



303 Veterans Airpark Lane Midland, TX 79705

Closure Report

June 10, 2021

Re: EAU D 40 Battery
Case # NRM2015736485

On 5/28/2020 a release occurred due to a hole developed on a steel valve at the meter header resulting in the loss of produced water. The release (GPS: 32.799356, -104.139214) is located east of Artesia, NM in unit letter P section 26 township 17S range 28E. A groundwater survey was conducted utilizing data from NMOSE and USGS. The nearest well indicates ground water below the release to be 257 feet below ground surface. A remediation plan was submitted and approved by OCD on 6/10/2021.

The release area was excavated in accordance with the OCD approved plan. All excavated material was hauled to an OCD approved disposal facility. Final 5 point bottom and wall composite samples were collected in accordance with the approved plan and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Once laboratory results were below table one standards for releases greater than 100 feet to groundwater and reclamation standards for the pasture area where meet with the except of two areas were active pipeline infrastructure exist. The excavation was backfilled with clean imported caliche for the lease pad and clean imported topsoil for the pasture area. The pasture will be reseeded during the next optimal growing season with a native seed mixture.

Apache Corporation has completed remediation to below table one standards and respectfully request that event # NRM2015736485 be closed.

Enclosed: C-141, Sample Diagram, Sample Data, Laboratory Results, and Photos.

Submitted by;

Bruce Baker

Environmental Technician

larry.baker@apachecorp.com

Cell# 432-631-6982

Off# 432-818-1000

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: 6/10/2021
email: larry.baker@apachecorp.com Telephone: 432-631-6982

OCD Only

Received by: _____ Date: _____

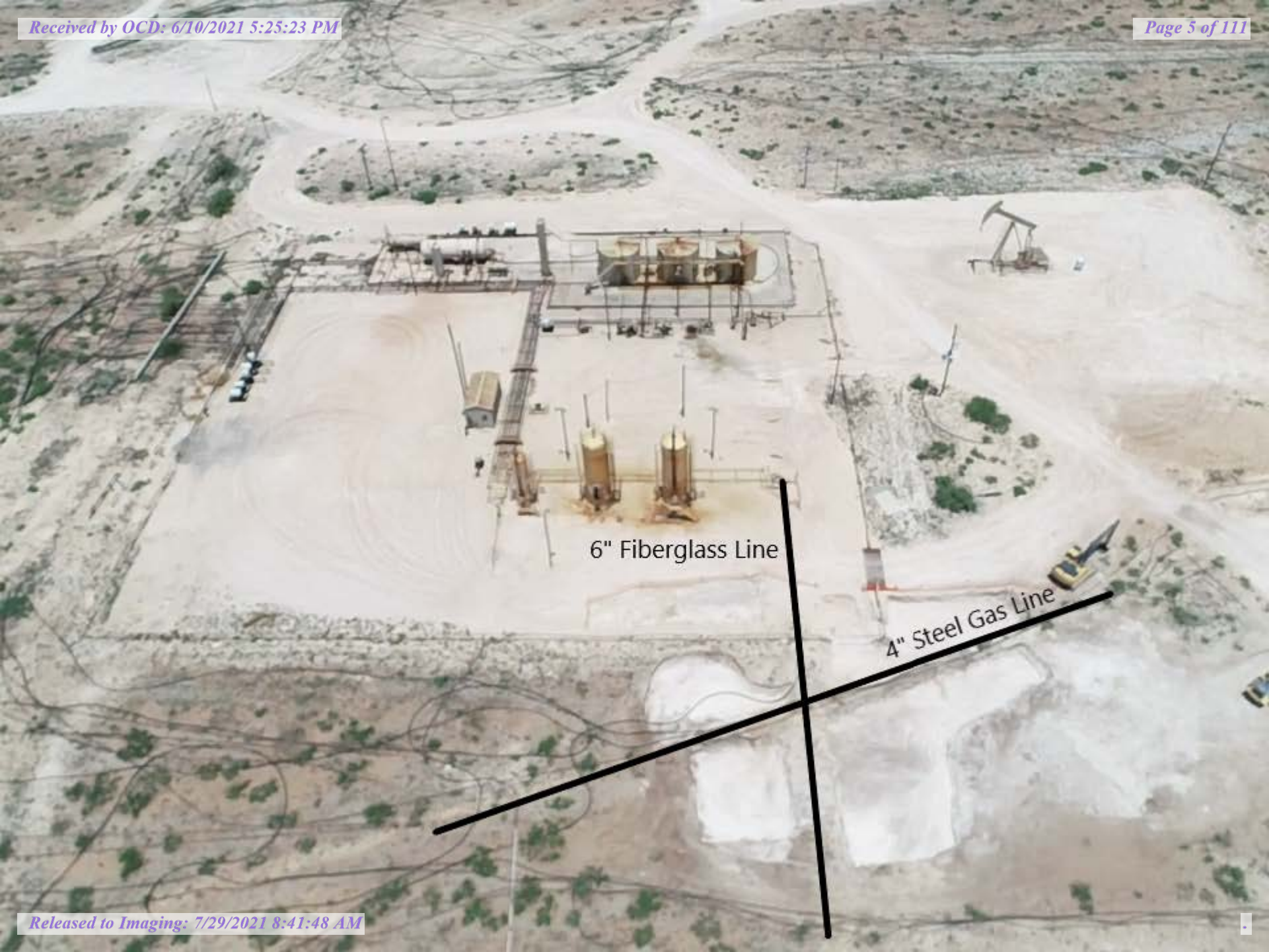
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____







Bottom Samples

Sample Date	Sample ID	Depth	Chloride Lab	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO
5/18/2021	1	3'	640	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/4/2021	1	4'	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	2	3'	1760	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/4/2021	2	4'	624	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	3	3'	2600	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/4/2021	3	4'	3520	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	71.200	<10.0
5/18/2021	4	3'	2600	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/4/2021	4	4'	5120	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	5	3'	1440	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/4/2021	5	4'	4240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	6	3'	1480	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/4/2021	6	4'	464	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	7	4'	3570	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	8	4'	2520	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	9	4'	2600	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	10	4'	1800	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	11	4'	1380	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	12	4'	656	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	13	4'	1280	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	14	1'	272	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	15	1'	1170	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	16	SURF	2840	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	17	SURF	3440	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	18	SURF	3520	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	19	SURF	6800	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	20	SURF	640	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	21	SURF	10900	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1200	387
6/4/2021	21	3'	1330	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	22	SURF	8000	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	23	SURF	12900	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	24	SURF	4080	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	25	SURF	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	49.4	14.6
6/2/2021	26	SURF	272	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/2/2021	27	SURF	4960	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/2/2021	28	SURF	176	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/2/2021	29	SURF	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/2/2021	30	SURF	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/4/2021	31	4'	1390	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/4/2021	32	SURF	9560	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1050	152
6/8/2021	32	3"	1390	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	14.8	<10.0
6/4/2021	33	SURF	16,100	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	103	26.1

Wall Samples

5/18/2021	SWC1		720	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/3/2021	SWC1		720	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0

5/18/2021	SWC2		2120	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	189	39.3
6/2/2021	SWC2		192	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	SWC3		1220	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/3/2021	SWC3		128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	SWC4		1300	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/4/2021	SWC4		272	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	SWC5		112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	SWC6		7060	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/3/2021	SWC6		80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	SWC7		4480	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/3/2021	SWC7		160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	SWC8		9060	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	SWC9		272	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	SWC10		128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
5/18/2021	SWC11		864	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/2/2021	SWC11		144	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/2/2021	SWC12		32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/2/2021	SWC13		224	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/2/2021	SWC14		48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/2/2021	SWC15		48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/4/2021	SWC16		208	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/4/2021	SWC17		1840	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/4/2021	SWC18		5200	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/4/2021	SWC19		1070	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/4/2021	SWC20		15000	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/4/2021	SWC21		20000	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/8/2021	SWC21		1040								
6/4/2021	SWC22		3840	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
8/20/2020	HC1		80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
8/20/2020	HC2		32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0



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

May 24, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EMPIRE ABO UNIT 040 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/18/21 15:12.

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, 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:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 1 (H211292-01)

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	05/20/2021	ND	2.03	102	2.00	1.76	
Toluene*	<0.050	0.050	05/20/2021	ND	2.19	110	2.00	3.70	
Ethylbenzene*	<0.050	0.050	05/20/2021	ND	2.22	111	2.00	0.578	
Total Xylenes*	<0.150	0.150	05/20/2021	ND	6.49	108	6.00	1.33	
Total BTEX	<0.300	0.300	05/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	640	16.0	05/20/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2021	ND	212	106	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/20/2021	ND	211	105	200	5.20	
EXT DRO >C28-C36	<10.0	10.0	05/20/2021	ND					

Surrogate: 1-Chlorooctane 80.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 77.9 % 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:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 2 (H211292-02)

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	05/21/2021	ND	2.04	102	2.00	4.78	
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8	
Total BTEx	<0.300	0.300	05/21/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	1760	16.0	05/20/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					

Surrogate: 1-Chlorooctane 89.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.2 % 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:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 3 (H211292-03)

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	05/21/2021	ND	2.04	102	2.00	4.78	
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8	
Total BTX	<0.300	0.300	05/21/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	2600	16.0	05/20/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					

Surrogate: 1-Chlorooctane 90.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.5 % 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:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 4 (H211292-04)

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	05/21/2021	ND	2.04	102	2.00	4.78	
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8	
Total BTEx	<0.300	0.300	05/21/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	2600	16.0	05/20/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					

Surrogate: 1-Chlorooctane 92.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.5 % 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:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 5 (H211292-05)

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	05/21/2021	ND	2.04	102	2.00	4.78	
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8	
Total BTEx	<0.300	0.300	05/21/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	1440	16.0	05/20/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					

Surrogate: 1-Chlorooctane 132 % 44.3-133

Surrogate: 1-Chlorooctadecane 129 % 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:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 6 (H211292-06)

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	05/21/2021	ND	2.04	102	2.00	4.78	
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8	
Total BTX	<0.300	0.300	05/21/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	1480	16.0	05/20/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					

Surrogate: 1-Chlorooctane 104 % 44.3-133

Surrogate: 1-Chlorooctadecane 102 % 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:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 7 (H211292-07)

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	05/21/2021	ND	2.04	102	2.00	4.78	
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8	
Total BTEx	<0.300	0.300	05/21/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	3520	16.0	05/20/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					

Surrogate: 1-Chlorooctane 88.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.7 % 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:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 8 (H211292-08)

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	05/21/2021	ND	2.04	102	2.00	4.78	
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8	
Total BTEx	<0.300	0.300	05/21/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	2520	16.0	05/20/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					

Surrogate: 1-Chlorooctane 83.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 9 (H211292-09)

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	05/21/2021	ND	2.04	102	2.00	4.78	
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8	
Total BTEx	<0.300	0.300	05/21/2021	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	2600	16.0	05/20/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					

Surrogate: 1-Chlorooctane 83.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.9 % 38.9-142

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

Analytical Results For:

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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 10 (H211292-10)

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	05/21/2021	ND	2.04	102	2.00	4.78	
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8	
Total BTX	<0.300	0.300	05/21/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	1800	16.0	05/20/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					

Surrogate: 1-Chlorooctane 89.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 88.6 % 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:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 11 (H211292-11)

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	05/21/2021	ND	2.04	102	2.00	4.78	
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8	
Total BTX	<0.300	0.300	05/21/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	1380	16.0	05/21/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					

Surrogate: 1-Chlorooctane 92.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.8 % 38.9-142

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Analytical Results For:

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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 12 (H211292-12)

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	05/21/2021	ND	2.04	102	2.00	4.78		
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9		
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5		
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8		
Total BTEx	<0.300	0.300	05/21/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	656	16.0	05/21/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					

Surrogate: 1-Chlorooctane 89.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.9 % 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:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 13 (H211292-13)

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	05/21/2021	ND	2.04	102	2.00	4.78		
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9		
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5		
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8		
Total BTEx	<0.300	0.300	05/21/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	1280	16.0	05/21/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					

Surrogate: 1-Chlorooctane 88.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 14 (H211292-14)

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	05/21/2021	ND	2.04	102	2.00	4.78	
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8	
Total BTX	<0.300	0.300	05/21/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	272	16.0	05/21/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					

Surrogate: 1-Chlorooctane 89.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.0 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 15 (H211292-15)

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	05/21/2021	ND	2.04	102	2.00	4.78		
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9		
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5		
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8		
Total BTEx	<0.300	0.300	05/21/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	1170	16.0	05/21/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					

Surrogate: 1-Chlorooctane 86.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 16 (H211292-16)

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	05/21/2021	ND	2.04	102	2.00	4.78		
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9		
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5		
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8		
Total BTEx	<0.300	0.300	05/21/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	2840	16.0	05/21/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					

Surrogate: 1-Chlorooctane 82.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.7 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 17 (H211292-17)

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	05/21/2021	ND	2.04	102	2.00	4.78		
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9		
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5		
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8		
Total BTEx	<0.300	0.300	05/21/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 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	3440	16.0	05/21/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					

Surrogate: 1-Chlorooctane 82.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.7 % 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:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 18 (H211292-18)

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	05/21/2021	ND	2.04	102	2.00	4.78	
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8	
Total BTX	<0.300	0.300	05/21/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	3520	16.0	05/21/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					

Surrogate: 1-Chlorooctane 85.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.8 % 38.9-142

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Analytical Results For:

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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 19 (H211292-19)

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	05/21/2021	ND	2.04	102	2.00	4.78	
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8	
Total BTX	<0.300	0.300	05/21/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	6800	16.0	05/21/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					

Surrogate: 1-Chlorooctane 82.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.8 % 38.9-142

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

Analytical Results For:

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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 20 (H211292-20)

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	05/21/2021	ND	2.04	102	2.00	4.78	
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8	
Total BTX	<0.300	0.300	05/21/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	640	16.0	05/21/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	<10.0	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	<10.0	10.0	05/21/2021	ND					

Surrogate: 1-Chlorooctane 99.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 99.9 % 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:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 21 (H211292-21)

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	05/21/2021	ND	2.04	102	2.00	4.78	
Toluene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	12.9	
Ethylbenzene*	<0.050	0.050	05/21/2021	ND	2.20	110	2.00	15.5	
Total Xylenes*	<0.150	0.150	05/21/2021	ND	6.52	109	6.00	16.8	
Total BTEx	<0.300	0.300	05/21/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	10900	16.0	05/21/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2021	ND	209	105	200	2.69	
DRO >C10-C28*	1200	10.0	05/21/2021	ND	190	95.1	200	3.40	
EXT DRO >C28-C36	387	10.0	05/21/2021	ND					

Surrogate: 1-Chlorooctane 88.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 128 % 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:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 22 (H211292-22)

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	05/20/2021	ND	1.97	98.7	2.00	3.65		
Toluene*	<0.050	0.050	05/20/2021	ND	2.01	100	2.00	3.97		
Ethylbenzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.24		
Total Xylenes*	<0.150	0.150	05/20/2021	ND	5.97	99.5	6.00	2.59		
Total BTX	<0.300	0.300	05/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	8000	16.0	05/21/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2021	ND	212	106	200	3.37	
DRO >C10-C28*	<10.0	10.0	05/20/2021	ND	215	107	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	05/20/2021	ND					

Surrogate: 1-Chlorooctane 84.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.6 % 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:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 23 (H211292-23)

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	05/20/2021	ND	1.97	98.7	2.00	3.65		
Toluene*	<0.050	0.050	05/20/2021	ND	2.01	100	2.00	3.97		
Ethylbenzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.24		
Total Xylenes*	<0.150	0.150	05/20/2021	ND	5.97	99.5	6.00	2.59		
Total BTX	<0.300	0.300	05/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	12900	16.0	05/21/2021	ND	432	108	400	0.00		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/20/2021	ND	212	106	200	3.37		
DRO >C10-C28*	<10.0	10.0	05/20/2021	ND	215	107	200	3.95		
EXT DRO >C28-C36	<10.0	10.0	05/20/2021	ND						

Surrogate: 1-Chlorooctane 83.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.3 % 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:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 24 (H211292-24)

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	05/20/2021	ND	1.97	98.7	2.00	3.65		
Toluene*	<0.050	0.050	05/20/2021	ND	2.01	100	2.00	3.97		
Ethylbenzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.24		
Total Xylenes*	<0.150	0.150	05/20/2021	ND	5.97	99.5	6.00	2.59		
Total BTEx	<0.300	0.300	05/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	4080	16.0	05/21/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2021	ND	212	106	200	3.37	
DRO >C10-C28*	<10.0	10.0	05/20/2021	ND	215	107	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	05/20/2021	ND					

Surrogate: 1-Chlorooctane 77.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: COMPOSITE 25 (H211292-25)

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	05/20/2021	ND	1.97	98.7	2.00	3.65		
Toluene*	<0.050	0.050	05/20/2021	ND	2.01	100	2.00	3.97		
Ethylbenzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.24		
Total Xylenes*	<0.150	0.150	05/20/2021	ND	5.97	99.5	6.00	2.59		
Total BTEx	<0.300	0.300	05/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	32.0	16.0	05/21/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2021	ND	212	106	200	3.37	
DRO >C10-C28*	49.4	10.0	05/20/2021	ND	215	107	200	3.95	
EXT DRO >C28-C36	14.6	10.0	05/20/2021	ND					

Surrogate: 1-Chlorooctane 84.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.9 % 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:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: SW COMPOSITE 1 (H211292-26)

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	05/20/2021	ND	1.97	98.7	2.00	3.65		
Toluene*	<0.050	0.050	05/20/2021	ND	2.01	100	2.00	3.97		
Ethylbenzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.24		
Total Xylenes*	<0.150	0.150	05/20/2021	ND	5.97	99.5	6.00	2.59		
Total BTX	<0.300	0.300	05/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	720	16.0	05/21/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2021	ND	212	106	200	3.37	
DRO >C10-C28*	<10.0	10.0	05/20/2021	ND	215	107	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	05/20/2021	ND					

Surrogate: 1-Chlorooctane 83.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.0 % 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:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: SW COMPOSITE 2 (H211292-27)

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	05/20/2021	ND	1.97	98.7	2.00	3.65	
Toluene*	<0.050	0.050	05/20/2021	ND	2.01	100	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.24	
Total Xylenes*	<0.150	0.150	05/20/2021	ND	5.97	99.5	6.00	2.59	
Total BTX	<0.300	0.300	05/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	2120	16.0	05/21/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2021	ND	212	106	200	3.37	
DRO >C10-C28*	189	10.0	05/20/2021	ND	215	107	200	3.95	
EXT DRO >C28-C36	39.3	10.0	05/20/2021	ND					

Surrogate: 1-Chlorooctane 85.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 93.0 % 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:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: SW COMPOSITE 3 (H211292-28)

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	05/20/2021	ND	1.97	98.7	2.00	3.65		
Toluene*	<0.050	0.050	05/20/2021	ND	2.01	100	2.00	3.97		
Ethylbenzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.24		
Total Xylenes*	<0.150	0.150	05/20/2021	ND	5.97	99.5	6.00	2.59		
Total BTEx	<0.300	0.300	05/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	1220	16.0	05/21/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2021	ND	211	105	200	0.316	
DRO >C10-C28*	<10.0	10.0	05/20/2021	ND	208	104	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	05/20/2021	ND					

Surrogate: 1-Chlorooctane 94.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: SW COMPOSITE 4 (H211292-29)

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	05/20/2021	ND	1.97	98.7	2.00	3.65		
Toluene*	<0.050	0.050	05/20/2021	ND	2.01	100	2.00	3.97		
Ethylbenzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.24		
Total Xylenes*	<0.150	0.150	05/20/2021	ND	5.97	99.5	6.00	2.59		
Total BTX	<0.300	0.300	05/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	1300	16.0	05/21/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2021	ND	211	105	200	0.316	
DRO >C10-C28*	<10.0	10.0	05/20/2021	ND	208	104	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	05/20/2021	ND					

Surrogate: 1-Chlorooctane 91.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 89.5 % 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:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: SW COMPOSITE 5 (H211292-30)

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	05/20/2021	ND	1.97	98.7	2.00	3.65		
Toluene*	<0.050	0.050	05/20/2021	ND	2.01	100	2.00	3.97		
Ethylbenzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.24		
Total Xylenes*	<0.150	0.150	05/20/2021	ND	5.97	99.5	6.00	2.59		
Total BTX	<0.300	0.300	05/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	112	16.0	05/21/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2021	ND	211	105	200	0.316	
DRO >C10-C28*	<10.0	10.0	05/20/2021	ND	208	104	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	05/20/2021	ND					

Surrogate: 1-Chlorooctane 95.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: SW COMPOSITE 6 (H211292-31)

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	05/20/2021	ND	1.97	98.7	2.00	3.65		
Toluene*	<0.050	0.050	05/20/2021	ND	2.01	100	2.00	3.97		
Ethylbenzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.24		
Total Xylenes*	<0.150	0.150	05/20/2021	ND	5.97	99.5	6.00	2.59		
Total BTEx	<0.300	0.300	05/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	7060	16.0	05/21/2021	ND	432	108	400	3.77	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	05/20/2021	ND	211	105	200	0.316	
DRO >C10-C28*	<10.0	10.0	05/20/2021	ND	208	104	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	05/20/2021	ND					

Surrogate: 1-Chlorooctane 95.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.1 % 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:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: SW COMPOSITE 7 (H211292-32)

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	05/20/2021	ND	1.97	98.7	2.00	3.65		
Toluene*	<0.050	0.050	05/20/2021	ND	2.01	100	2.00	3.97		
Ethylbenzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.24		
Total Xylenes*	<0.150	0.150	05/20/2021	ND	5.97	99.5	6.00	2.59		
Total BTEx	<0.300	0.300	05/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	4480	16.0	05/21/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2021	ND	211	105	200	0.316	
DRO >C10-C28*	<10.0	10.0	05/20/2021	ND	208	104	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	05/20/2021	ND					

Surrogate: 1-Chlorooctane 89.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 88.0 % 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:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: SW COMPOSITE 8 (H211292-33)

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	05/20/2021	ND	1.97	98.7	2.00	3.65	
Toluene*	<0.050	0.050	05/20/2021	ND	2.01	100	2.00	3.97	
Ethylbenzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.24	
Total Xylenes*	<0.150	0.150	05/20/2021	ND	5.97	99.5	6.00	2.59	
Total BTEx	<0.300	0.300	05/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	9060	16.0	05/21/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2021	ND	211	105	200	0.316	
DRO >C10-C28*	<10.0	10.0	05/20/2021	ND	208	104	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	05/20/2021	ND					

Surrogate: 1-Chlorooctane 93.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 96.0 % 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:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: SW COMPOSITE 9 (H211292-34)

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	05/20/2021	ND	1.97	98.7	2.00	3.65		
Toluene*	<0.050	0.050	05/20/2021	ND	2.01	100	2.00	3.97		
Ethylbenzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.24		
Total Xylenes*	<0.150	0.150	05/20/2021	ND	5.97	99.5	6.00	2.59		
Total BTX	<0.300	0.300	05/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	272	16.0	05/21/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2021	ND	211	105	200	0.316	
DRO >C10-C28*	<10.0	10.0	05/20/2021	ND	208	104	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	05/20/2021	ND					

Surrogate: 1-Chlorooctane 97.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 96.6 % 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:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: SW COMPOSITE 10 (H211292-35)

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	05/20/2021	ND	1.97	98.7	2.00	3.65		
Toluene*	<0.050	0.050	05/20/2021	ND	2.01	100	2.00	3.97		
Ethylbenzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.24		
Total Xylenes*	<0.150	0.150	05/20/2021	ND	5.97	99.5	6.00	2.59		
Total BTX	<0.300	0.300	05/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	128	16.0	05/21/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2021	ND	211	105	200	0.316	
DRO >C10-C28*	<10.0	10.0	05/20/2021	ND	208	104	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	05/20/2021	ND					

Surrogate: 1-Chlorooctane 90.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/18/2021	Sampling Date:	05/18/2021
Reported:	05/24/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT 040 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOCO HILLS, NM		

Sample ID: SW COMPOSITE 11 (H211292-36)

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	05/20/2021	ND	1.97	98.7	2.00	3.65		
Toluene*	<0.050	0.050	05/20/2021	ND	2.01	100	2.00	3.97		
Ethylbenzene*	<0.050	0.050	05/20/2021	ND	1.97	98.7	2.00	3.24		
Total Xylenes*	<0.150	0.150	05/20/2021	ND	5.97	99.5	6.00	2.59		
Total BTX	<0.300	0.300	05/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	864	16.0	05/21/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2021	ND	211	105	200	0.316	
DRO >C10-C28*	<10.0	10.0	05/20/2021	ND	208	104	200	6.95	
EXT DRO >C28-C36	<10.0	10.0	05/20/2021	ND					

Surrogate: 1-Chlorooctane 90.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 88.1 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
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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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

Page 1 of 4

Company Name: APACHE CORPORATION Project Manager: BRUCE BAKER Address: _____ City: HOUSTON State: TX Zip: 78240 Phone #: 432 631-6983 Fax #: _____ Project #: _____ Project Owner: _____ Project Name: EMPAAS A80 UNIT 010 BATTERY Project Location: LOCE HILLS TX Sampler Name: MARC RIVERA FOR LAB USE ONLY				BILL TO P.O. #: _____ Company: APACHE Attn: BRUCE BAKER Address: _____ City: HOUSTON State: TX Zip: 78240 Phone #: 432 631-6983 Fax #: _____				ANALYSIS REQUEST			
Lab I.D. Sample I.D. Hall 1992				(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :				MATRIX PRESERV SAMPLING			
1 composite 1 2 composite 2 3 composite 3 4 composite 4 5 composite 5 6 composite 6 7 composite 7 8 composite 8 9 composite 9 10 composite 10				DATE 5-18-2004 8:10 8:20 8:35 8:50 9:00 9:10 9:20 9:35 9:40 5:18-2004 9:45				TIME 8:10 8:20 8:35 8:50 9:00 9:10 9:20 9:35 9:40 9:45			
Relinquished By: Diego Hernandez Date: 5-18-2004 Received By: Marc Rivera Date: _____ Time: 3:12 Received By: _____ Time: _____				Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____ REMARKS: ATTN: BRUCE BAKER & NATALIE GLAARDEN				Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> <input checked="" type="checkbox"/> Cool Intact <input type="checkbox"/> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Corrected Temp. °C _____			



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

PAGE 2 OF 4

Company Name: <i>Apache Corporation</i>		BILL TO		ANALYSIS REQUEST											
Project Manager: <i>Rene Baker</i>		P.O. #:													
Address:		Company: <i>Apache</i>													
City: <i>Hobbs</i>		Attn: <i>Rene Baker</i>													
State: <i>NM</i>		Address:													
Phone #: <i>432 631-6983</i>		City: <i>Hobbs</i>													
Fax #:		State: <i>NM</i>													
Project #:		Zip: <i>88240</i>													
Project Name: <i>EMPIRE 480 UNIT DYC GATTWAY</i>		Phone #: <i>432 631-6983</i>													
Project Location: <i>Loce Hills N.M.</i>		Fax #:													
Sampler Name: <i>Juan Talarco</i>															
FOR LAB USE ONLY															
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING			
								GROUNDWATER							
								WASTEWATER							
								SOIL							
								OIL							
								SLUDGE							
								OTHER :							
								ACID/BASE:							
								ICE / COOL							
								OTHER :							
								DATE		TIME					
<i>#211292</i>		<i>11</i>		<i>COMPOSITE</i>		<i>11</i>		<i>5/18/21</i>		<i>9:50</i>		<i>BTEX</i>			
<i>12</i>		<i>COMPOSITE</i>		<i>12</i>		<i>12</i>		<i>10:00</i>		<i>10:10</i>		<i>CL -</i>			
<i>13</i>		<i>COMPOSITE</i>		<i>13</i>		<i>13</i>		<i>10:10</i>		<i>10:15</i>		<i>EXT. TPH</i>			
<i>14</i>		<i>COMPOSITE</i>		<i>14</i>		<i>14</i>		<i>10:20</i>		<i>10:35</i>					
<i>15</i>		<i>COMPOSITE</i>		<i>15</i>		<i>15</i>		<i>10:35</i>		<i>10:45</i>					
<i>16</i>		<i>COMPOSITE</i>		<i>16</i>		<i>16</i>		<i>10:45</i>		<i>10:50</i>					
<i>17</i>		<i>COMPOSITE</i>		<i>17</i>		<i>17</i>		<i>10:50</i>							
<i>18</i>		<i>COMPOSITE</i>		<i>18</i>		<i>18</i>									
<i>19</i>		<i>COMPOSITE</i>		<i>19</i>		<i>19</i>									
<i>20</i>		<i>COMPOSITE</i>		<i>20</i>		<i>20</i>									
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Relinquished By:		Date: <i>5-18-2021</i>		Received By:		Date: <i>5-18-2021</i>		Time: <i>9:12</i>		Received By:		Time:			
<i>Diego Miranda</i>				<i>Amelia Delgado</i>											
Relinquished By:		Date:		Received By:		Date:		Time:		Received By:		Time:			
Delivered By: (Circle One)		Observed Temp. °C <i>5.7</i>		Sample Condition		CHECKED BY:		Turnaround Time:		Standard		Bacteria (only)			
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact		(Initials)		Thermometer ID #113		Rush		Sample Condition			
				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<i>AS</i>				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Observed Temp. °C			
				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Corrected Temp. °C			
REMARKS: <i>ATTN: Rene Baker</i> <i>A NATALIE CLADON</i>															
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:															
All Results are emailed. Please provide Email address:															

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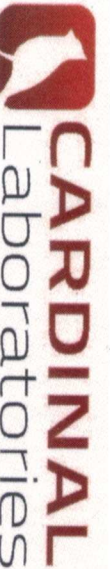
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

0465 3 of 4

Company Name: APACHE CORPORATION Project Manager: BRUCE BAKER Address: City: HOBBS State: NM Zip: 88240 Phone #: 432 631-6983 Fax #: Project #: Project Name: 4MPAC AGO UNIT 040 BATEX Project Location: LEECE HILLS N.N. Sampler Name: JYHU TALAVANOS		BILL TO P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST	
Lab I.D. Sample I.D. 21 Composite 21 22 Composite 22 23 Composite 23 24 Composite 24 25 Composite 25 26 SW Composite 1 27 SW Composite 2 28 SW Composite 3 29 SW Composite 4 30 SW Composite 5		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:		MATRIX PRESERV SAMPLING	
DATE 5-18-24 11:10 11:25 11:30 11:40 11:50 12:00 1:05 1:10 1:15 5-18-24 11:20		TIME 11:10 11:25 11:30 11:40 11:50 12:00 1:05 1:10 1:15 5-18-24 11:20		BTEX CL- EXT. TPH	
Relinquished By: Digo Miranda Relinquished Date: 5-18-2024 Received By: Aurora Chabazyn Received Date: 5-18-2024		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: Remarks: ATTN: BRUCE BAKER NATHAN CLADON		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #113 Correction Factor None <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C 5.7 Corrected Temp. °C 5.7		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Checked By: (Initials) A.C.	

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

PAGE 4 OF 4

Company Name: APACHE CORPORATION		P.O. #:		ANALYSIS REQUEST	
Project Manager: BRUCE BAKER		Company: APACHE			
Address:		Attn: BRUCE BAKER			
City: HOBBS State: NM Zip: 88240		Address: HOBBS			
Phone #: 732 631-6983 Fax #:		City: ALM			
Project #:		State: Zip:			
Project Name: EMPIRE ASO UNIT 040 BATTERY		Phone # 432 631-6983			
Project Location: LECC HEAS N.M.		Fax #:			
Sampler Name: DIEGO MARTINEZ					

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTEX	CL	EXT. TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
421199A														
31	SW COMPOSITE 6	G	1							5/18/21	1:30			
32	SW COMPOSITE 7										1:35			
33	SW COMPOSITE 8										1:45			
34	SW COMPOSITE 9										1:50			
35	SW COMPOSITE 10										2:00			
36	SW COMPOSITE 11	G	1							5/18/21	2:15			

Relinquished By: Diego Martinez		Date: 5-18-2021		Received By: BRUCE BAKER		Date: 5-18-2021	
Relinquished By: Diego Martinez		Time: 3:12		Received By: BRUCE BAKER		Time: 3:12	
Delivered By: (Circle One)		Observed Temp. °C 5.7		Sample Condition		CHECKED BY: (Initials) AB	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Turnaround Time:		Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Bacteria (only) <input type="checkbox"/>		Sample Condition <input type="checkbox"/>	
Thermometer ID #113		Correction Factor None		Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		Observed Temp. °C	
REMARKS: ATTN: BRUCE BAKER							
+ NATALIE CLARSON							

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

June 03, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EAU ABO UNIT D-40

Enclosed are the results of analyses for samples received by the laboratory on 06/02/21 16:35.

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, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/02/2021
 Reported: 06/03/2021
 Project Name: EAU ABO UNIT D-40
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 06/02/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SWC 12 (H211413-01)

BTEx 8021B		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2021	ND	1.98	98.8	2.00	2.74	
Toluene*	<0.050	0.050	06/03/2021	ND	2.12	106	2.00	0.914	
Ethylbenzene*	<0.050	0.050	06/03/2021	ND	2.05	103	2.00	1.57	
Total Xylenes*	<0.150	0.150	06/03/2021	ND	6.17	103	6.00	1.30	
Total BTEx	<0.300	0.300	06/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 86.5-115

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	06/03/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2021	ND	206	103	200	2.13	
DRO >C10-C28*	<10.0	10.0	06/03/2021	ND	207	104	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	06/03/2021	ND					

Surrogate: 1-Chlorooctane 90.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.7 % 38.9-142

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Analytical Results For:

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

Received: 06/02/2021
 Reported: 06/03/2021
 Project Name: EAU ABO UNIT D-40
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 06/02/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SWC 2 (H211413-02)

BTX 8021B			mg/L							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/03/2021	ND	1.98	98.8	2.00	2.74		
Toluene*	<0.050	0.050	06/03/2021	ND	2.12	106	2.00	0.914		
Ethylbenzene*	<0.050	0.050	06/03/2021	ND	2.05	103	2.00	1.57		
Total Xylenes*	<0.150	0.150	06/03/2021	ND	6.17	103	6.00	1.30		
Total BTX	<0.300	0.300	06/03/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 86.5-115

Chloride, SM4500CI-B			mg/kg							
			Analyzed By: GM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	06/03/2021	ND	416	104	400	3.77		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/03/2021	ND	206	103	200	2.13		
DRO >C10-C28*	<10.0	10.0	06/03/2021	ND	207	104	200	2.60		
EXT DRO >C28-C36	<10.0	10.0	06/03/2021	ND						

Surrogate: 1-Chlorooctane 76.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 71.9 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/02/2021
 Reported: 06/03/2021
 Project Name: EAU ABO UNIT D-40
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 06/02/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SWC 11 (H211413-03)

BTX 8021B		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2021	ND	1.98	98.8	2.00	2.74	
Toluene*	<0.050	0.050	06/03/2021	ND	2.12	106	2.00	0.914	
Ethylbenzene*	<0.050	0.050	06/03/2021	ND	2.05	103	2.00	1.57	
Total Xylenes*	<0.150	0.150	06/03/2021	ND	6.17	103	6.00	1.30	
Total BTX	<0.300	0.300	06/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 86.5-115

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/03/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2021	ND	206	103	200	2.13	
DRO >C10-C28*	<10.0	10.0	06/03/2021	ND	207	104	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	06/03/2021	ND					

Surrogate: 1-Chlorooctane 89.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.1 % 38.9-142

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Analytical Results For:

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

Received: 06/02/2021
 Reported: 06/03/2021
 Project Name: EAU ABO UNIT D-40
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 06/02/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CP 26 (H211413-04)

BTX 8021B		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2021	ND	1.98	98.8	2.00	2.74	
Toluene*	<0.050	0.050	06/03/2021	ND	2.12	106	2.00	0.914	
Ethylbenzene*	<0.050	0.050	06/03/2021	ND	2.05	103	2.00	1.57	
Total Xylenes*	<0.150	0.150	06/03/2021	ND	6.17	103	6.00	1.30	
Total BTX	<0.300	0.300	06/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 86.5-115

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	06/03/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2021	ND	206	103	200	2.13	
DRO >C10-C28*	<10.0	10.0	06/03/2021	ND	207	104	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	06/03/2021	ND					

Surrogate: 1-Chlorooctane 83.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/02/2021
 Reported: 06/03/2021
 Project Name: EAU ABO UNIT D-40
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 06/02/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CP 27 (H211413-05)

BTX 8021B		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2021	ND	1.98	98.8	2.00	2.74	
Toluene*	<0.050	0.050	06/03/2021	ND	2.12	106	2.00	0.914	
Ethylbenzene*	<0.050	0.050	06/03/2021	ND	2.05	103	2.00	1.57	
Total Xylenes*	<0.150	0.150	06/03/2021	ND	6.17	103	6.00	1.30	
Total BTX	<0.300	0.300	06/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 86.5-115

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4960	16.0	06/03/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2021	ND	206	103	200	2.13	
DRO >C10-C28*	<10.0	10.0	06/03/2021	ND	207	104	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	06/03/2021	ND					

Surrogate: 1-Chlorooctane 86.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/02/2021
 Reported: 06/03/2021
 Project Name: EAU ABO UNIT D-40
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 06/02/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CP 28 (H211413-06)

BTX 8021B		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2021	ND	1.98	98.8	2.00	2.74	
Toluene*	<0.050	0.050	06/03/2021	ND	2.12	106	2.00	0.914	
Ethylbenzene*	<0.050	0.050	06/03/2021	ND	2.05	103	2.00	1.57	
Total Xylenes*	<0.150	0.150	06/03/2021	ND	6.17	103	6.00	1.30	
Total BTX	<0.300	0.300	06/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 86.5-115

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/03/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2021	ND	206	103	200	2.13	
DRO >C10-C28*	<10.0	10.0	06/03/2021	ND	207	104	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	06/03/2021	ND					

Surrogate: 1-Chlorooctane 86.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.7 % 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: 06/02/2021
 Reported: 06/03/2021
 Project Name: EAU ABO UNIT D-40
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 06/02/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CP 29 (H211413-07)

BTX 8021B		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2021	ND	1.98	98.8	2.00	2.74	
Toluene*	<0.050	0.050	06/03/2021	ND	2.12	106	2.00	0.914	
Ethylbenzene*	<0.050	0.050	06/03/2021	ND	2.05	103	2.00	1.57	
Total Xylenes*	<0.150	0.150	06/03/2021	ND	6.17	103	6.00	1.30	
Total BTX	<0.300	0.300	06/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 86.5-115

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	06/03/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2021	ND	206	103	200	2.13	
DRO >C10-C28*	<10.0	10.0	06/03/2021	ND	207	104	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	06/03/2021	ND					

Surrogate: 1-Chlorooctane 86.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.4 % 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: 06/02/2021
 Reported: 06/03/2021
 Project Name: EAU ABO UNIT D-40
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 06/02/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CP 30 (H211413-08)

BTX 8021B		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2021	ND	1.98	98.8	2.00	2.74	
Toluene*	<0.050	0.050	06/03/2021	ND	2.12	106	2.00	0.914	
Ethylbenzene*	<0.050	0.050	06/03/2021	ND	2.05	103	2.00	1.57	
Total Xylenes*	<0.150	0.150	06/03/2021	ND	6.17	103	6.00	1.30	
Total BTX	<0.300	0.300	06/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 86.5-115

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	06/03/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2021	ND	206	103	200	2.13	
DRO >C10-C28*	<10.0	10.0	06/03/2021	ND	207	104	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	06/03/2021	ND					

Surrogate: 1-Chlorooctane 88.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 93.7 % 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: 06/02/2021
 Reported: 06/03/2021
 Project Name: EAU ABO UNIT D-40
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 06/02/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SWCP 13 (H211413-09)

BTX 8021B		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2021	ND	1.98	98.8	2.00	2.74	
Toluene*	<0.050	0.050	06/03/2021	ND	2.12	106	2.00	0.914	
Ethylbenzene*	<0.050	0.050	06/03/2021	ND	2.05	103	2.00	1.57	
Total Xylenes*	<0.150	0.150	06/03/2021	ND	6.17	103	6.00	1.30	
Total BTX	<0.300	0.300	06/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 86.5-115

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	06/03/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2021	ND	206	103	200	2.13	
DRO >C10-C28*	<10.0	10.0	06/03/2021	ND	207	104	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	06/03/2021	ND					

Surrogate: 1-Chlorooctane 76.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.5 % 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: 06/02/2021
 Reported: 06/03/2021
 Project Name: EAU ABO UNIT D-40
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 06/02/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SWCP 14 (H211413-10)

BTEx 8021B		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2021	ND	1.98	98.8	2.00	2.74	
Toluene*	<0.050	0.050	06/03/2021	ND	2.12	106	2.00	0.914	
Ethylbenzene*	<0.050	0.050	06/03/2021	ND	2.05	103	2.00	1.57	
Total Xylenes*	<0.150	0.150	06/03/2021	ND	6.17	103	6.00	1.30	
Total BTEx	<0.300	0.300	06/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 86.5-115

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/03/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2021	ND	206	103	200	2.13	
DRO >C10-C28*	<10.0	10.0	06/03/2021	ND	207	104	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	06/03/2021	ND					

Surrogate: 1-Chlorooctane 81.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/02/2021
 Reported: 06/03/2021
 Project Name: EAU ABO UNIT D-40
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 06/02/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SWCP 15 (H211413-11)

BTEx 8021B		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2021	ND	1.98	98.8	2.00	2.74	
Toluene*	<0.050	0.050	06/03/2021	ND	2.12	106	2.00	0.914	
Ethylbenzene*	<0.050	0.050	06/03/2021	ND	2.05	103	2.00	1.57	
Total Xylenes*	<0.150	0.150	06/03/2021	ND	6.17	103	6.00	1.30	
Total BTEx	<0.300	0.300	06/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 86.5-115

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/03/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/03/2021	ND	206	103	200	2.13	
DRO >C10-C28*	<10.0	10.0	06/03/2021	ND	207	104	200	2.60	
EXT DRO >C28-C36	<10.0	10.0	06/03/2021	ND					

Surrogate: 1-Chlorooctane 85.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.4 % 38.9-142

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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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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: <u>Apache</u>		P.O. #:		BILL TO				ANALYSIS REQUEST			
Project Manager: <u>Jeff Brown</u>		Company:									
Address:		Attn:									
City: <u>Hobbs</u>		Address:									
State: <u>NM</u>		City:									
Zip: <u>88240</u>		State:									
Phone #:		Fax #:									
Project #:		Project Owner:									
Project Location: <u>EPAN 600 unit D-40</u>		Phone #:									
Sampler Name: <u>See Certificate</u>		Fax #:									
FOR LAB USE ONLY											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX		PRESERV.	SAMPLING				
		GROUNDWATER		WASTEWATER		SOIL		DATE	TIME		
		SLUDGE		OTHER :		ACID/BASE:					
		OTHER :		ICE COOL		OTHER :					
<u>H211413</u>	<u>SWC12</u>							<u>6-2</u>	<u>11:34</u>	<u>X</u>	<u>EXT TPN</u>
<u>1</u>	<u>SWC12</u>								<u>11:36</u>	<u>X</u>	<u>BTEX</u>
<u>2</u>	<u>SWC11</u>								<u>11:38</u>		
<u>3</u>	<u>CP27</u>								<u>3:15</u>		
<u>4</u>	<u>CP28</u>								<u>3:17</u>		
<u>5</u>	<u>CP29</u>								<u>3:18</u>		
<u>6</u>	<u>CP30</u>								<u>3:20</u>		
<u>7</u>	<u>SWP13</u>								<u>3:21</u>	<u>X</u>	<u>X</u>
<u>8</u>	<u>SWP13</u>										
<u>9</u>	<u>SWP14</u>										
<u>10</u>	<u>SWP14</u>										

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Relinquished By: <u>[Signature]</u>	Date: <u>6/10/21</u>	Received By: <u>[Signature]</u>	Date: <u>6/10/21</u>	Time: <u>4:35</u>	Received By: <u>[Signature]</u>	Time: <u>4:35</u>
Relinquished By: <u>[Signature]</u>	Date: <u>6/10/21</u>	Received By: <u>[Signature]</u>	Date: <u>6/10/21</u>	Time: <u>4:35</u>	Received By: <u>[Signature]</u>	Time: <u>4:35</u>

Delivered By: (Circle One)	Observed Temp. °C	Corrected Temp. °C	Sample Condition	CHECKED BY: (Initials)	Turnaround Time:	Standard	Rush	Bacteria (only)	Sample Condition
Sampler - UPS - Bus - Other:	<u>5.7</u>		<input checked="" type="checkbox"/> Intact <input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No	<u>Y.B.</u>		<input checked="" type="checkbox"/>		<input type="checkbox"/> Intact <input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No	<u>Observed Temp. °C</u> <u>Corrected Temp. °C</u>

Thermometer ID #113
Correction Factor None

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

All Results are emailed. Please provide Email address:

REMARKS:

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Aspen Brown		P.O. #:		BILL TO										ANALYSIS REQUEST													
Project Manager: Jesse Brown		Company:																									
Address:		Attn:																									
City: Hobbs		State: NM		Zip: 88240																							
Phone #:		Fax #:		Address:																							
Project #:		City:		State:		Zip:																					
Project Name:		Phone #:																									
Project Location: EAU AND Unit D-40		Fax #:																									
Sampler Name: Jesse Brown																											
FOR LAB USE ONLY																											
Lab I.D. H21/413		Sample I.D.																									
11 SWCP 15		(G)RAB OR (C)OMP.																									
		# CONTAINERS																									
		GROUNDWATER																									
		WASTEWATER																									
		SOIL																									
		OIL																									
		SLUDGE																									
		OTHER :																									
		ACID/BASE:																									
		ICE/ COOL																									
		OTHER :																									
		DATE		TIME																							
		6-2		3:22																							
		C1		EXT TPA																							
		8		DTEX																							

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. 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 hereunder. By Cardinal, its affiliates or successors, less of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Jesse Brown		Date: 6/10/21		Received By: Jessara Chabryc		Time: 4:35		Received By: Jessara Chabryc		Time: 4:35		Date: 6/10/21		Received By: Jessara Chabryc		Time: 4:35	
Relinquished By: Jesse Brown		Date: 6/10/21		Received By: Jessara Chabryc		Time: 4:35		Received By: Jessara Chabryc		Time: 4:35		Date: 6/10/21		Received By: Jessara Chabryc		Time: 4:35	

Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		CHECKED BY: (Initials)		Turnaround Time:		Standard		Bacteria (only)		Sample Condition	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact		Yes		Thermometer ID #113		Rush		Cool Intact		Observed Temp. °C	
				Yes		No						Yes			
				No		Yes						No			
				No		No						No			

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

REMARKS:

All Results are emailed. Please provide Email address:

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



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

June 04, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EAU D40

Enclosed are the results of analyses for samples received by the laboratory on 06/03/21 17:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/03/2021
 Reported: 06/04/2021
 Project Name: EAU D40
 Project Number: EAU D - 40 CTB
 Project Location: NOT GIVEN

Sampling Date: 06/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SWCP 1 (H211431-01)

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	06/04/2021	ND	2.04	102	2.00	3.67	
Toluene*	<0.050	0.050	06/04/2021	ND	2.00	100	2.00	4.18	
Ethylbenzene*	<0.050	0.050	06/04/2021	ND	1.94	97.1	2.00	4.13	
Total Xylenes*	<0.150	0.150	06/04/2021	ND	5.88	98.0	6.00	4.01	
Total BTEX	<0.300	0.300	06/04/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	720	16.0	06/04/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2021	ND	222	111	200	0.845	
DRO >C10-C28*	<10.0	10.0	06/04/2021	ND	242	121	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	06/04/2021	ND					

Surrogate: 1-Chlorooctane 86.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.9 % 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: 06/03/2021
 Reported: 06/04/2021
 Project Name: EAU D40
 Project Number: EAU D - 40 CTB
 Project Location: NOT GIVEN

Sampling Date: 06/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SWCP 7 (H211431-02)

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	06/04/2021	ND	2.04	102	2.00	3.67	
Toluene*	<0.050	0.050	06/04/2021	ND	2.00	100	2.00	4.18	
Ethylbenzene*	<0.050	0.050	06/04/2021	ND	1.94	97.1	2.00	4.13	
Total Xylenes*	<0.150	0.150	06/04/2021	ND	5.88	98.0	6.00	4.01	
Total BTEX	<0.300	0.300	06/04/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	160	16.0	06/04/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2021	ND	222	111	200	0.845	
DRO >C10-C28*	<10.0	10.0	06/04/2021	ND	242	121	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	06/04/2021	ND					

Surrogate: 1-Chlorooctane 87.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.0 % 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: 06/03/2021
 Reported: 06/04/2021
 Project Name: EAU D40
 Project Number: EAU D - 40 CTB
 Project Location: NOT GIVEN

Sampling Date: 06/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SWCP 6 (H211431-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/04/2021	ND	2.04	102	2.00	3.67		
Toluene*	<0.050	0.050	06/04/2021	ND	2.00	100	2.00	4.18		
Ethylbenzene*	<0.050	0.050	06/04/2021	ND	1.94	97.1	2.00	4.13		
Total Xylenes*	<0.150	0.150	06/04/2021	ND	5.88	98.0	6.00	4.01		
Total BTEx	<0.300	0.300	06/04/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	80.0	16.0	06/04/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2021	ND	222	111	200	0.845	
DRO >C10-C28*	<10.0	10.0	06/04/2021	ND	242	121	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	06/04/2021	ND					

Surrogate: 1-Chlorooctane 91.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.4 % 38.9-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/03/2021
 Reported: 06/04/2021
 Project Name: EAU D40
 Project Number: EAU D - 40 CTB
 Project Location: NOT GIVEN

Sampling Date: 06/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SWCP 3 (H211431-04)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/04/2021	ND	2.04	102	2.00	3.67		
Toluene*	<0.050	0.050	06/04/2021	ND	2.00	100	2.00	4.18		
Ethylbenzene*	<0.050	0.050	06/04/2021	ND	1.94	97.1	2.00	4.13		
Total Xylenes*	<0.150	0.150	06/04/2021	ND	5.88	98.0	6.00	4.01		
Total BTEX	<0.300	0.300	06/04/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	128	16.0	06/04/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2021	ND	222	111	200	0.845	
DRO >C10-C28*	<10.0	10.0	06/04/2021	ND	242	121	200	1.32	
EXT DRO >C28-C36	<10.0	10.0	06/04/2021	ND					

Surrogate: 1-Chlorooctane 86.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.5 % 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

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



RUSH!!

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 7 of 7



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

June 07, 2021

JEFFREY BROOM

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EAU D40

Enclosed are the results of analyses for samples received by the laboratory on 06/04/21 16:35.

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

Received: 06/04/2021
 Reported: 06/07/2021
 Project Name: EAU D40
 Project Number: EAU D-40 CTB
 Project Location: NOT GIVEN

Sampling Date: 06/04/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CP 1 @ 4' (H211441-01)

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	06/07/2021	ND	1.91	95.3	2.00	5.98	
Toluene*	<0.050	0.050	06/07/2021	ND	1.89	94.5	2.00	5.17	
Ethylbenzene*	<0.050	0.050	06/07/2021	ND	1.80	89.9	2.00	6.11	
Total Xylenes*	<0.150	0.150	06/07/2021	ND	5.44	90.6	6.00	6.11	
Total BTEX	<0.300	0.300	06/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	80.0	16.0	06/07/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2021	ND	187	93.6	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/07/2021	ND	184	92.0	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	06/07/2021	ND					

Surrogate: 1-Chlorooctane 82.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 79.8 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/04/2021
 Reported: 06/07/2021
 Project Name: EAU D40
 Project Number: EAU D-40 CTB
 Project Location: NOT GIVEN

Sampling Date: 06/04/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CP 2 @ 4' (H211441-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2021	ND	1.91	95.3	2.00	5.98	
Toluene*	<0.050	0.050	06/07/2021	ND	1.89	94.5	2.00	5.17	
Ethylbenzene*	<0.050	0.050	06/07/2021	ND	1.80	89.9	2.00	6.11	
Total Xylenes*	<0.150	0.150	06/07/2021	ND	5.44	90.6	6.00	6.11	
Total BTX	<0.300	0.300	06/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	06/07/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2021	ND	187	93.6	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/07/2021	ND	184	92.0	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	06/07/2021	ND					

Surrogate: 1-Chlorooctane 89.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 88.7 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/04/2021
 Reported: 06/07/2021
 Project Name: EAU D40
 Project Number: EAU D-40 CTB
 Project Location: NOT GIVEN

Sampling Date: 06/04/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CP 3 @ 4' (H211441-03)

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	06/07/2021	ND	1.91	95.3	2.00	5.98	
Toluene*	<0.050	0.050	06/07/2021	ND	1.89	94.5	2.00	5.17	
Ethylbenzene*	<0.050	0.050	06/07/2021	ND	1.80	89.9	2.00	6.11	
Total Xylenes*	<0.150	0.150	06/07/2021	ND	5.44	90.6	6.00	6.11	
Total BTX	<0.300	0.300	06/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3520	16.0	06/07/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2021	ND	187	93.6	200	2.52	
DRO >C10-C28*	71.2	10.0	06/07/2021	ND	184	92.0	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	06/07/2021	ND					

Surrogate: 1-Chlorooctane 81.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.1 % 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
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 06/04/2021
 Reported: 06/07/2021
 Project Name: EAU D40
 Project Number: EAU D-40 CTB
 Project Location: NOT GIVEN

Sampling Date: 06/04/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CP 4 @ 4' (H211441-04)

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	06/07/2021	ND	1.91	95.3	2.00	5.98	
Toluene*	<0.050	0.050	06/07/2021	ND	1.89	94.5	2.00	5.17	
Ethylbenzene*	<0.050	0.050	06/07/2021	ND	1.80	89.9	2.00	6.11	
Total Xylenes*	<0.150	0.150	06/07/2021	ND	5.44	90.6	6.00	6.11	
Total BTX	<0.300	0.300	06/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	5120	16.0	06/07/2021	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2021	ND	187	93.6	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/07/2021	ND	184	92.0	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	06/07/2021	ND					

Surrogate: 1-Chlorooctane 77.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/04/2021
 Reported: 06/07/2021
 Project Name: EAU D40
 Project Number: EAU D-40 CTB
 Project Location: NOT GIVEN

Sampling Date: 06/04/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CP 5 @ 4' (H211441-05)

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	06/07/2021	ND	1.91	95.3	2.00	5.98	
Toluene*	<0.050	0.050	06/07/2021	ND	1.89	94.5	2.00	5.17	
Ethylbenzene*	<0.050	0.050	06/07/2021	ND	1.80	89.9	2.00	6.11	
Total Xylenes*	<0.150	0.150	06/07/2021	ND	5.44	90.6	6.00	6.11	
Total BTEx	<0.300	0.300	06/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	4240	16.0	06/07/2021	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2021	ND	187	93.6	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/07/2021	ND	184	92.0	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	06/07/2021	ND					

Surrogate: 1-Chlorooctane 84.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.9 % 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
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 06/04/2021
 Reported: 06/07/2021
 Project Name: EAU D40
 Project Number: EAU D-40 CTB
 Project Location: NOT GIVEN

Sampling Date: 06/04/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SWCP 17 (H211441-06)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/07/2021	ND	1.91	95.3	2.00	5.98		
Toluene*	<0.050	0.050	06/07/2021	ND	1.89	94.5	2.00	5.17		
Ethylbenzene*	<0.050	0.050	06/07/2021	ND	1.80	89.9	2.00	6.11		
Total Xylenes*	<0.150	0.150	06/07/2021	ND	5.44	90.6	6.00	6.11		
Total BTX	<0.300	0.300	06/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	1840	16.0	06/07/2021	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2021	ND	187	93.6	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/07/2021	ND	184	92.0	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	06/07/2021	ND					

Surrogate: 1-Chlorooctane 80.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 77.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/04/2021
 Reported: 06/07/2021
 Project Name: EAU D40
 Project Number: EAU D-40 CTB
 Project Location: NOT GIVEN

Sampling Date: 06/04/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SWCP 18 (H211441-07)

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	06/07/2021	ND	1.91	95.3	2.00	5.98		
Toluene*	<0.050	0.050	06/07/2021	ND	1.89	94.5	2.00	5.17		
Ethylbenzene*	<0.050	0.050	06/07/2021	ND	1.80	89.9	2.00	6.11		
Total Xylenes*	<0.150	0.150	06/07/2021	ND	5.44	90.6	6.00	6.11		
Total BTEx	<0.300	0.300	06/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	5200	16.0	06/07/2021	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2021	ND	187	93.6	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/07/2021	ND	184	92.0	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	06/07/2021	ND					

Surrogate: 1-Chlorooctane 85.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/04/2021
 Reported: 06/07/2021
 Project Name: EAU D40
 Project Number: EAU D-40 CTB
 Project Location: NOT GIVEN

Sampling Date: 06/04/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CP 31 @ 4' (H211441-08)

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	06/07/2021	ND	1.91	95.3	2.00	5.98	
Toluene*	<0.050	0.050	06/07/2021	ND	1.89	94.5	2.00	5.17	
Ethylbenzene*	<0.050	0.050	06/07/2021	ND	1.80	89.9	2.00	6.11	
Total Xylenes*	<0.150	0.150	06/07/2021	ND	5.44	90.6	6.00	6.11	
Total BTEX	<0.300	0.300	06/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	1390	16.0	06/07/2021	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2021	ND	187	93.6	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/07/2021	ND	184	92.0	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	06/07/2021	ND					

Surrogate: 1-Chlorooctane 72.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 70.0 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/04/2021
 Reported: 06/07/2021
 Project Name: EAU D40
 Project Number: EAU D-40 CTB
 Project Location: NOT GIVEN

Sampling Date: 06/04/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SWCP 4 (H211441-09)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2021	ND	1.91	95.3	2.00	5.98	
Toluene*	<0.050	0.050	06/07/2021	ND	1.89	94.5	2.00	5.17	
Ethylbenzene*	<0.050	0.050	06/07/2021	ND	1.80	89.9	2.00	6.11	
Total Xylenes*	<0.150	0.150	06/07/2021	ND	5.44	90.6	6.00	6.11	
Total BTX	<0.300	0.300	06/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	06/07/2021	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2021	ND	187	93.6	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/07/2021	ND	184	92.0	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	06/07/2021	ND					

Surrogate: 1-Chlorooctane 80.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 78.7 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/04/2021
 Reported: 06/07/2021
 Project Name: EAU D40
 Project Number: EAU D-40 CTB
 Project Location: NOT GIVEN

Sampling Date: 06/04/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SWCP 16 (H211441-10)

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	06/07/2021	ND	1.94	97.1	2.00	5.41		
Toluene*	<0.050	0.050	06/07/2021	ND	1.98	99.0	2.00	7.13		
Ethylbenzene*	<0.050	0.050	06/07/2021	ND	1.93	96.4	2.00	6.92		
Total Xylenes*	<0.150	0.150	06/07/2021	ND	5.80	96.7	6.00	6.99		
Total BTEx	<0.300	0.300	06/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	208	16.0	06/07/2021	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2021	ND	187	93.6	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/07/2021	ND	184	92.0	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	06/07/2021	ND					

Surrogate: 1-Chlorooctane 83.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.9 % 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
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 06/04/2021
 Reported: 06/07/2021
 Project Name: EAU D40
 Project Number: EAU D-40 CTB
 Project Location: NOT GIVEN

Sampling Date: 06/04/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SWCP 19 (H211441-11)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2021	ND	1.94	97.1	2.00	5.41	
Toluene*	<0.050	0.050	06/07/2021	ND	1.98	99.0	2.00	7.13	
Ethylbenzene*	<0.050	0.050	06/07/2021	ND	1.93	96.4	2.00	6.92	
Total Xylenes*	<0.150	0.150	06/07/2021	ND	5.80	96.7	6.00	6.99	
Total BTX	<0.300	0.300	06/07/2021	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	1070	16.0	06/07/2021	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2021	ND	187	93.6	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/07/2021	ND	184	92.0	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	06/07/2021	ND					

Surrogate: 1-Chlorooctane 80.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 78.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/04/2021
 Reported: 06/07/2021
 Project Name: EAU D40
 Project Number: EAU D-40 CTB
 Project Location: NOT GIVEN

Sampling Date: 06/04/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SWCP 20 (H211441-12)

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	06/07/2021	ND	1.94	97.1	2.00	5.41		
Toluene*	<0.050	0.050	06/07/2021	ND	1.98	99.0	2.00	7.13		
Ethylbenzene*	<0.050	0.050	06/07/2021	ND	1.93	96.4	2.00	6.92		
Total Xylenes*	<0.150	0.150	06/07/2021	ND	5.80	96.7	6.00	6.99		
Total BTEx	<0.300	0.300	06/07/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	15000	16.0	06/07/2021	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2021	ND	187	93.6	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/07/2021	ND	184	92.0	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	06/07/2021	ND					

Surrogate: 1-Chlorooctane 81.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/04/2021
 Reported: 06/07/2021
 Project Name: EAU D40
 Project Number: EAU D-40 CTB
 Project Location: NOT GIVEN

Sampling Date: 06/04/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SWCP 21 (H211441-13)

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	06/07/2021	ND	1.94	97.1	2.00	5.41		
Toluene*	<0.050	0.050	06/07/2021	ND	1.98	99.0	2.00	7.13		
Ethylbenzene*	<0.050	0.050	06/07/2021	ND	1.93	96.4	2.00	6.92		
Total Xylenes*	<0.150	0.150	06/07/2021	ND	5.80	96.7	6.00	6.99		
Total BTEx	<0.300	0.300	06/07/2021	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	20000	16.0	06/07/2021	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2021	ND	187	93.6	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/07/2021	ND	184	92.0	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	06/07/2021	ND					

Surrogate: 1-Chlorooctane 85.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/04/2021
 Reported: 06/07/2021
 Project Name: EAU D40
 Project Number: EAU D-40 CTB
 Project Location: NOT GIVEN

Sampling Date: 06/04/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SWCP 22 (H211441-14)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/07/2021	ND	1.94	97.1	2.00	5.41		
Toluene*	<0.050	0.050	06/07/2021	ND	1.98	99.0	2.00	7.13		
Ethylbenzene*	<0.050	0.050	06/07/2021	ND	1.93	96.4	2.00	6.92		
Total Xylenes*	<0.150	0.150	06/07/2021	ND	5.80	96.7	6.00	6.99		
Total BTX	<0.300	0.300	06/07/2021	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	3840	16.0	06/07/2021	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2021	ND	187	93.6	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/07/2021	ND	184	92.0	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	06/07/2021	ND					

Surrogate: 1-Chlorooctane 84.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.3 % 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
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 06/04/2021
 Reported: 06/07/2021
 Project Name: EAU D40
 Project Number: EAU D-40 CTB
 Project Location: NOT GIVEN

Sampling Date: 06/04/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CP 32 @ SURFACE (H211441-15)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2021	ND	1.94	97.1	2.00	5.41	
Toluene*	<0.050	0.050	06/07/2021	ND	1.98	99.0	2.00	7.13	
Ethylbenzene*	<0.050	0.050	06/07/2021	ND	1.93	96.4	2.00	6.92	
Total Xylenes*	<0.150	0.150	06/07/2021	ND	5.80	96.7	6.00	6.99	
Total BTX	<0.300	0.300	06/07/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9520	16.0	06/07/2021	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2021	ND	187	93.6	200	2.52	
DRO >C10-C28*	1050	10.0	06/07/2021	ND	184	92.0	200	4.87	
EXT DRO >C28-C36	152	10.0	06/07/2021	ND					

Surrogate: 1-Chlorooctane 87.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 123 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/04/2021
 Reported: 06/07/2021
 Project Name: EAU D40
 Project Number: EAU D-40 CTB
 Project Location: NOT GIVEN

Sampling Date: 06/04/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CP 33 @ SURFACE (H211441-16)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2021	ND	1.94	97.1	2.00	5.41	
Toluene*	<0.050	0.050	06/07/2021	ND	1.98	99.0	2.00	7.13	
Ethylbenzene*	<0.050	0.050	06/07/2021	ND	1.93	96.4	2.00	6.92	
Total Xylenes*	<0.150	0.150	06/07/2021	ND	5.80	96.7	6.00	6.99	
Total BTX	<0.300	0.300	06/07/2021	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	16100	16.0	06/07/2021	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2021	ND	187	93.6	200	2.52	
DRO >C10-C28*	103	10.0	06/07/2021	ND	184	92.0	200	4.87	
EXT DRO >C28-C36	26.1	10.0	06/07/2021	ND					

Surrogate: 1-Chlorooctane 65.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 68.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/04/2021
 Reported: 06/07/2021
 Project Name: EAU D40
 Project Number: EAU D-40 CTB
 Project Location: NOT GIVEN

Sampling Date: 06/04/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CP 21 @ 3' (H211441-17)

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	06/07/2021	ND	1.94	97.1	2.00	5.41		
Toluene*	<0.050	0.050	06/07/2021	ND	1.98	99.0	2.00	7.13		
Ethylbenzene*	<0.050	0.050	06/07/2021	ND	1.93	96.4	2.00	6.92		
Total Xylenes*	<0.150	0.150	06/07/2021	ND	5.80	96.7	6.00	6.99		
Total BTEx	<0.300	0.300	06/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 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	1330	16.0	06/07/2021	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2021	ND	187	93.6	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/07/2021	ND	184	92.0	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	06/07/2021	ND					

Surrogate: 1-Chlorooctane 74.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/04/2021
 Reported: 06/07/2021
 Project Name: EAU D40
 Project Number: EAU D-40 CTB
 Project Location: NOT GIVEN

Sampling Date: 06/04/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CP 6 @ 4' (H211441-18)

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	06/07/2021	ND	1.94	97.1	2.00	5.41	
Toluene*	<0.050	0.050	06/07/2021	ND	1.98	99.0	2.00	7.13	
Ethylbenzene*	<0.050	0.050	06/07/2021	ND	1.93	96.4	2.00	6.92	
Total Xylenes*	<0.150	0.150	06/07/2021	ND	5.80	96.7	6.00	6.99	
Total BTEx	<0.300	0.300	06/07/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	06/07/2021	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/07/2021	ND	187	93.6	200	2.52	
DRO >C10-C28*	<10.0	10.0	06/07/2021	ND	184	92.0	200	4.87	
EXT DRO >C28-C36	<10.0	10.0	06/07/2021	ND					

Surrogate: 1-Chlorooctane 82.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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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: <u>Agua</u>		P.O. #:		BILL TO				ANALYSIS REQUEST			
Project Manager: <u>Jeff Brown</u>		Company:									
Address:		City: <u>Hobbs</u>		State: <u>NM</u>		Zip: <u>88240</u>		Attn:			
Phone #:		Fax #:		Address:		City:		State:		Zip:	
Project #:		Project Owner:		City:		State:		Zip:			
Project Location: <u>EAU D-40 CTB</u>		Phone #:		Fax #:							
Sampler Name: <u>Joe Quisenberry Jr.</u>		FOR LAB USE ONLY		PRESERV		SAMPLING					
Lab I.D.		Sample I.D.		MATRIX							
				GROUNDWATER							
				WASTEWATER							
				SOIL							
				OIL							
				SLUDGE							
				OTHER :							
				ACID/BASE:							
				ICE COOL							
				OTHER :							
				DATE		TIME					
				6/4		9:36		X		X	
				9/138		9:40		X		X	
				9/40		9:42		X		X	
				9/44		9:44		X		X	
				10:06		10:08		X		X	
				10:10		10:10		X		X	
				11:16		11:16		X		X	
				12:04		12:04		X		X	

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated theories or otherwise.

Relinquished By: [Signature] Date: 6/14/21 Received By: [Signature] Date: 9:35

Reinquired By: [Signature] Date: 9:35 Received By: [Signature] Date: 9:35

Delivered By: (Circle One) Observed Temp. °C 4.6 Sample Condition Cool ☒ Intact ☒ Checked BY: (Initials) TS

Sampler - UPS - Bus - Other: Corrected Temp. °C 4.6 Cool ☒ Intact ☒ No ☐ No ☐ No ☐ No

Turnaround Time: Standard ☒ Rush ☐ Bacteria (only) Sample Condition Cool ☒ Intact ☒ Observed Temp. °C 4.6 Corrected Temp. °C 4.6

Thermometer ID #113 Correction Factor None

REMARKS:

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

All Results are emailed. Please provide Email address:



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Capade						BILL TO						ANALYSIS REQUEST																	
Project Manager:						P.O. #:																							
Address:						Company:																							
City:						Attn:																							
State:						Address:																							
Zip:						City:																							
Phone #:						State:						Zip:																	
Fax #:						Phone #:																							
Project Owner:						Fax #:																							
Project Name:																													
Project Location:																													
Sampler Name:																													
FOR LAB USE ONLY																													
Lab I.D.						Sample I.D.																							
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or licensors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>						(G)RAB OR (C)OMP.						# CONTAINERS																	
						MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :						PRESERV. ACID/BASE: ICE / COOL OTHER :						SAMPLING DATE TIME BASE TIME											
						H211441						11 Suppl 19						21											
												12 Suppl 20						01											
												13 Suppl 21						01											
												14 Suppl 22						01											
						15 CP 32 @ Surface						01																	
						16 CP 33 @ Surface						01																	
						17 CP 21 @ 3'						01																	
						18 CP 6 @ 4'						01																	
Relinquished By:						Date: 8/4/21						Received By:																	
Time: 4:35						Date:						Time:																	
Relinquished By:						Date:						Received By:																	
Time:						Date:						Time:																	
Delivered By: (Circle One)						Observed Temp. °C 4.6						Corrected Temp. °C																	
Sample Condition						CHECKED BY: (Initials)						Turnaround Time:																	
Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>						Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>																	
Thermometer ID #113						Correction Factor None						Bacteria (only) Sample Condition																	
Corrected Temp. °C						Observed Temp. °C						Corrected Temp. °C																	
Remarks:						Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:						All Results are emailed. Please provide Email address:																	



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

June 10, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EMPIRE ABO UNIT D40 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/09/21 7:40.

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:	06/09/2021	Sampling Date:	06/08/2021
Reported:	06/10/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT D40 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	EMPIRE ABO UNIT D40 CTB	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: CP 32 (H211484-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2021	ND	2.11	106	2.00	2.18	
Toluene*	<0.050	0.050	06/09/2021	ND	2.08	104	2.00	2.32	
Ethylbenzene*	<0.050	0.050	06/09/2021	ND	2.02	101	2.00	2.83	
Total Xylenes*	<0.150	0.150	06/09/2021	ND	6.10	102	6.00	3.36	
Total BTX	<0.300	0.300	06/09/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	1390	16.0	06/09/2021	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	06/09/2021	ND	190	95.1	200	0.599	
DRO >C10-C28*	14.8	10.0	06/09/2021	ND	193	96.3	200	1.47	
EXT DRO >C28-C36	<10.0	10.0	06/09/2021	ND					

Surrogate: 1-Chlorooctane 86.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 88.2 % 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

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4



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

June 09, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EMPIRE ABO UNIT D40 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/09/21 7:15.

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.

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/09/2021	Sampling Date:	06/08/2021
Reported:	06/09/2021	Sampling Type:	Soil
Project Name:	EMPIRE ABO UNIT D40 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	EMPIRE ABO UNIT D40 CTB	Sample Received By:	Mike Snyder
Project Location:	LOCO HILLS, NM		

Sample ID: SWCP #21 (H211485-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	06/09/2021	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

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

Celey D. Keene, Lab Director/Quality Manager



RUSTH:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

















Incident ID	NRM2015736485
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: 6/10/2021

email: larry.baker@apachecorp.com

Telephone: 432-631-6982

OCD Only

Received by: Robert Hamlet

Date: 7/29/2021

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Robert Hamlet

Date: 7/29/2021

Printed Name: Robert Hamlet

Title: Environmental Specialist - Advanced

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 31467

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 31467
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NRM2015736485 EMPIRE ABO D40 BATTERY, thank you. This closure is approved.	7/29/2021