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0
B11	9/10/2021	B11 @ 0-2'	2'	238	16	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0

B10 @ 2' -

$$10.4 / 30.3 = 2.91 = .10 = 290 \checkmark$$

B11 @ 2'

$$10.1 / 30.1 = 2.98 = .08 = 238 \checkmark$$

GPS Coordinates NM65AN 368

W1 - 32.641569, -103.289914

W2 - 32.641477, -103.289974

W3 - 32.641546, -103.290067

B1 - 32.641464, -103.290090

B2 - 32.641528, -103.289886

B3 - 32.641556, -103.289963

B4 - 32.641509, -103.289947

B5 - 32.641491, -103.289990

B6 - 32.641544, -103.290012

B7 - 32.641545, -103.290056

W4 - 32.641464, -103.290090

W5 - 32.641484, -103.290129

B8 - 32.641539, -103.290132

B9 - 32.641501, -103.290116

B10 - 32.641458, -103.290114

B11 - 32.641431, -103.290127



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

September 13, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NMGSAU #368

Enclosed are the results of analyses for samples received by the laboratory on 09/08/21 15:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

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: 09/08/2021
 Reported: 09/13/2021
 Project Name: NMGSAU #368
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/08/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: W 1 @ 0-1' (H212489-01)

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	09/10/2021	ND	2.02	101	2.00	7.85	
Toluene*	<0.050	0.050	09/10/2021	ND	2.02	101	2.00	8.88	
Ethylbenzene*	<0.050	0.050	09/10/2021	ND	2.04	102	2.00	9.07	
Total Xylenes*	<0.150	0.150	09/10/2021	ND	6.24	104	6.00	8.24	
Total BTEX	<0.300	0.300	09/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	16.0	16.0	09/10/2021	ND	432	108	400	7.69	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2021	ND	218	109	200	3.95	
DRO >C10-C28*	<10.0	10.0	09/11/2021	ND	220	110	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	09/11/2021	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-133

Surrogate: 1-Chlorooctadecane 108 % 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
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 09/08/2021
 Reported: 09/13/2021
 Project Name: NMGS AU #368
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/08/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: W 2 @ 0-1' (H212489-02)

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	09/10/2021	ND	2.02	101	2.00	7.85	
Toluene*	<0.050	0.050	09/10/2021	ND	2.02	101	2.00	8.88	
Ethylbenzene*	<0.050	0.050	09/10/2021	ND	2.04	102	2.00	9.07	
Total Xylenes*	<0.150	0.150	09/10/2021	ND	6.24	104	6.00	8.24	
Total BTEx	<0.300	0.300	09/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	16.0	16.0	09/10/2021	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2021	ND	218	109	200	3.95	
DRO >C10-C28*	<10.0	10.0	09/11/2021	ND	220	110	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	09/11/2021	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-133

Surrogate: 1-Chlorooctadecane 105 % 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
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 09/08/2021
 Reported: 09/13/2021
 Project Name: NMGS AU #368
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/08/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: W 3 @ 0-1' (H212489-03)

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	09/10/2021	ND	2.02	101	2.00	7.85	
Toluene*	<0.050	0.050	09/10/2021	ND	2.02	101	2.00	8.88	
Ethylbenzene*	<0.050	0.050	09/10/2021	ND	2.04	102	2.00	9.07	
Total Xylenes*	<0.150	0.150	09/10/2021	ND	6.24	104	6.00	8.24	
Total BTEx	<0.300	0.300	09/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	<16.0	16.0	09/10/2021	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2021	ND	218	109	200	3.95	
DRO >C10-C28*	<10.0	10.0	09/11/2021	ND	220	110	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	09/11/2021	ND					

Surrogate: 1-Chlorooctane 108 % 44.3-133

Surrogate: 1-Chlorooctadecane 112 % 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

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", is written over a horizontal line.

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: *Apache Corporation*

Project Manager: *Bruce Baker*

Address:

City: State: Zip:

Phone #: Fax #: Project Owner:

Project #: City: State: Zip:

Project Name: *NM65AU 368*

Project Location: *NM65AU 368*

Sampler Name: *Jeff Brown*

FOR LAB USE ONLY

Lab I.D. Sample I.D.

H218489
1 W1 @ 0-1'
2 W2 @ 0-1'
3 W3 @ 0-1'

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE TIME

CL-

BTEX

EXT. TPH

PLEASE NOTE: Liability and Damages. Cardinal's liability and clients' 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 interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Received By:

Date:

Time:

Remarks:

Verbal Result:

Yes No Add'l Phone #:

All Results are emailed. Please provide Email address:

Standard

Rush

Bacteria (only) Sample Condition

Cool Intact Observed Temp. °C

Corrected Temp. °C

Thermometer ID #113

Correction Factor None

Turnaround Time:

Thermometer ID #113

Correction Factor None

Standard

Rush

Bacteria (only) Sample Condition

Cool Intact Observed Temp. °C

Corrected Temp. °C

Thermometer ID #113

Correction Factor None

Turnaround Time:

Thermometer ID #113

Correction Factor None

Standard

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Correction Factor None

Standard

Rush

Bacteria (only) Sample Condition



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

September 13, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NMGSAU #368

Enclosed are the results of analyses for samples received by the laboratory on 09/08/21 15:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/08/2021
 Reported: 09/13/2021
 Project Name: NMGSAU #368
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/08/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: B 1 @ 0-1' (H212490-01)

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	09/10/2021	ND	2.02	101	2.00	7.85	
Toluene*	<0.050	0.050	09/10/2021	ND	2.02	101	2.00	8.88	
Ethylbenzene*	<0.050	0.050	09/10/2021	ND	2.04	102	2.00	9.07	
Total Xylenes*	<0.150	0.150	09/10/2021	ND	6.24	104	6.00	8.24	
Total BTEX	<0.300	0.300	09/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	<16.0	16.0	09/10/2021	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2021	ND	218	109	200	3.95	
DRO >C10-C28*	<10.0	10.0	09/11/2021	ND	220	110	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	09/11/2021	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-133

Surrogate: 1-Chlorooctadecane 110 % 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
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 09/08/2021
 Reported: 09/13/2021
 Project Name: NMGS AU #368
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/08/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: B 2 @ 0-1' (H212490-02)

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	09/10/2021	ND	2.02	101	2.00	7.85		
Toluene*	<0.050	0.050	09/10/2021	ND	2.02	101	2.00	8.88		
Ethylbenzene*	<0.050	0.050	09/10/2021	ND	2.04	102	2.00	9.07		
Total Xylenes*	<0.150	0.150	09/10/2021	ND	6.24	104	6.00	8.24		
Total BTX	<0.300	0.300	09/10/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	16.0	16.0	09/10/2021	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2021	ND	218	109	200	3.95	
DRO >C10-C28*	<10.0	10.0	09/11/2021	ND	220	110	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	09/11/2021	ND					

Surrogate: 1-Chlorooctane 105 % 44.3-133

Surrogate: 1-Chlorooctadecane 109 % 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
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 09/08/2021
 Reported: 09/13/2021
 Project Name: NMGS AU #368
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/08/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: B 3 @ 0-1' (H212490-03)

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	09/10/2021	ND	2.02	101	2.00	7.85	
Toluene*	<0.050	0.050	09/10/2021	ND	2.02	101	2.00	8.88	
Ethylbenzene*	<0.050	0.050	09/10/2021	ND	2.04	102	2.00	9.07	
Total Xylenes*	<0.150	0.150	09/10/2021	ND	6.24	104	6.00	8.24	
Total BTEx	<0.300	0.300	09/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	16.0	16.0	09/10/2021	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2021	ND	218	109	200	3.95	
DRO >C10-C28*	<10.0	10.0	09/11/2021	ND	220	110	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	09/11/2021	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-133

Surrogate: 1-Chlorooctadecane 110 % 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
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 09/08/2021
 Reported: 09/13/2021
 Project Name: NMGS AU #368
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/08/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: B 4 @ 0-1' (H212490-04)

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	09/10/2021	ND	2.02	101	2.00	7.85	
Toluene*	<0.050	0.050	09/10/2021	ND	2.02	101	2.00	8.88	
Ethylbenzene*	<0.050	0.050	09/10/2021	ND	2.04	102	2.00	9.07	
Total Xylenes*	<0.150	0.150	09/10/2021	ND	6.24	104	6.00	8.24	
Total BTEx	<0.300	0.300	09/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/10/2021	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2021	ND	218	109	200	3.95	
DRO >C10-C28*	<10.0	10.0	09/11/2021	ND	220	110	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	09/11/2021	ND					

Surrogate: 1-Chlorooctane 105 % 44.3-133

Surrogate: 1-Chlorooctadecane 110 % 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
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 09/08/2021
 Reported: 09/13/2021
 Project Name: NMGS AU #368
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/08/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: B 5 @ 0-1' (H212490-05)

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	09/10/2021	ND	2.02	101	2.00	7.85		
Toluene*	<0.050	0.050	09/10/2021	ND	2.02	101	2.00	8.88		
Ethylbenzene*	<0.050	0.050	09/10/2021	ND	2.04	102	2.00	9.07		
Total Xylenes*	<0.150	0.150	09/10/2021	ND	6.24	104	6.00	8.24		
Total BTEx	<0.300	0.300	09/10/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/10/2021	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2021	ND	218	109	200	3.95	
DRO >C10-C28*	<10.0	10.0	09/11/2021	ND	220	110	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	09/11/2021	ND					

Surrogate: 1-Chlorooctane 104 % 44.3-133

Surrogate: 1-Chlorooctadecane 109 % 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
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 09/08/2021
 Reported: 09/13/2021
 Project Name: NMGS AU #368
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/08/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: B 6 @ 0-1' (H212490-06)

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	09/10/2021	ND	2.02	101	2.00	7.85		
Toluene*	<0.050	0.050	09/10/2021	ND	2.02	101	2.00	8.88		
Ethylbenzene*	<0.050	0.050	09/10/2021	ND	2.04	102	2.00	9.07		
Total Xylenes*	<0.150	0.150	09/10/2021	ND	6.24	104	6.00	8.24		
Total BTEx	<0.300	0.300	09/10/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/10/2021	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2021	ND	218	109	200	3.95	
DRO >C10-C28*	<10.0	10.0	09/11/2021	ND	220	110	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	09/11/2021	ND					

Surrogate: 1-Chlorooctane 93.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.1 % 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
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 09/08/2021
 Reported: 09/13/2021
 Project Name: NMGS AU #368
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/08/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: B 7 @ 0-1' (H212490-07)

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	09/10/2021	ND	2.02	101	2.00	7.85	
Toluene*	<0.050	0.050	09/10/2021	ND	2.02	101	2.00	8.88	
Ethylbenzene*	<0.050	0.050	09/10/2021	ND	2.04	102	2.00	9.07	
Total Xylenes*	<0.150	0.150	09/10/2021	ND	6.24	104	6.00	8.24	
Total BTEx	<0.300	0.300	09/10/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	16.0	16.0	09/10/2021	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2021	ND	218	109	200	3.95	
DRO >C10-C28*	<10.0	10.0	09/11/2021	ND	220	110	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	09/11/2021	ND					

Surrogate: 1-Chlorooctane 97.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 103 % 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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apache Corporation		P.O. #:		ANALYSIS REQUEST	
Project Manager: Bruce Baker		Company:			
Address:		Attn:			
City:	State:	Zip:			
Phone #:	Fax #:				
Project #:	Project Owner:	City:	State:	Zip:	
Project Name: NM658A 368		Phone #:			
Project Location: NM658A 368		Fax #:			
Sampler Name: Jeff Brown					

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.			DATE	TIME	CL-	BTEX	EXT. TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :					
H212490													9/8/21	0925	✓	✓	✓
1	B1 @ 0-1'	C		✓										0930	✓	✓	✓
2	B2 @ 0-1'	C		✓										0935	✓	✓	✓
3	B3 @ 0-1'	C		✓										0940	✓	✓	✓
4	B4 @ 0-1'	C		✓										0945	✓	✓	✓
5	B5 @ 0-1'	C		✓										0950	✓	✓	✓
6	B6 @ 0-1'	C		✓										0955	✓	✓	✓
7	B7 @ 0-1'	C															

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Relinquished By: Jeff Brown	Date: 9/8/21	Received By: Debi Mendez	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:
Relinquished By: Jeff Brown	Date: 9/8/21	Received By: Debi Mendez	All Results are emailed. Please provide Email address:
Delivered By: (Circle One)	Observed Temp. °C: 5.4	Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact	CHECKED BY: [Signature]
Sampler - UPS - Bus - Other:	Corrected Temp. °C:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>
		<input type="checkbox"/> Yes <input type="checkbox"/> No	Bacteria (only) Sample Condition: <input type="checkbox"/> Cool <input type="checkbox"/> Intact
		<input type="checkbox"/> Yes <input type="checkbox"/> No	Thermometer ID #113 <input type="checkbox"/> Correction Factor None <input type="checkbox"/>
		<input type="checkbox"/> Yes <input type="checkbox"/> No	Observed Temp. °C: 5.4
		<input type="checkbox"/> Yes <input type="checkbox"/> No	Corrected Temp. °C:

FOR CARDINAL USE ONLY

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



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

September 14, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NMGSAU #368

Enclosed are the results of analyses for samples received by the laboratory on 09/10/21 11:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/10/2021
 Reported: 09/14/2021
 Project Name: NMGSAU #368
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/10/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: B 8 @ 0-2' (H212506-01)

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	09/11/2021	ND	1.86	92.9	2.00	1.31		
Toluene*	<0.050	0.050	09/11/2021	ND	2.04	102	2.00	1.42		
Ethylbenzene*	<0.050	0.050	09/11/2021	ND	2.01	101	2.00	1.51		
Total Xylenes*	<0.150	0.150	09/11/2021	ND	6.06	101	6.00	1.38		
Total BTX	<0.300	0.300	09/11/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

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	09/13/2021	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	09/12/2021	ND	216	108	200	1.73	
DRO >C10-C28*	<10.0	10.0	09/12/2021	ND	220	110	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	09/12/2021	ND					

Surrogate: 1-Chlorooctane 85.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.3 % 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
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 09/10/2021
 Reported: 09/14/2021
 Project Name: NMGS AU #368
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/10/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: B 9 @ 0-2' (H212506-02)

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	09/11/2021	ND	1.86	92.9	2.00	1.31	
Toluene*	<0.050	0.050	09/11/2021	ND	2.04	102	2.00	1.42	
Ethylbenzene*	<0.050	0.050	09/11/2021	ND	2.01	101	2.00	1.51	
Total Xylenes*	<0.150	0.150	09/11/2021	ND	6.06	101	6.00	1.38	
Total BTX	<0.300	0.300	09/11/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

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	09/13/2021	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	09/12/2021	ND	216	108	200	1.73	
DRO >C10-C28*	<10.0	10.0	09/12/2021	ND	220	110	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	09/12/2021	ND					

Surrogate: 1-Chlorooctane 95.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 99.4 % 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
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 09/10/2021
 Reported: 09/14/2021
 Project Name: NMGS AU #368
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/10/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: B 10 @ 0-2' (H212506-03)

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	09/11/2021	ND	1.86	92.9	2.00	1.31		
Toluene*	<0.050	0.050	09/11/2021	ND	2.04	102	2.00	1.42		
Ethylbenzene*	<0.050	0.050	09/11/2021	ND	2.01	101	2.00	1.51		
Total Xylenes*	<0.150	0.150	09/11/2021	ND	6.06	101	6.00	1.38		
Total BTX	<0.300	0.300	09/11/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

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	09/13/2021	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	09/13/2021	ND	211	105	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	188	93.9	200	5.28	
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND					

Surrogate: 1-Chlorooctane 96.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.9 % 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
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 09/10/2021
 Reported: 09/14/2021
 Project Name: NMGS AU #368
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/10/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: B 11 @ 0-2' (H212506-04)

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	09/11/2021	ND	1.86	92.9	2.00	1.31	
Toluene*	<0.050	0.050	09/11/2021	ND	2.04	102	2.00	1.42	
Ethylbenzene*	<0.050	0.050	09/11/2021	ND	2.01	101	2.00	1.51	
Total Xylenes*	<0.150	0.150	09/11/2021	ND	6.06	101	6.00	1.38	
Total BTX	<0.300	0.300	09/11/2021	ND					

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

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	09/13/2021	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	09/13/2021	ND	211	105	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	188	93.9	200	5.28	
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND					

Surrogate: 1-Chlorooctane 95.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 96.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

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

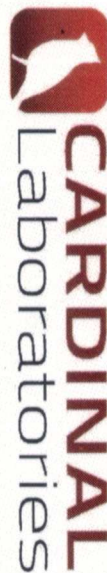
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

September 14, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NMGSAU #368

Enclosed are the results of analyses for samples received by the laboratory on 09/10/21 11:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/10/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	NMGS AU #368	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 4 @ 0-2' (H212507-01)

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	09/11/2021	ND	1.86	92.9	2.00	1.31	
Toluene*	<0.050	0.050	09/11/2021	ND	2.04	102	2.00	1.42	
Ethylbenzene*	<0.050	0.050	09/11/2021	ND	2.01	101	2.00	1.51	
Total Xylenes*	<0.150	0.150	09/11/2021	ND	6.06	101	6.00	1.38	
Total BTX	<0.300	0.300	09/11/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

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	09/13/2021	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	09/13/2021	ND	211	105	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	188	93.9	200	5.28	
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND					

Surrogate: 1-Chlorooctane 93.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.3 % 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
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 09/10/2021
 Reported: 09/14/2021
 Project Name: NMGS AU #368
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/10/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: W 5 @ 0-2' (H212507-02)

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	09/11/2021	ND	1.86	92.9	2.00	1.31	
Toluene*	<0.050	0.050	09/11/2021	ND	2.04	102	2.00	1.42	
Ethylbenzene*	<0.050	0.050	09/11/2021	ND	2.01	101	2.00	1.51	
Total Xylenes*	<0.150	0.150	09/11/2021	ND	6.06	101	6.00	1.38	
Total BTX	<0.300	0.300	09/11/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

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	09/13/2021	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	09/13/2021	ND	211	105	200	4.05	
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	188	93.9	200	5.28	
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND					

Surrogate: 1-Chlorooctane 92.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.2 % 38.9-142

Cardinal Laboratories

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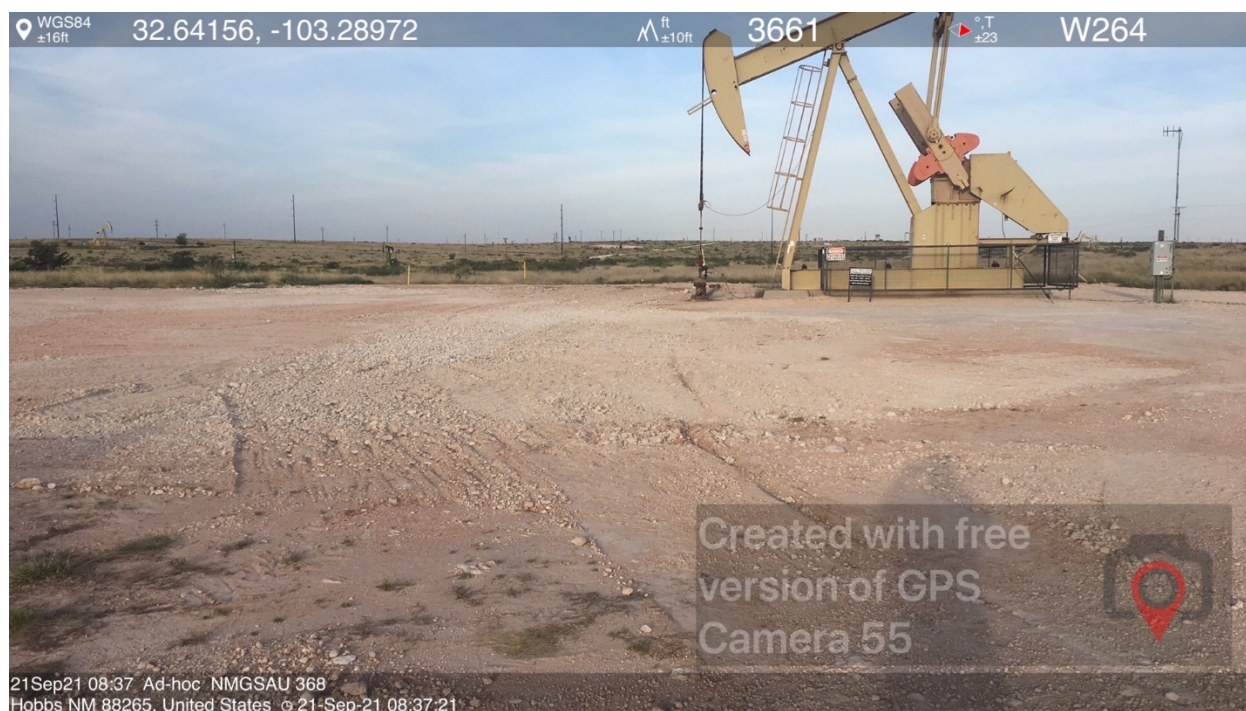
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

**BILL TO**Page 5 of 5





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 52437

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 52437
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	10/15/2021