



303 Veterans Airpark Lane Midland, TX 79705

Closure Report

May 4, 2021

Re: WBDU 144H
Case #NRM2028760472

On 09/30/2020 a release occurred due to a packing failure. The release (GPS: 32.48397, -103.18335) is located north of Eunice, New Mexico in unit letter B section 17 township 21S range 37E. A groundwater survey was conducted utilizing NMOSE and USGS. The nearest well of record suggest the groundwater depth below the release to be 70 feet below ground surface. A remediation plan was submitted and approved by OCD on 2/4/2021.

The release area was excavated to a depth of 3 inches. On 4/7/2021 5 point bottom and wall samples were collected not to exceed 200 square feet. All samples were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Laboratory analysis were above table one standards for chlorides at B2 and B4 through B8. B2 was above table one standards for TPH. Those areas were further excavated to a depth of 6 inches. On 4/14/2021 final 5 point bottom and wall samples were collected not to exceed 200 square feet and submitted to a commercial laboratory for analysis of chloride and B2 for TPH. Laboratory results were above table one standards for chlorides at W5. W5 was removed and a final wall sample was collected on 4/16/2021 and submitted to a commercial laboratory for chloride. Also on 4/16/2021 two additional walls were collected W7 and W8 and submitted to a commercial laboratory for chloride, TPH, and BTEX. All excavated soil (108 yards) was hauled to OCD approved disposal facility. The excavation was backfilled with clean imported caliche and the pad was restored.

Apache Corporation has remediated the release to below table one standards for releases 51-100 feet to groundwater and respectfully request that event # NRM2028760472 be closed.

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

Submitted by;

Bruce Baker

Environmental Technician SR.

Larry.baker@apachecorp.com

Cell# 432-631-6982

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- 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: 5/4/2021
 email: larry.baker@apachecorp.com Telephone: 432-631-6982

OCD Only

Received by: Chad Hensley Date: 07/30/2021

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: 07/30/2021
 Printed Name: Chad Hensley Title: Environmental Specialist Advanced



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Google Earth

Final Bottom Samples

Sample Date	Sample ID	Depth	Chloride Lab	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
4/7/2021	B1	3"	7,840	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	20	<10.0	32.483952, -103.183441
4/7/2021	B2	3"	10,400	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1500	1510	32.483987, -103.183431
4/14/2021	B2	6"	1,960						<10.0	<10.0	<10.0	
4/7/2021	B3	3"	9,730	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	141	191	32.483983, -103.183373
4/7/2021	B4	3"	10,100	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	102	35.9	32.484003, -103.183333
4/14/2021	B4	6"	4,260									
4/7/2021	B5	3"	11,200	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.484016, -103.183298
4/14/2021	B5	6"	5,840									
4/7/2021	B6	3"	11,500	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.484032, -103.183266
4/14/2021	B6	6"	2,400									
4/7/2021	B7	3"	12,300	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	58.5	17.8	32.484045, -103.183232
4/14/2021	B7	6"	1,960									
4/7/2021	B8	3"	12,000	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	137	42.5	32.484059, -103.183202
4/14/2021	B8	6"	2,280									
4/7/2021	B9	3"	8,530	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	174	43.4	32.484071, -103.183165
4/7/2021	B10	3"	3,920	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	396	105	32.484084, -103.183133
4/7/2021	B11	3"	2,120	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	118	36.2	32.484096, -103.183100
4/7/2021	B12	3"	3,240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	133	33.7	32.484110, -103.183062
4/7/2021	B13	3"	4,320	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	194	64.8	32.484123, -103.183039

4/7/2021	B14	3"	2,760	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	43.2	36.2	32.484146, -103.183070
4/7/2021	B15	3"	2,400	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.484170, -103.183100
4/7/2021	B16	3"	1,420	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	88.2	20.7	32.484187, -103.183131
Final Wall Samples												
4/7/2021	W1		48.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.484065, -103.183249
4/7/2021	W2		32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.484163, -103.183069
4/7/2021	W3		32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.484034, -103.183216
4/7/2021	W4		48.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.483965, -103.183459
4/14/2021	W5		12,600						<10.0	170	43.5	
4/16/2021	W5		2,840									32.483066, -103.183184
4/14/2021	W6		9,330						<10.0	12.0	<10.0	32.483991, -103.183353
4/16/2021	W7		4,240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.483989, -103.183395
4/16/2021	W8		3,040	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.483974, -103.183443



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

April 09, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WBDU 144H

Enclosed are the results of analyses for samples received by the laboratory on 04/07/21 16:05.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is 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:	04/07/2021	Sampling Date:	04/07/2021
Reported:	04/09/2021	Sampling Type:	Soil
Project Name:	WBDU 144H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: B 1 @ 3" (H210882-01)

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	04/09/2021	ND	1.90	95.0	2.00	6.77	
Toluene*	<0.050	0.050	04/09/2021	ND	1.98	98.9	2.00	7.83	
Ethylbenzene*	<0.050	0.050	04/09/2021	ND	1.99	99.7	2.00	7.14	
Total Xylenes*	<0.150	0.150	04/09/2021	ND	6.24	104	6.00	6.58	
Total BTEX	<0.300	0.300	04/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7840	16.0	04/09/2021	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/08/2021	ND	225	112	200	2.89	
DRO >C10-C28*	20.0	10.0	04/08/2021	ND	234	117	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	04/08/2021	ND					

Surrogate: 1-Chlorooctane 83.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 82.8 % 42.2-156

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:	04/07/2021	Sampling Date:	04/07/2021
Reported:	04/09/2021	Sampling Type:	Soil
Project Name:	WBDU 144H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: B 2 @ 3" (H210882-02)

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	04/09/2021	ND	1.90	95.0	2.00	6.77	
Toluene*	<0.050	0.050	04/09/2021	ND	1.98	98.9	2.00	7.83	
Ethylbenzene*	<0.050	0.050	04/09/2021	ND	1.99	99.7	2.00	7.14	
Total Xylenes*	<0.150	0.150	04/09/2021	ND	6.24	104	6.00	6.58	
Total BTEX	<0.300	0.300	04/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10400	16.0	04/09/2021	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/08/2021	ND	225	112	200	2.89	
DRO >C10-C28*	1500	10.0	04/08/2021	ND	234	117	200	1.76	
EXT DRO >C28-C36	1510	10.0	04/08/2021	ND					

Surrogate: 1-Chlorooctane 82.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 121 % 42.2-156

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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:	04/07/2021	Sampling Date:	04/07/2021
Reported:	04/09/2021	Sampling Type:	Soil
Project Name:	WBDU 144H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: B 3 @ 3" (H210882-03)

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	04/09/2021	ND	1.90	95.0	2.00	6.77	
Toluene*	<0.050	0.050	04/09/2021	ND	1.98	98.9	2.00	7.83	
Ethylbenzene*	<0.050	0.050	04/09/2021	ND	1.99	99.7	2.00	7.14	
Total Xylenes*	<0.150	0.150	04/09/2021	ND	6.24	104	6.00	6.58	
Total BTEX	<0.300	0.300	04/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9730	16.0	04/09/2021	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/08/2021	ND	225	112	200	2.89	
DRO >C10-C28*	141	10.0	04/08/2021	ND	234	117	200	1.76	
EXT DRO >C28-C36	191	10.0	04/08/2021	ND					

Surrogate: 1-Chlorooctane 82.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.7 % 42.2-156

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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:	04/07/2021	Sampling Date:	04/07/2021
Reported:	04/09/2021	Sampling Type:	Soil
Project Name:	WBDU 144H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: B 4 @ 3" (H210882-04)

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	04/09/2021	ND	1.90	95.0	2.00	6.77	
Toluene*	<0.050	0.050	04/09/2021	ND	1.98	98.9	2.00	7.83	
Ethylbenzene*	<0.050	0.050	04/09/2021	ND	1.99	99.7	2.00	7.14	
Total Xylenes*	<0.150	0.150	04/09/2021	ND	6.24	104	6.00	6.58	
Total BTEX	<0.300	0.300	04/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10100	16.0	04/09/2021	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/08/2021	ND	225	112	200	2.89	
DRO >C10-C28*	102	10.0	04/08/2021	ND	234	117	200	1.76	
EXT DRO >C28-C36	35.9	10.0	04/08/2021	ND					

Surrogate: 1-Chlorooctane 82.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.3 % 42.2-156

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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:	04/07/2021	Sampling Date:	04/07/2021
Reported:	04/09/2021	Sampling Type:	Soil
Project Name:	WBDU 144H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: B 5 @ 3" (H210882-05)

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	04/09/2021	ND	1.90	95.0	2.00	6.77	
Toluene*	<0.050	0.050	04/09/2021	ND	1.98	98.9	2.00	7.83	
Ethylbenzene*	<0.050	0.050	04/09/2021	ND	1.99	99.7	2.00	7.14	
Total Xylenes*	<0.150	0.150	04/09/2021	ND	6.24	104	6.00	6.58	
Total BTEX	<0.300	0.300	04/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11200	16.0	04/09/2021	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/08/2021	ND	225	112	200	2.89	
DRO >C10-C28*	<10.0	10.0	04/08/2021	ND	234	117	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	04/08/2021	ND					

Surrogate: 1-Chlorooctane 80.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 77.8 % 42.2-156

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:	04/07/2021	Sampling Date:	04/07/2021
Reported:	04/09/2021	Sampling Type:	Soil
Project Name:	WBDU 144H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: B 6 @ 3" (H210882-06)

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	04/09/2021	ND	1.90	95.0	2.00	6.77	
Toluene*	<0.050	0.050	04/09/2021	ND	1.98	98.9	2.00	7.83	
Ethylbenzene*	<0.050	0.050	04/09/2021	ND	1.99	99.7	2.00	7.14	
Total Xylenes*	<0.150	0.150	04/09/2021	ND	6.24	104	6.00	6.58	
Total BTEX	<0.300	0.300	04/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11500	16.0	04/09/2021	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/08/2021	ND	225	112	200	2.89	
DRO >C10-C28*	<10.0	10.0	04/08/2021	ND	234	117	200	1.76	
EXT DRO >C28-C36	<10.0	10.0	04/08/2021	ND					

Surrogate: 1-Chlorooctane 82.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.9 % 42.2-156

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:	04/07/2021	Sampling Date:	04/07/2021
Reported:	04/09/2021	Sampling Type:	Soil
Project Name:	WBDU 144H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: B 7@ 3" (H210882-07)

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	04/09/2021	ND	1.90	95.0	2.00	6.77	
Toluene*	<0.050	0.050	04/09/2021	ND	1.98	98.9	2.00	7.83	
Ethylbenzene*	<0.050	0.050	04/09/2021	ND	1.99	99.7	2.00	7.14	
Total Xylenes*	<0.150	0.150	04/09/2021	ND	6.24	104	6.00	6.58	
Total BTEX	<0.300	0.300	04/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12300	16.0	04/09/2021	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/08/2021	ND	225	112	200	2.89	
DRO >C10-C28*	58.5	10.0	04/08/2021	ND	234	117	200	1.76	
EXT DRO >C28-C36	17.8	10.0	04/08/2021	ND					

Surrogate: 1-Chlorooctane 81.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.8 % 42.2-156

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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:	04/07/2021	Sampling Date:	04/07/2021
Reported:	04/09/2021	Sampling Type:	Soil
Project Name:	WBDU 144H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: B 8 @ 3" (H210882-08)

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	04/09/2021	ND	1.90	95.0	2.00	6.77	
Toluene*	<0.050	0.050	04/09/2021	ND	1.98	98.9	2.00	7.83	
Ethylbenzene*	<0.050	0.050	04/09/2021	ND	1.99	99.7	2.00	7.14	
Total Xylenes*	<0.150	0.150	04/09/2021	ND	6.24	104	6.00	6.58	
Total BTEX	<0.300	0.300	04/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12000	16.0	04/09/2021	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/08/2021	ND	225	112	200	2.89	
DRO >C10-C28*	137	10.0	04/08/2021	ND	234	117	200	1.76	
EXT DRO >C28-C36	42.5	10.0	04/08/2021	ND					

Surrogate: 1-Chlorooctane 80.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 77.3 % 42.2-156

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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:	04/07/2021	Sampling Date:	04/07/2021
Reported:	04/09/2021	Sampling Type:	Soil
Project Name:	WBDU 144H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: B 9 @ 3" (H210882-09)

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	04/09/2021	ND	1.90	95.0	2.00	6.77	
Toluene*	<0.050	0.050	04/09/2021	ND	1.98	98.9	2.00	7.83	
Ethylbenzene*	<0.050	0.050	04/09/2021	ND	1.99	99.7	2.00	7.14	
Total Xylenes*	<0.150	0.150	04/09/2021	ND	6.24	104	6.00	6.58	
Total BTEX	<0.300	0.300	04/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8530	16.0	04/09/2021	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/08/2021	ND	225	112	200	2.89	
DRO >C10-C28*	174	10.0	04/08/2021	ND	234	117	200	1.76	
EXT DRO >C28-C36	43.4	10.0	04/08/2021	ND					

Surrogate: 1-Chlorooctane 79.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.0 % 42.2-156

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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:	04/07/2021	Sampling Date:	04/07/2021
Reported:	04/09/2021	Sampling Type:	Soil
Project Name:	WBDU 144H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: B 10 @ 3" (H210882-10)

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	04/09/2021	ND	1.90	95.0	2.00	6.77	
Toluene*	<0.050	0.050	04/09/2021	ND	1.98	98.9	2.00	7.83	
Ethylbenzene*	<0.050	0.050	04/09/2021	ND	1.99	99.7	2.00	7.14	
Total Xylenes*	<0.150	0.150	04/09/2021	ND	6.24	104	6.00	6.58	
Total BTEX	<0.300	0.300	04/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	16.0	04/09/2021	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/08/2021	ND	225	112	200	2.89	
DRO >C10-C28*	396	10.0	04/08/2021	ND	234	117	200	1.76	
EXT DRO >C28-C36	105	10.0	04/08/2021	ND					

Surrogate: 1-Chlorooctane 79.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.4 % 42.2-156

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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:	04/07/2021	Sampling Date:	04/07/2021
Reported:	04/09/2021	Sampling Type:	Soil
Project Name:	WBDU 144H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: B 11 @ 3" (H210882-11)

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	04/09/2021	ND	1.90	95.0	2.00	6.77	
Toluene*	<0.050	0.050	04/09/2021	ND	1.98	98.9	2.00	7.83	
Ethylbenzene*	<0.050	0.050	04/09/2021	ND	1.99	99.7	2.00	7.14	
Total Xylenes*	<0.150	0.150	04/09/2021	ND	6.24	104	6.00	6.58	
Total BTEX	<0.300	0.300	04/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	04/09/2021	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/08/2021	ND	225	112	200	2.89	
DRO >C10-C28*	118	10.0	04/08/2021	ND	234	117	200	1.76	
EXT DRO >C28-C36	36.2	10.0	04/08/2021	ND					

Surrogate: 1-Chlorooctane 81.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.1 % 42.2-156

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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:	04/07/2021	Sampling Date:	04/07/2021
Reported:	04/09/2021	Sampling Type:	Soil
Project Name:	WBDU 144H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: B 12 @ 3" (H210882-12)

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	04/09/2021	ND	1.90	95.0	2.00	6.77	
Toluene*	<0.050	0.050	04/09/2021	ND	1.98	98.9	2.00	7.83	
Ethylbenzene*	<0.050	0.050	04/09/2021	ND	1.99	99.7	2.00	7.14	
Total Xylenes*	<0.150	0.150	04/09/2021	ND	6.24	104	6.00	6.58	
Total BTEX	<0.300	0.300	04/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3240	16.0	04/09/2021	ND	416	104	400	0.00	QM-07

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	04/08/2021	ND	225	112	200	2.89	
DRO >C10-C28*	133	10.0	04/08/2021	ND	234	117	200	1.76	
EXT DRO >C28-C36	33.7	10.0	04/08/2021	ND					

Surrogate: 1-Chlorooctane 75.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.1 % 42.2-156

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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:	04/07/2021	Sampling Date:	04/07/2021
Reported:	04/09/2021	Sampling Type:	Soil
Project Name:	WBDU 144H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: B 13 @ 3" (H210882-13)

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	04/09/2021	ND	1.98	98.8	2.00	5.63	
Toluene*	<0.050	0.050	04/09/2021	ND	2.06	103	2.00	4.66	
Ethylbenzene*	<0.050	0.050	04/09/2021	ND	2.05	102	2.00	5.16	
Total Xylenes*	<0.150	0.150	04/09/2021	ND	6.36	106	6.00	5.08	
Total BTEX	<0.300	0.300	04/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	04/09/2021	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	04/08/2021	ND	225	113	200	1.37	
DRO >C10-C28*	194	10.0	04/08/2021	ND	244	122	200	0.330	
EXT DRO >C28-C36	64.8	10.0	04/08/2021	ND					

Surrogate: 1-Chlorooctane 77.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.3 % 42.2-156

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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:	04/07/2021	Sampling Date:	04/07/2021
Reported:	04/09/2021	Sampling Type:	Soil
Project Name:	WBDU 144H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: B 14 @ 3" (H210882-14)

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	04/09/2021	ND	1.98	98.8	2.00	5.63	
Toluene*	<0.050	0.050	04/09/2021	ND	2.06	103	2.00	4.66	
Ethylbenzene*	<0.050	0.050	04/09/2021	ND	2.05	102	2.00	5.16	
Total Xylenes*	<0.150	0.150	04/09/2021	ND	6.36	106	6.00	5.08	
Total BTEX	<0.300	0.300	04/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2760	16.0	04/09/2021	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	04/08/2021	ND	225	113	200	1.37	
DRO >C10-C28*	43.2	10.0	04/08/2021	ND	244	122	200	0.330	
EXT DRO >C28-C36	36.2	10.0	04/08/2021	ND					

Surrogate: 1-Chlorooctane 83.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 84.5 % 42.2-156

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:	04/07/2021	Sampling Date:	04/07/2021
Reported:	04/09/2021	Sampling Type:	Soil
Project Name:	WBDU 144H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: B 15 @ 3" (H210882-15)

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	04/09/2021	ND	1.98	98.8	2.00	5.63	
Toluene*	<0.050	0.050	04/09/2021	ND	2.06	103	2.00	4.66	
Ethylbenzene*	<0.050	0.050	04/09/2021	ND	2.05	102	2.00	5.16	
Total Xylenes*	<0.150	0.150	04/09/2021	ND	6.36	106	6.00	5.08	
Total BTEX	<0.300	0.300	04/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	04/09/2021	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	04/09/2021	ND	225	113	200	1.37	
DRO >C10-C28*	<10.0	10.0	04/09/2021	ND	244	122	200	0.330	
EXT DRO >C28-C36	<10.0	10.0	04/09/2021	ND					

Surrogate: 1-Chlorooctane 79.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.5 % 42.2-156

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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:	04/07/2021	Sampling Date:	04/07/2021
Reported:	04/09/2021	Sampling Type:	Soil
Project Name:	WBDU 144H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: B 16 @ 3" (H210882-16)

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	04/09/2021	ND	1.98	98.8	2.00	5.63	
Toluene*	<0.050	0.050	04/09/2021	ND	2.06	103	2.00	4.66	
Ethylbenzene*	<0.050	0.050	04/09/2021	ND	2.05	102	2.00	5.16	
Total Xylenes*	<0.150	0.150	04/09/2021	ND	6.36	106	6.00	5.08	
Total BTEX	<0.300	0.300	04/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1420	16.0	04/09/2021	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	04/09/2021	ND	225	113	200	1.37	
DRO >C10-C28*	88.2	10.0	04/09/2021	ND	244	122	200	0.330	
EXT DRO >C28-C36	20.7	10.0	04/09/2021	ND					

Surrogate: 1-Chlorooctane 84.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.3 % 42.2-156

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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:	04/07/2021	Sampling Date:	04/07/2021
Reported:	04/09/2021	Sampling Type:	Soil
Project Name:	WBDU 144H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: W 1 (H210882-17)

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	04/09/2021	ND	1.98	98.8	2.00	5.63	
Toluene*	<0.050	0.050	04/09/2021	ND	2.06	103	2.00	4.66	
Ethylbenzene*	<0.050	0.050	04/09/2021	ND	2.05	102	2.00	5.16	
Total Xylenes*	<0.150	0.150	04/09/2021	ND	6.36	106	6.00	5.08	
Total BTEX	<0.300	0.300	04/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/09/2021	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	04/09/2021	ND	225	113	200	1.37	
DRO >C10-C28*	<10.0	10.0	04/09/2021	ND	244	122	200	0.330	
EXT DRO >C28-C36	<10.0	10.0	04/09/2021	ND					

Surrogate: 1-Chlorooctane 79.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.4 % 42.2-156

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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:	04/07/2021	Sampling Date:	04/07/2021
Reported:	04/09/2021	Sampling Type:	Soil
Project Name:	WBDU 144H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: W 2 (H210882-18)

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	04/09/2021	ND	1.98	98.8	2.00	5.63	
Toluene*	<0.050	0.050	04/09/2021	ND	2.06	103	2.00	4.66	
Ethylbenzene*	<0.050	0.050	04/09/2021	ND	2.05	102	2.00	5.16	
Total Xylenes*	<0.150	0.150	04/09/2021	ND	6.36	106	6.00	5.08	
Total BTEX	<0.300	0.300	04/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/09/2021	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	04/09/2021	ND	225	113	200	1.37	
DRO >C10-C28*	<10.0	10.0	04/09/2021	ND	244	122	200	0.330	
EXT DRO >C28-C36	<10.0	10.0	04/09/2021	ND					

Surrogate: 1-Chlorooctane 84.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 85.1 % 42.2-156

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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:	04/07/2021	Sampling Date:	04/07/2021
Reported:	04/09/2021	Sampling Type:	Soil
Project Name:	WBDU 144H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: W 3 (H210882-19)

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	04/09/2021	ND	1.98	98.8	2.00	5.63	
Toluene*	<0.050	0.050	04/09/2021	ND	2.06	103	2.00	4.66	
Ethylbenzene*	<0.050	0.050	04/09/2021	ND	2.05	102	2.00	5.16	
Total Xylenes*	<0.150	0.150	04/09/2021	ND	6.36	106	6.00	5.08	
Total BTEX	<0.300	0.300	04/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129

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	04/09/2021	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	04/09/2021	ND	225	113	200	1.37	
DRO >C10-C28*	<10.0	10.0	04/09/2021	ND	244	122	200	0.330	
EXT DRO >C28-C36	<10.0	10.0	04/09/2021	ND					

Surrogate: 1-Chlorooctane 77.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 75.8 % 42.2-156

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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:	04/07/2021	Sampling Date:	04/07/2021
Reported:	04/09/2021	Sampling Type:	Soil
Project Name:	WBDU 144H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: W 4 (H210882-20)

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	04/09/2021	ND	1.98	98.8	2.00	5.63	
Toluene*	<0.050	0.050	04/09/2021	ND	2.06	103	2.00	4.66	
Ethylbenzene*	<0.050	0.050	04/09/2021	ND	2.05	102	2.00	5.16	
Total Xylenes*	<0.150	0.150	04/09/2021	ND	6.36	106	6.00	5.08	
Total BTEX	<0.300	0.300	04/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/09/2021	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	04/09/2021	ND	225	113	200	1.37	
DRO >C10-C28*	<10.0	10.0	04/09/2021	ND	244	122	200	0.330	
EXT DRO >C28-C36	<10.0	10.0	04/09/2021	ND					

Surrogate: 1-Chlorooctane 76.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 75.8 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

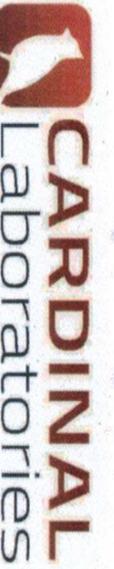
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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Apache Corporation
 Project Manager: Bruce Baker
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: _____
 Project Name: W800 144H
 Project Location: W800 144H
 Sampler Name: Jeff Brown
 P.O. #: _____ Company: _____
 Attn: _____ Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	CL-	BTEX	EXT. TPH	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:						ICE / COOL
H21D882	B1 @ 3"			<input checked="" type="checkbox"/>								4/7/21	1105	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	B2 @ 3"			<input checked="" type="checkbox"/>									1107	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	B3 @ 3"			<input checked="" type="checkbox"/>									1109	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	B4 @ 3"			<input checked="" type="checkbox"/>									1111	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	B5 @ 3"			<input checked="" type="checkbox"/>									1113	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	B6 @ 3"			<input checked="" type="checkbox"/>									1115	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	B7 @ 3"			<input checked="" type="checkbox"/>									1117	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	B8 @ 3"			<input checked="" type="checkbox"/>									1119	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	B9 @ 3"			<input checked="" type="checkbox"/>									1121	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	B10 @ 3"			<input checked="" type="checkbox"/>									1123	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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Relinquished By: Jeff Brown
 Date: 4/7/21
 Received By: Heidi Henderson
 Date: 4/7/21
 Time: 10:05
 Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address:
 Turnaround Time: _____ Standard Rush
 Thermometer ID #113 Bacteria (only) Sample Condition
 Correction Factor None Cool Intact Observed Temp. °C
 Yes No Corrected Temp. °C

Delivered By: (Circle One) Observed Temp. °C 4.1
 Sampler - UPS - Bus - Other: Corrected Temp. °C
 Sample Condition: Intact Cool Yes No
 CHECKED BY: [Signature]
 Remarks: _____
 † Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinalabsnm.com



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 #: Project Owner:
 Project Name: *WABOU 144H*
 Project Location: *WABOU 144H*
 Sampler Name: *Jeff Ryan*
 P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.	SAMPLING	DATE	TIME	CL-	BTEX	EXT. TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:							
<i>H11D882</i>	<i>B11 @ 3"</i>					<input checked="" type="checkbox"/>							<i>4/7/21</i>	<i>11:25</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<i>B12 @ 3"</i>					<input checked="" type="checkbox"/>							<i>4/7/21</i>	<i>11:27</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<i>B13 @ 3"</i>					<input checked="" type="checkbox"/>							<i>4/7/21</i>	<i>11:29</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<i>B14 @ 3"</i>					<input checked="" type="checkbox"/>							<i>4/7/21</i>	<i>11:31</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<i>B15 @ 3"</i>					<input checked="" type="checkbox"/>							<i>4/7/21</i>	<i>11:33</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<i>B16 @ 3"</i>					<input checked="" type="checkbox"/>											

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Relinquished By: *Jeff Ryan*
 Date: *4/7/21*
 Time: *10:05*
 Received By: *Scott Henderson*
 Date: _____
 Time: _____
 Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address:
 Turnaround Time: _____
 Standard Rush
 Bacteria (only) Sample Condition
 Cool Intact Observed Temp. °C
 Yes No Corrected Temp. °C

Delivered By: (Circle One) Observed Temp. °C *41*
 Corrected Temp. °C _____
 Sample Condition Cool Intact Yes No
 Checked By: *[Signature]*
 Turnaround Time: _____
 Standard Rush
 Bacteria (only) Sample Condition
 Cool Intact Observed Temp. °C
 Yes No Corrected Temp. °C



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: *Geache Corporation*
 Project Manager: *Bruce Baker*
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: _____
 Project Name: *W8802 144H*
 Project Location: *W8802 144H*
 Sampler Name: *Jeff Brown*
 P.O. #: _____ Company: _____
 Attn: _____ Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	CL-	BTEX	EXT. TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
<i>H210882</i>														
	<i>W1</i>			<input checked="" type="checkbox"/>					<i>4/7/21</i>	<i>1225</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	<i>W2</i>			<input checked="" type="checkbox"/>					<i>4/7/21</i>	<i>1227</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	<i>W3</i>			<input checked="" type="checkbox"/>					<i>4/7/21</i>	<i>1229</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	<i>W4</i>			<input checked="" type="checkbox"/>					<i>4/7/21</i>	<i>1231</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

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Relinquished By: *Jeff Brown* Date: *4/7/21* Received By: *Spide Henderson*
 Time: *10:05*
 Date: _____ Received By: _____
 Time: _____
 Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address: _____
 REMARKS: _____

Delivered By: (Circle One) Observed Temp. °C *4.1* Sample Condition Intact Cool No Yes No
 Sampler - UPS - Bus - Other: Corrected Temp. °C _____
 Turnaround Time: _____ Standard *Rush* Bacteria (only) Yes No No
 Thermometer ID #113 Correction Factor None Sample Condition Observed Temp. °C Corrected Temp. °C

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



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

April 15, 2021

JEFFREY BROOM

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WBDU 144H

Enclosed are the results of analyses for samples received by the laboratory on 04/14/21 16:26.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/14/2021	Sampling Date:	04/14/2021
Reported:	04/15/2021	Sampling Type:	Soil
Project Name:	WBDU 144H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: B 2 @ 6" (H210953-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1960	16.0	04/15/2021	ND	400	100	400	0.00	QM-07	

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	04/15/2021	ND	190	95.1	200	0.727		
DRO >C10-C28*	<10.0	10.0	04/15/2021	ND	192	96.0	200	5.45		
EXT DRO >C28-C36	<10.0	10.0	04/15/2021	ND						

Surrogate: 1-Chlorooctane 91.8 % 44.3-144
 Surrogate: 1-Chlorooctadecane 92.0 % 42.2-156

Sample ID: B 4 @ 6" (H210953-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4260	16.0	04/15/2021	ND	400	100	400	0.00		

Sample ID: B 5 @ 6" (H210953-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5840	16.0	04/15/2021	ND	400	100	400	0.00		

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/14/2021	Sampling Date:	04/14/2021
Reported:	04/15/2021	Sampling Type:	Soil
Project Name:	WBDU 144H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: B 6 @ 6" (H210953-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	04/15/2021	ND	400	100	400	0.00	

Sample ID: B 7 @ 6" (H210953-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1960	16.0	04/15/2021	ND	400	100	400	0.00	

Sample ID: B 8 @ 6" (H210953-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	04/15/2021	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/14/2021	Sampling Date:	04/14/2021
Reported:	04/15/2021	Sampling Type:	Soil
Project Name:	WBDU 144H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: W 1 BGS 0-3" (H210953-07) Wall 5 on Map

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	04/15/2021	ND	2.20	110	2.00	0.443	
Toluene*	<0.050	0.050	04/15/2021	ND	2.11	105	2.00	0.553	
Ethylbenzene*	<0.050	0.050	04/15/2021	ND	2.09	105	2.00	0.438	
Total Xylenes*	<0.150	0.150	04/15/2021	ND	6.22	104	6.00	0.694	
Total BTEX	<0.300	0.300	04/15/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12600	16.0	04/15/2021	ND	400	100	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	04/15/2021	ND	190	95.1	200	0.727	
DRO >C10-C28*	170	10.0	04/15/2021	ND	192	96.0	200	5.45	
EXT DRO >C28-C36	43.5	10.0	04/15/2021	ND					

Surrogate: 1-Chlorooctane 92.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.7 % 42.2-156

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/14/2021	Sampling Date:	04/14/2021
Reported:	04/15/2021	Sampling Type:	Soil
Project Name:	WBDU 144H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: W 2 BGS 0-3" (H210953-08) Wall 6 on Map

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	04/15/2021	ND	2.20	110	2.00	0.443	
Toluene*	<0.050	0.050	04/15/2021	ND	2.11	105	2.00	0.553	
Ethylbenzene*	<0.050	0.050	04/15/2021	ND	2.09	105	2.00	0.438	
Total Xylenes*	<0.150	0.150	04/15/2021	ND	6.22	104	6.00	0.694	
Total BTEX	<0.300	0.300	04/15/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9330	16.0	04/15/2021	ND	400	100	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	04/15/2021	ND	190	95.1	200	0.727	
DRO >C10-C28*	12.0	10.0	04/15/2021	ND	192	96.0	200	5.45	
EXT DRO >C28-C36	<10.0	10.0	04/15/2021	ND					

Surrogate: 1-Chlorooctane 91.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.1 % 42.2-156

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

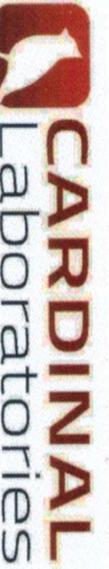
Cardinal Laboratories

*=Accredited Analyte

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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

BILL TO

ANALYSIS REQUEST

Company Name: Apacher
 Project Manager: Jeff Brown
 Address: Hobbs State: NM Zip: 88240
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: _____
 Project Name: _____
 Project Location: WSPDU 144H
 Sampler Name: Joe Sinescald
 FOR LAB USE ONLY

P.O. #: _____
 Company: _____
 Attn: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____
 Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV		DATE	TIME	EXT TPH	BTEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL				
<u>H210953</u>	<u>1 RB 0-6"</u>	<u>C</u>	<u>1</u>			<u>X</u>					<u>4/11</u>	<u>11:24</u>	<u>1</u>	<u>1</u>	
	<u>2 RB 0-6"</u>	<u>C</u>	<u>1</u>								<u>4/11</u>	<u>11:26</u>	<u>1</u>	<u>1</u>	
	<u>3 RB 0-6"</u>	<u>C</u>	<u>1</u>								<u>4/11</u>	<u>11:28</u>	<u>1</u>	<u>1</u>	
	<u>4 RB 0-6"</u>	<u>C</u>	<u>1</u>								<u>4/11</u>	<u>11:30</u>	<u>1</u>	<u>1</u>	
	<u>5 RB 0-6"</u>	<u>C</u>	<u>1</u>								<u>4/11</u>	<u>11:32</u>	<u>1</u>	<u>1</u>	
	<u>6 RB 0-6"</u>	<u>C</u>	<u>1</u>								<u>4/11</u>	<u>11:34</u>	<u>1</u>	<u>1</u>	
	<u>7 WB 0-3"</u>	<u>C</u>	<u>1</u>								<u>4/14</u>	<u>12:35</u>	<u>1</u>	<u>1</u>	
	<u>8 W2 B550-3"</u>	<u>C</u>	<u>1</u>								<u>4/14</u>	<u>1:37</u>	<u>1</u>	<u>1</u>	

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Relinquished By: _____ Date: _____
 Relinquished By: Jeff Brown Date: 4/11
 Received By: _____ Date: _____
 Received By: Jeff Brown Date: 4/11

Delivered By: (Circle One) Observed Temp. °C 4.1
 Corrected Temp. °C _____
 Sample Condition: Cool Intact Yes No
 Checked By: VB
 Turnaround Time: _____
 Thermometer ID #113 Correction Factor None

Standard Rush Bacteria (only) Sample Condition Cool Intact Yes No Corrected Temp. °C _____
 Verbal Result: Yes No Add'l Phone #: _____
 All Results are emailed. Please provide Email address: _____
 REMARKS: Jeff Brown
 Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

April 19, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WBDU 144H

Enclosed are the results of analyses for samples received by the laboratory on 04/16/21 15:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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:	04/16/2021	Sampling Date:	04/16/2021
Reported:	04/19/2021	Sampling Type:	Soil
Project Name:	WBDU 144H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: W 5 BGS 0-6" (H210989-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2840	16.0	04/19/2021	ND	400	100	400	0.00	

Sample ID: W 7 BGS 0-6" (H210989-02)

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	04/16/2021	ND	2.21	111	2.00	5.37	
Toluene*	<0.050	0.050	04/16/2021	ND	2.10	105	2.00	5.83	
Ethylbenzene*	<0.050	0.050	04/16/2021	ND	2.09	104	2.00	5.17	
Total Xylenes*	<0.150	0.150	04/16/2021	ND	6.18	103	6.00	5.30	
Total BTEX	<0.300	0.300	04/16/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	04/19/2021	ND	400	100	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	04/17/2021	ND	188	94.1	200	1.02	
DRO >C10-C28*	<10.0	10.0	04/17/2021	ND	192	95.9	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	04/17/2021	ND					

Surrogate: 1-Chlorooctane 113 % 44.3-144

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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:	04/16/2021	Sampling Date:	04/16/2021
Reported:	04/19/2021	Sampling Type:	Soil
Project Name:	WBDU 144H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: W 7 BGS 0-6" (H210989-02)

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Surrogate: 1-Chlorooctadecane	116 %	42.2-156							

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/16/2021	Sampling Date:	04/16/2021
Reported:	04/19/2021	Sampling Type:	Soil
Project Name:	WBDU 144H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: W 8 BGS 0-6" (H210989-03)

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	04/16/2021	ND	2.21	111	2.00	5.37	
Toluene*	<0.050	0.050	04/16/2021	ND	2.10	105	2.00	5.83	
Ethylbenzene*	<0.050	0.050	04/16/2021	ND	2.09	104	2.00	5.17	
Total Xylenes*	<0.150	0.150	04/16/2021	ND	6.18	103	6.00	5.30	
Total BTEX	<0.300	0.300	04/16/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	04/19/2021	ND	400	100	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	04/17/2021	ND	188	94.1	200	1.02	
DRO >C10-C28*	<10.0	10.0	04/17/2021	ND	192	95.9	200	2.90	
EXT DRO >C28-C36	<10.0	10.0	04/17/2021	ND					

Surrogate: 1-Chlorooctane 112 % 44.3-144

Surrogate: 1-Chlorooctadecane 116 % 42.2-156

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Notes and Definitions

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

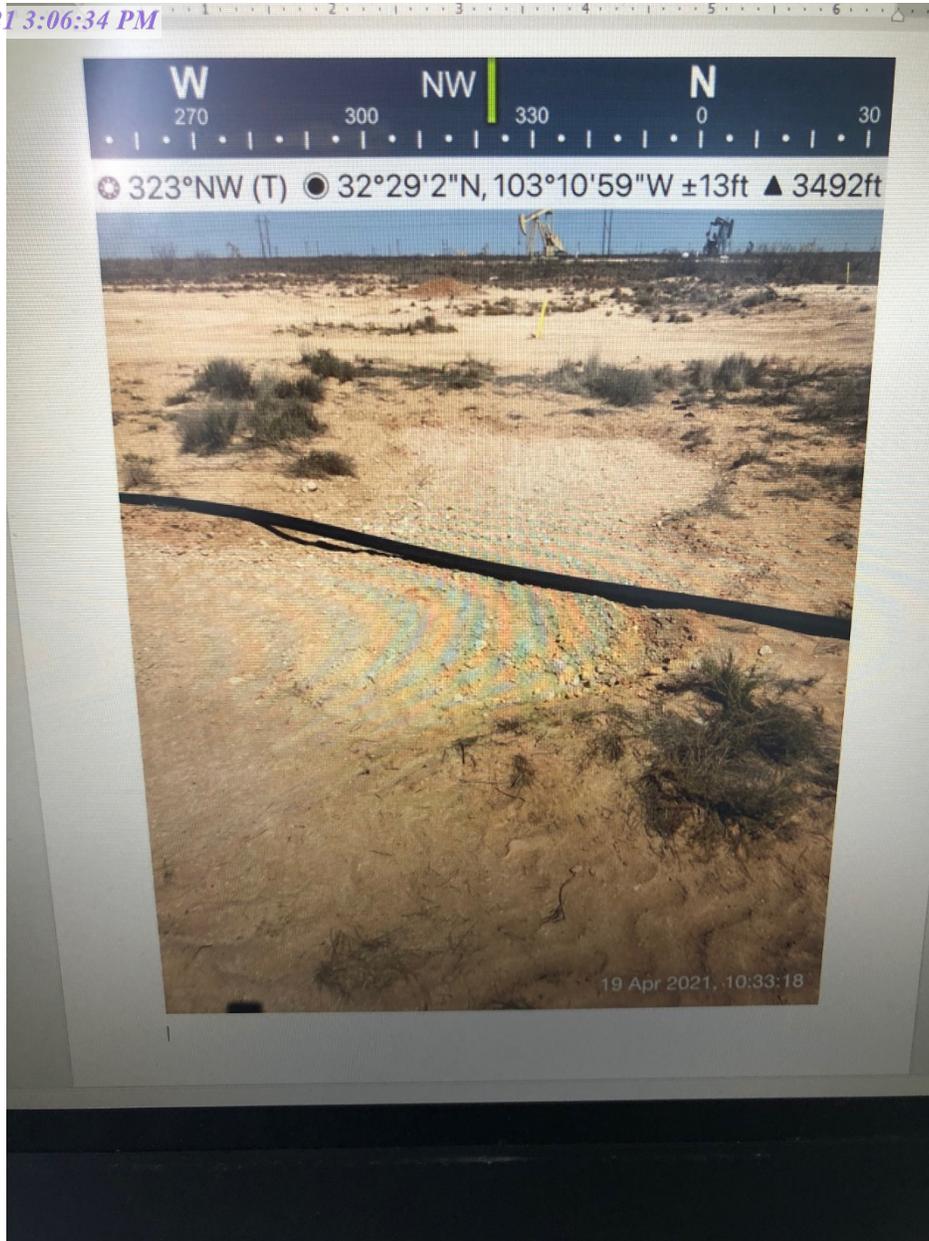
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Celey D. Keene, Lab Director/Quality Manager







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District II
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District III
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 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 26955

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 26955
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	7/30/2021