



303 Veterans Airpark Lane Midland, TX 79705

Closure Report

November 29, 2021

Re: NMGSAU # 012

Case: nAPP2111343684

On 4/18/2021 a release occurred due to a steel flow line failed. The release (GPS: 32.665486, -103.282816) is located west of Monument, New Mexico in unit letter A section 18 township 19S range 37E. A groundwater survey was conducted utilizing NMOSE wells of record. The nearest well of record suggest the groundwater depth below the release to be 54 feet below ground surface. A remediation plan was submitted an approved by OCD.

The release area was excavated to depths of 2 to 4 feet below ground surface. On 11/15/2021 final 5-point bottom and wall composite samples were collected not to exceed 200 square feet. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Laboratory results were above reclamation standards in the top four feet at several 2-foot bottom composite samples. Those area were advanced to a depth of 3 feet and 5-point bottom and wall composite samples were collected not to exceed 200 square feet and submitted to a commercial laboratory for analysis of TPH and BTEX. Laboratory results were above reclamation standards for TPH in the top four feet at B13. B13 was advanced to a depth of 4 feet. 5-point bottom and wall composite samples were collected and submitted to a commercial laboratory for analysis of TPH and BTEX. All excavated materials were hauled to an OCD approved disposal facility. The excavation was backfilled with clean imported topsoil to ground surface and contoured to the surrounding area. The disturbed area will be reseeded in accordance with the private surface landowner.

Apache Corporation as completed remediation to below table one standards and reclamation standards and respectful request closure of event nAPP211343684.

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

Submitted by;

Bruce Baker

Environmental Technician

larry.baker@apachecorp.com

Cell# 432-631-6982

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

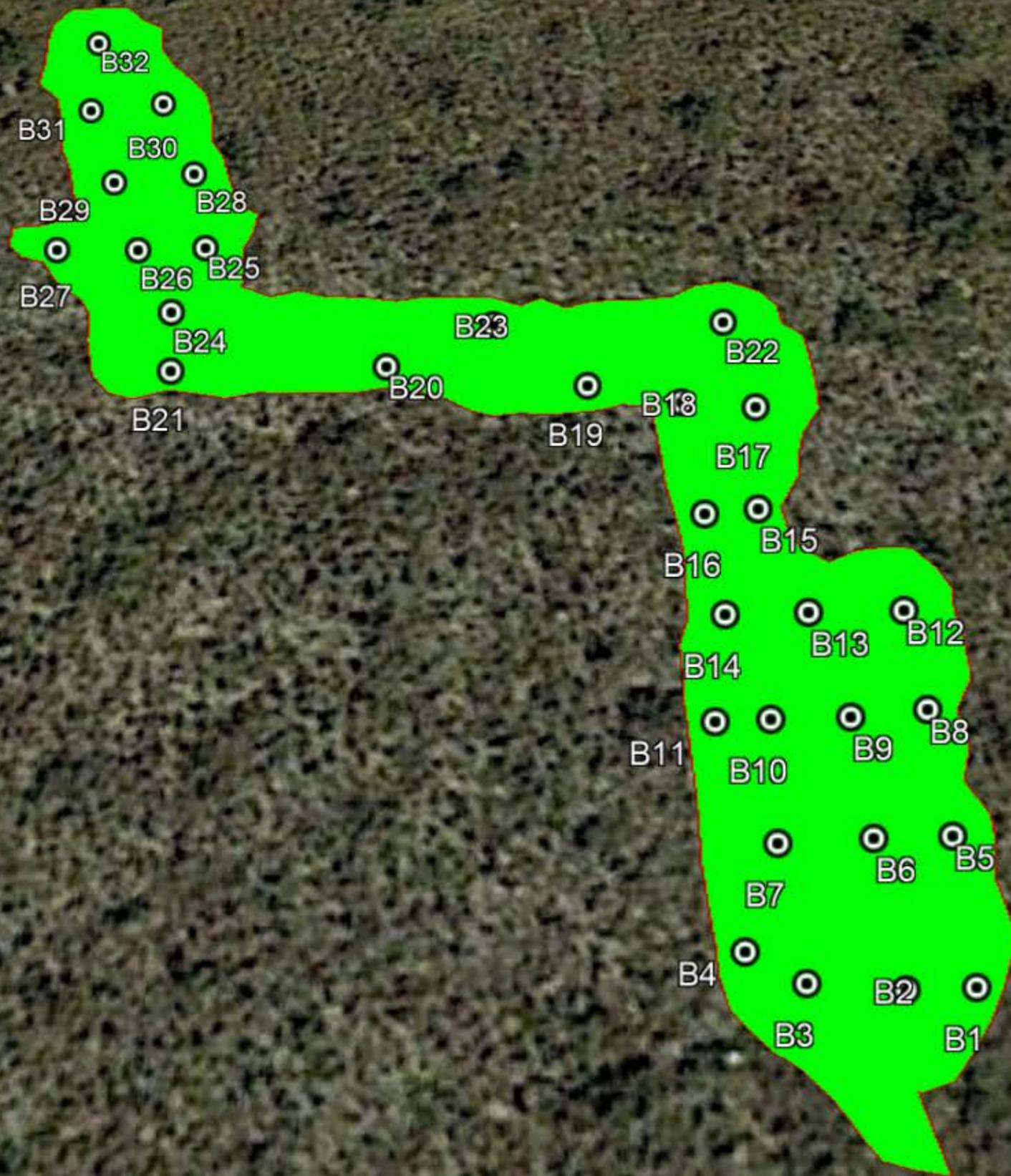
Printed Name: Larry Baker Title: Environmental Tech SR.
 Signature: *Larry Baker* Date: 11/29/2021
 email: larry.baker@apachecorp.com Telephone: 432-215-2284

OCD Only

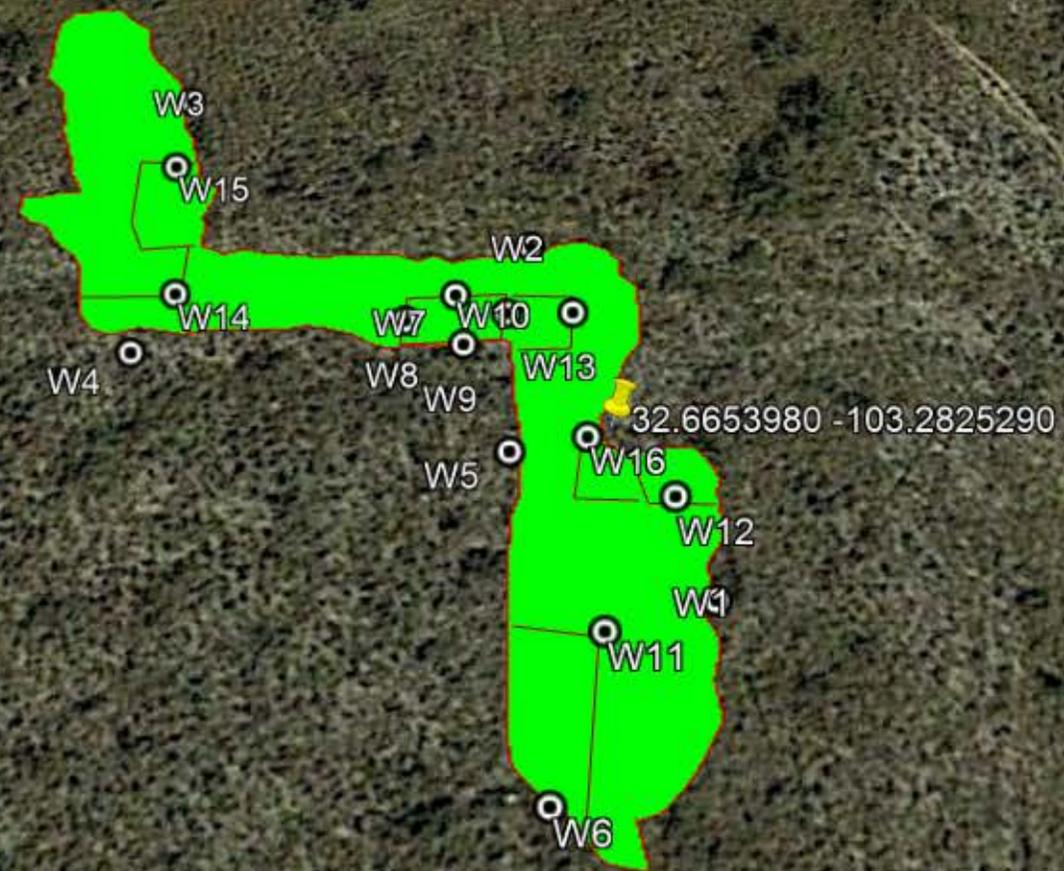
Received by: Chad Hensley Date: 12/27/2021

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

Closure Approved by: *Chad Hensley* Date: 12/27/2021
 Printed Name: Chad Hensley Title: Environmental Specialist Advanced



49 ft



Final Bottom Samples

Sample Date	Sample ID	Depth	Chloride Lab	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO
11/15/2021	B1	2'	272	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	335	81.2
11/20/2021	B1	3'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	43.4	<10.0
11/15/2021	B2	2'	304	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	135	27
11/20/2021	B2	3'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	31.6	<10.0
11/15/2021	B3	2'	176	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	13.3	<10.0
11/15/2021	B4	2'	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
11/15/2021	B5	2'	288	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	380	78.7
11/20/2021	B5	3'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	45.1	<10.0
11/15/2021	B6	2'	208	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	99.8	14.9
11/20/2021	B6	3'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	43.6	<10.0
11/15/2021	B7	2'	400	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	29.8	<10.0
11/15/2021	B8	2.5'	384	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	413	128
11/20/2021	B8	3'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	38.7	<10.0
11/15/2021	B9	2'	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	291	79.4
11/20/2021	B9	3'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	64.4	<10.0
11/15/2021	B10	2'	272	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	162	27.1
11/20/2021	B10	3'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	69.0	<10.0
11/15/2021	B11	2'	336	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	518	176
11/20/2021	B11	3'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	59.3	<10.0
11/15/2021	B12	2.5'	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	16.2	<10.0
11/15/2021	B13	2'	224	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	505	229
11/20/2021	B13	3'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	105	15.4
11/23/2021	B13	4'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
11/15/2021	B14	2'	272	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	358	120
11/20/2021	B14	3'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	65.7	<10.0
11/15/2021	B15	2.5'	208	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	582	286
11/20/2021	B15	3'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	56.7	<10.0
11/15/2021	B16	2.5'	256	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	191	30.7
11/20/2021	B16			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	57.2	<10.0
11/15/2021	B17	2.5'	256	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	274	42.1
11/20/2021	B17	3'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	45.4	<10.0

11/15/2021	B18	2.5'	96.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	33.7	<10.0
11/15/2021	B19	4'	80.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
11/15/2021	B20	2'	304	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	148	16.5
11/22/2021	B20	3'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	25.6	<10.0
11/15/2021	B21	2'	304	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	205	95.3
11/22/2021	B21	3'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	26.1	<10.0
11/15/2021	B22	2'	208	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	108	33.8
11/22/2021	B22	3'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	40.7	<10.0
11/15/2021	B23	2'	192	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	168	79.7
11/22/2021	B23	3'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	24.4	<10.0
11/15/2021	B24	2'	16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
11/15/2021	B25	2'	176	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	190	48.3
11/22/2021	B25	3'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	34.9	<10.0
11/15/2021	B26	2'	16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
11/15/2021	B27	2'	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
11/15/2021	B28	2'	224	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	140	35.1
11/22/2021	B28	3'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	75.1	<10.0
11/15/2021	B29	2.5'	16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	12.3	10.4
11/15/2021	B30	2.5'	112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	45.7	<10.0
11/15/2021	B31	2.5'	112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
11/15/2021	B32	2.5'	16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0

Final Wall Samples

Sample Date	Sample ID	Depth	Chloride Lab	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO
11/15/2021	W1	1-2'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
11/15/2021	W2	1-2'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
11/15/2021	W3	1-2'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
11/15/2021	W4	1-2'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
11/15/2021	W5	1-2'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
11/15/2021	W6	1-2'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
11/15/2021	W7	1-4'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	61.5	25.4
11/15/2021	W8	1-4'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	58.2	25.8
11/15/2021	W9	1-4'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	38.3	<10.0
11/15/2021	W10	1-4'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	58.0	24.7

11/20/2021	W11	2-3'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	57.1	<10.0
11/20/2021	W12	2-3'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	54.9	<10.0
11/20/2021	W13	2-3'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	71.6	12.2
11/22/2021	W14	3-4'	144	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	23.0	<10.0
11/22/2021	W15	3-4'	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	23.0	<10.0

Apache NMGSAU 12 Flowline

Wall

#'s	Feet	GPS	GPS
1	1-2'	32.6652932	-103.2824442
2	1-2'	32.6654928	-103.2825844
3	1-2'	32.6656218	-103.2828083
4	1-2'	32.6654448	-103.2828278
5	1-2'	32.6653824	-103.2825844
6	1-2'	32.6651891	-103.2825525
7	1-4'	32.6654294	-103.2826246
8	1-4'	32.6654493	-103.2826018
9	1-4'	32.6654649	-103.2826306
10	1-4'	32.6654505	-103.2826437
11	2-3'	32.6652777	-103.2825106
12	2-3'	32.6653539	-103.2824885
13	2-3'	32.6654674	-103.2825264
14	2-3'	32.6654790	-103.2828080
15	2-3'	32.6655693	-103.2828147
16	3-4'	32.6653980	-103.2825290

Bottoms

#'s	Feet	GPS	GPS
1	3	32.6651739	-103.2824677
2	3	32.6651837	-103.2824687
3	3	32.6652139	-103.2825492
4	2	32.6652450	-103.2825545
5	3	32.6652374	-103.2824774
6	3	32.6652168	-103.2824875
7	3	32.6651967	-103.2825495
8	3	32.6651555	-103.2825036
9	3	32.6652619	-103.2825539
10	3	32.6652594	-103.2825528

Bottoms		
#5	feet	GPS
11	3	32.6652732 -103.2825644
12	3'	32.6653026 -103.2824697
13	4	32.6653446 -103.2825183
14	3'	32.6653421 -103.2825569
15	3'	32.6654169 -103.2825508
16	3'	32.6654152 -103.2825820
17	3'	32.6653917 -103.2825451
18	2	32.6654505 -103.2825109
19	4'	32.6654521 -103.2825870
20	3'	32.6654750 -103.2826082
21	3'	32.6654711 -103.2828157
22	3'	32.6654979 -103.2825699
23	3'	32.6654891 -103.2826454
24	2'	32.6654919 -103.2828046
25	3'	32.6655594 -103.2827942
26	2'	32.6655385 -103.2828298
27	2'	32.6655532 -103.2828330
28	3'	32.6655955 -103.2827872
29	2'	32.6655984 -103.2828281
30	2'	32.6656169 -103.2828174
31	2'	32.6656353 -103.2828392
32	2	32.6656802 -103.2828576



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

November 17, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NMGSAU 12 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 11/15/21 16:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/17/2021	Sampling Type:	Soil
Project Name:	NMGS AU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 1 BGS 1-2 (H213255-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/16/2021	ND	2.02	101	2.00	4.96	
Toluene*	<0.050	0.050	11/16/2021	ND	1.98	98.8	2.00	4.00	
Ethylbenzene*	<0.050	0.050	11/16/2021	ND	1.94	97.1	2.00	5.10	
Total Xylenes*	<0.150	0.150	11/16/2021	ND	5.93	98.8	6.00	5.72	
Total BTEX	<0.300	0.300	11/16/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/17/2021	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	11/16/2021	ND	168	83.8	200	13.5	
DRO >C10-C28*	<10.0	10.0	11/16/2021	ND	163	81.6	200	15.9	
EXT DRO >C28-C36	<10.0	10.0	11/16/2021	ND					

Surrogate: 1-Chlorooctane 58.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 54.5 % 38.9-142

Cardinal Laboratories

* = Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/17/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 2 BGS 1-2 (H213255-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2021	ND	2.02	101	2.00	4.96	
Toluene*	<0.050	0.050	11/17/2021	ND	1.98	98.8	2.00	4.00	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.94	97.1	2.00	5.10	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	5.93	98.8	6.00	5.72	
Total BTEX	<0.300	0.300	11/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/17/2021	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	11/16/2021	ND	168	83.8	200	13.5	
DRO >C10-C28*	<10.0	10.0	11/16/2021	ND	163	81.6	200	15.9	
EXT DRO >C28-C36	<10.0	10.0	11/16/2021	ND					

Surrogate: 1-Chlorooctane 63.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 59.4 % 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:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/17/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 3 BGS 1-2 (H213255-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2021	ND	2.02	101	2.00	4.96	
Toluene*	<0.050	0.050	11/17/2021	ND	1.98	98.8	2.00	4.00	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.94	97.1	2.00	5.10	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	5.93	98.8	6.00	5.72	
Total BTEX	<0.300	0.300	11/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/17/2021	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	11/16/2021	ND	168	83.8	200	13.5	
DRO >C10-C28*	<10.0	10.0	11/16/2021	ND	163	81.6	200	15.9	
EXT DRO >C28-C36	<10.0	10.0	11/16/2021	ND					

Surrogate: 1-Chlorooctane 81.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 78.0 % 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:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/17/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 4 BGS 1-2 (H213255-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2021	ND	2.02	101	2.00	4.96		
Toluene*	<0.050	0.050	11/17/2021	ND	1.98	98.8	2.00	4.00		
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.94	97.1	2.00	5.10		
Total Xylenes*	<0.150	0.150	11/17/2021	ND	5.93	98.8	6.00	5.72		
Total BTEX	<0.300	0.300	11/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/17/2021	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	11/16/2021	ND	168	83.8	200	13.5		
DRO >C10-C28*	<10.0	10.0	11/16/2021	ND	163	81.6	200	15.9		
EXT DRO >C28-C36	<10.0	10.0	11/16/2021	ND						

Surrogate: 1-Chlorooctane 78.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 74.8 % 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:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/17/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 5 BGS 1-2 (H213255-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2021	ND	2.02	101	2.00	4.96		
Toluene*	<0.050	0.050	11/17/2021	ND	1.98	98.8	2.00	4.00		
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.94	97.1	2.00	5.10		
Total Xylenes*	<0.150	0.150	11/17/2021	ND	5.93	98.8	6.00	5.72		
Total BTEX	<0.300	0.300	11/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/17/2021	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	11/16/2021	ND	168	83.8	200	13.5		
DRO >C10-C28*	<10.0	10.0	11/16/2021	ND	163	81.6	200	15.9		
EXT DRO >C28-C36	<10.0	10.0	11/16/2021	ND						

Surrogate: 1-Chlorooctane 88.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.5 % 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:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/17/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 6 BGS 1-2 (H213255-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2021	ND	2.02	101	2.00	4.96		
Toluene*	<0.050	0.050	11/17/2021	ND	1.98	98.8	2.00	4.00		
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.94	97.1	2.00	5.10		
Total Xylenes*	<0.150	0.150	11/17/2021	ND	5.93	98.8	6.00	5.72		
Total BTEX	<0.300	0.300	11/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/17/2021	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	11/16/2021	ND	168	83.8	200	13.5		
DRO >C10-C28*	<10.0	10.0	11/16/2021	ND	163	81.6	200	15.9		
EXT DRO >C28-C36	<10.0	10.0	11/16/2021	ND						

Surrogate: 1-Chlorooctane 81.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 77.1 % 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:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/17/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 7 BGS 1-4 (H213255-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2021	ND	2.02	101	2.00	4.96		
Toluene*	<0.050	0.050	11/17/2021	ND	1.98	98.8	2.00	4.00		
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.94	97.1	2.00	5.10		
Total Xylenes*	<0.150	0.150	11/17/2021	ND	5.93	98.8	6.00	5.72		
Total BTEX	<0.300	0.300	11/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/17/2021	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	11/16/2021	ND	168	83.8	200	13.5		
DRO >C10-C28*	61.5	10.0	11/16/2021	ND	163	81.6	200	15.9		
EXT DRO >C28-C36	25.4	10.0	11/16/2021	ND						

Surrogate: 1-Chlorooctane 81.4 % 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
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/17/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 8 BGS 1-4 (H213255-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2021	ND	2.02	101	2.00	4.96	
Toluene*	<0.050	0.050	11/17/2021	ND	1.98	98.8	2.00	4.00	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.94	97.1	2.00	5.10	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	5.93	98.8	6.00	5.72	
Total BTEX	<0.300	0.300	11/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/17/2021	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	11/17/2021	ND	168	83.8	200	13.5	
DRO >C10-C28*	58.2	10.0	11/17/2021	ND	163	81.6	200	15.9	
EXT DRO >C28-C36	24.8	10.0	11/17/2021	ND					

Surrogate: 1-Chlorooctane 71.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.6 % 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:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/17/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 9 BGS 1-4 (H213255-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2021	ND	2.02	101	2.00	4.96	
Toluene*	<0.050	0.050	11/17/2021	ND	1.98	98.8	2.00	4.00	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.94	97.1	2.00	5.10	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	5.93	98.8	6.00	5.72	
Total BTEX	<0.300	0.300	11/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/17/2021	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	11/17/2021	ND	168	83.8	200	13.5	
DRO >C10-C28*	38.3	10.0	11/17/2021	ND	163	81.6	200	15.9	
EXT DRO >C28-C36	<10.0	10.0	11/17/2021	ND					

Surrogate: 1-Chlorooctane 75.7 % 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
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/17/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 10 BGS 1-4 (H213255-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2021	ND	2.02	101	2.00	4.96	
Toluene*	<0.050	0.050	11/17/2021	ND	1.98	98.8	2.00	4.00	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.94	97.1	2.00	5.10	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	5.93	98.8	6.00	5.72	
Total BTEX	<0.300	0.300	11/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/17/2021	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	11/17/2021	ND	168	83.8	200	13.5	
DRO >C10-C28*	58.0	10.0	11/17/2021	ND	163	81.6	200	15.9	
EXT DRO >C28-C36	24.7	10.0	11/17/2021	ND					

Surrogate: 1-Chlorooctane 75.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 73.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- QR-04 The RPD for the BS/BSD was outside of historical limits.
BS2 Blank spike recovery below laboratory acceptance criteria. Results for analyte potentially biased low.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Apacell</u> Project Manager: <u>Bruce Selzer</u>		P.O. #: Company:		BILL TO		ANALYSIS REQUEST	
Address: City: <u>Hobbs</u>		State: <u>NM</u> Zip: <u>88240</u>		Attn:			
Phone #:		Fax #:		Address:			
Project #:		Project Owner:		City:			
Project Name:		State:		Zip:			
Project Location: <u>WUSGAR 12 Cross Line</u>		Phone #:		Fax #:			
Sampler Name: <u>See Certificate #1.</u>		FOR LAB USE ONLY					
Lab I.D. <u>H213255</u>		Sample I.D.					

ID	W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	DATE	TIME	MATRIX		PRESERV.		SAMPLING		
													(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE
											11/15	9:50	X	X	X	X	X	X	X
												2:52	X	X	X	X	X	X	X
												2:54	X	X	X	X	X	X	X
												2:56	X	X	X	X	X	X	X
												2:58	X	X	X	X	X	X	X
												3:00	X	X	X	X	X	X	X
												3:22	X	X	X	X	X	X	X
												3:24	X	X	X	X	X	X	X
												3:26	X	X	X	X	X	X	X

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Relinquished By: [Signature] Date: 11-15 Received By: [Signature]
 Time: 11:45 Date: 11-15 Received By: [Signature]
 Relinquished By: [Signature] Date: 11-15 Received By: [Signature]

Delivered By: (Circle One) Observed Temp. °C 0.5 Sample Condition Cool Intact
 Sampler - UPS - Bus - Other: Corrected Temp. °C 0.0 Yes No Yes No

Turnaround Time: Standard Rush Bacteria (only) Sample Condition Cool Intact Yes No Yes No No No

Thermometer ID #113 Correction Factor -0.5°C

Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address:
 REMARKS:



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

November 18, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NMGSAU 12 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 11/15/21 16:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/18/2021	Sampling Type:	Soil
Project Name:	NMGS AU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 1 @ 2' (H213256-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2021	ND	2.02	101	2.00	4.96	
Toluene*	<0.050	0.050	11/17/2021	ND	1.98	98.8	2.00	4.00	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.94	97.1	2.00	5.10	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	5.93	98.8	6.00	5.72	
Total BTEX	<0.300	0.300	11/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 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	272	16.0	11/17/2021	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	11/17/2021	ND	197	98.6	200	4.40	
DRO >C10-C28*	335	10.0	11/17/2021	ND	205	102	200	2.36	
EXT DRO >C28-C36	81.2	10.0	11/17/2021	ND					

Surrogate: 1-Chlorooctane 88.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 95.4 % 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:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/18/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 2 @ 2' (H213256-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2021	ND	2.02	101	2.00	4.96	
Toluene*	<0.050	0.050	11/17/2021	ND	1.98	98.8	2.00	4.00	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.94	97.1	2.00	5.10	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	5.93	98.8	6.00	5.72	
Total BTEX	<0.300	0.300	11/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 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	304	16.0	11/17/2021	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	11/17/2021	ND	197	98.6	200	4.40	
DRO >C10-C28*	135	10.0	11/17/2021	ND	205	102	200	2.36	
EXT DRO >C28-C36	26.6	10.0	11/17/2021	ND					

Surrogate: 1-Chlorooctane 81.7 % 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
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/18/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 3 @ 2' (H213256-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2021	ND	2.02	101	2.00	4.96	
Toluene*	<0.050	0.050	11/17/2021	ND	1.98	98.8	2.00	4.00	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.94	97.1	2.00	5.10	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	5.93	98.8	6.00	5.72	
Total BTEX	<0.300	0.300	11/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 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	176	16.0	11/17/2021	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	11/17/2021	ND	197	98.6	200	4.40	
DRO >C10-C28*	13.3	10.0	11/17/2021	ND	205	102	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	11/17/2021	ND					

Surrogate: 1-Chlorooctane 86.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.7 % 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:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/18/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 4 @ 2' (H213256-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2021	ND	2.02	101	2.00	4.96	
Toluene*	<0.050	0.050	11/17/2021	ND	1.98	98.8	2.00	4.00	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.94	97.1	2.00	5.10	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	5.93	98.8	6.00	5.72	
Total BTEX	<0.300	0.300	11/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 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	240	16.0	11/17/2021	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	11/17/2021	ND	197	98.6	200	4.40	
DRO >C10-C28*	<10.0	10.0	11/17/2021	ND	205	102	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	11/17/2021	ND					

Surrogate: 1-Chlorooctane 83.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.0 % 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:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/18/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 5 @ 2' 6" (H213256-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2021	ND	2.02	101	2.00	4.96	
Toluene*	<0.050	0.050	11/17/2021	ND	1.98	98.8	2.00	4.00	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.94	97.1	2.00	5.10	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	5.93	98.8	6.00	5.72	
Total BTEX	<0.300	0.300	11/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 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	288	16.0	11/17/2021	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	11/17/2021	ND	197	98.6	200	4.40	
DRO >C10-C28*	380	10.0	11/17/2021	ND	205	102	200	2.36	
EXT DRO >C28-C36	78.7	10.0	11/17/2021	ND					

Surrogate: 1-Chlorooctane 85.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.3 % 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:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/18/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 6 @ 2' (H213256-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2021	ND	2.02	101	2.00	4.96	
Toluene*	<0.050	0.050	11/17/2021	ND	1.98	98.8	2.00	4.00	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.94	97.1	2.00	5.10	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	5.93	98.8	6.00	5.72	
Total BTEX	<0.300	0.300	11/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 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	208	16.0	11/17/2021	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	11/17/2021	ND	197	98.6	200	4.40	
DRO >C10-C28*	99.8	10.0	11/17/2021	ND	205	102	200	2.36	
EXT DRO >C28-C36	14.9	10.0	11/17/2021	ND					

Surrogate: 1-Chlorooctane 74.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.2 % 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:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/18/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 7 @ 2' (H213256-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2021	ND	2.02	101	2.00	4.96		
Toluene*	<0.050	0.050	11/17/2021	ND	1.98	98.8	2.00	4.00		
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.94	97.1	2.00	5.10		
Total Xylenes*	<0.150	0.150	11/17/2021	ND	5.93	98.8	6.00	5.72		
Total BTEX	<0.300	0.300	11/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 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	400	16.0	11/17/2021	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	11/17/2021	ND	197	98.6	200	4.40		
DRO >C10-C28*	29.8	10.0	11/17/2021	ND	205	102	200	2.36		
EXT DRO >C28-C36	<10.0	10.0	11/17/2021	ND						

Surrogate: 1-Chlorooctane 76.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.6 % 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:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/18/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 8 @ 2' 6" (H213256-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2021	ND	2.02	101	2.00	4.96	
Toluene*	<0.050	0.050	11/17/2021	ND	1.98	98.8	2.00	4.00	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.94	97.1	2.00	5.10	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	5.93	98.8	6.00	5.72	
Total BTEX	<0.300	0.300	11/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 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	384	16.0	11/17/2021	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	11/17/2021	ND	197	98.6	200	4.40	
DRO >C10-C28*	413	10.0	11/17/2021	ND	205	102	200	2.36	
EXT DRO >C28-C36	128	10.0	11/17/2021	ND					

Surrogate: 1-Chlorooctane 90.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 99.1 % 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:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/18/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 9 @ 2' (H213256-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2021	ND	2.02	101	2.00	4.96	
Toluene*	<0.050	0.050	11/17/2021	ND	1.98	98.8	2.00	4.00	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.94	97.1	2.00	5.10	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	5.93	98.8	6.00	5.72	
Total BTEX	<0.300	0.300	11/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 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	240	16.0	11/17/2021	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	11/17/2021	ND	197	98.6	200	4.40	
DRO >C10-C28*	291	10.0	11/17/2021	ND	205	102	200	2.36	
EXT DRO >C28-C36	79.4	10.0	11/17/2021	ND					

Surrogate: 1-Chlorooctane 76.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.0 % 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:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/18/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 10 @ 2' (H213256-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2021	ND	2.02	101	2.00	4.96	
Toluene*	<0.050	0.050	11/17/2021	ND	1.98	98.8	2.00	4.00	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.94	97.1	2.00	5.10	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	5.93	98.8	6.00	5.72	
Total BTEX	<0.300	0.300	11/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 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	272	16.0	11/17/2021	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	11/17/2021	ND	197	98.6	200	4.40	
DRO >C10-C28*	162	10.0	11/17/2021	ND	205	102	200	2.36	
EXT DRO >C28-C36	27.1	10.0	11/17/2021	ND					

Surrogate: 1-Chlorooctane 70.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.9 % 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:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/18/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 11 @ 2' (H213256-11)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2021	ND	2.11	106	2.00	1.59	
Toluene*	<0.050	0.050	11/17/2021	ND	2.00	100	2.00	1.51	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.99	99.4	2.00	1.63	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.08	101	6.00	1.68	
Total BTEX	<0.300	0.300	11/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	336	16.0	11/17/2021	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	11/17/2021	ND	197	98.6	200	4.40	
DRO >C10-C28*	518	10.0	11/17/2021	ND	205	102	200	2.36	
EXT DRO >C28-C36	176	10.0	11/17/2021	ND					

Surrogate: 1-Chlorooctane 77.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.7 % 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:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/18/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 12 @ 2' 6" (H213256-12)

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	11/17/2021	ND	2.11	106	2.00	1.59	
Toluene*	<0.050	0.050	11/17/2021	ND	2.00	100	2.00	1.51	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.99	99.4	2.00	1.63	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.08	101	6.00	1.68	
Total BTEX	<0.300	0.300	11/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 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	240	16.0	11/17/2021	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	11/17/2021	ND	197	98.6	200	4.40	
DRO >C10-C28*	16.2	10.0	11/17/2021	ND	205	102	200	2.36	
EXT DRO >C28-C36	<10.0	10.0	11/17/2021	ND					

Surrogate: 1-Chlorooctane 75.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 73.0 % 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:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/18/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 13 @ 2' (H213256-13)

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	11/17/2021	ND	2.11	106	2.00	1.59	
Toluene*	<0.050	0.050	11/17/2021	ND	2.00	100	2.00	1.51	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.99	99.4	2.00	1.63	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.08	101	6.00	1.68	
Total BTEX	<0.300	0.300	11/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 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	224	16.0	11/17/2021	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	11/17/2021	ND	197	98.6	200	4.40	
DRO >C10-C28*	505	10.0	11/17/2021	ND	205	102	200	2.36	
EXT DRO >C28-C36	229	10.0	11/17/2021	ND					

Surrogate: 1-Chlorooctane 86.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.6 % 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:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/18/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 14 @ 2' (H213256-14)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2021	ND	2.11	106	2.00	1.59	
Toluene*	<0.050	0.050	11/17/2021	ND	2.00	100	2.00	1.51	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.99	99.4	2.00	1.63	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.08	101	6.00	1.68	
Total BTEX	<0.300	0.300	11/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 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	11/17/2021	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	11/17/2021	ND	197	98.6	200	4.40	
DRO >C10-C28*	358	10.0	11/17/2021	ND	205	102	200	2.36	
EXT DRO >C28-C36	120	10.0	11/17/2021	ND					

Surrogate: 1-Chlorooctane 75.0 % 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:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/18/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 15 @ 2' 6" (H213256-15)

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	11/17/2021	ND	2.11	106	2.00	1.59	
Toluene*	<0.050	0.050	11/17/2021	ND	2.00	100	2.00	1.51	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.99	99.4	2.00	1.63	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.08	101	6.00	1.68	
Total BTEX	<0.300	0.300	11/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 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	208	16.0	11/17/2021	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	11/17/2021	ND	197	98.6	200	4.40	
DRO >C10-C28*	582	10.0	11/17/2021	ND	205	102	200	2.36	
EXT DRO >C28-C36	286	10.0	11/17/2021	ND					

Surrogate: 1-Chlorooctane 77.3 % 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:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/18/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 16 @ 2' 6" (H213256-16)

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	11/17/2021	ND	2.11	106	2.00	1.59		
Toluene*	<0.050	0.050	11/17/2021	ND	2.00	100	2.00	1.51		
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.99	99.4	2.00	1.63		
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.08	101	6.00	1.68		
Total BTEX	<0.300	0.300	11/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 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	256	16.0	11/17/2021	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	11/18/2021	ND	211	105	200	0.294		
DRO >C10-C28*	191	10.0	11/18/2021	ND	196	97.8	200	1.66		
EXT DRO >C28-C36	30.7	10.0	11/18/2021	ND						

Surrogate: 1-Chlorooctane 62.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 66.9 % 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:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/18/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 17 @ 2' 6" (H213256-17)

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	11/17/2021	ND	2.11	106	2.00	1.59	
Toluene*	<0.050	0.050	11/17/2021	ND	2.00	100	2.00	1.51	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.99	99.4	2.00	1.63	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.08	101	6.00	1.68	
Total BTEX	<0.300	0.300	11/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 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	256	16.0	11/17/2021	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	11/18/2021	ND	211	105	200	0.294	
DRO >C10-C28*	274	10.0	11/18/2021	ND	196	97.8	200	1.66	
EXT DRO >C28-C36	42.1	10.0	11/18/2021	ND					

Surrogate: 1-Chlorooctane 73.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 79.0 % 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:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/18/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 18 @ 2' 6" (H213256-18)

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	11/17/2021	ND	2.11	106	2.00	1.59	
Toluene*	<0.050	0.050	11/17/2021	ND	2.00	100	2.00	1.51	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.99	99.4	2.00	1.63	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.08	101	6.00	1.68	
Total BTEX	<0.300	0.300	11/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 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	96.0	16.0	11/17/2021	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	11/17/2021	ND	211	105	200	0.294	
DRO >C10-C28*	33.7	10.0	11/17/2021	ND	196	97.8	200	1.66	
EXT DRO >C28-C36	<10.0	10.0	11/17/2021	ND					

Surrogate: 1-Chlorooctane 73.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 74.2 % 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:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/18/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 19 @ 4' (H213256-19)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2021	ND	2.11	106	2.00	1.59		
Toluene*	<0.050	0.050	11/17/2021	ND	2.00	100	2.00	1.51		
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.99	99.4	2.00	1.63		
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.08	101	6.00	1.68		
Total BTEX	<0.300	0.300	11/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 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	80.0	16.0	11/17/2021	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	11/17/2021	ND	211	105	200	0.294		
DRO >C10-C28*	<10.0	10.0	11/17/2021	ND	196	97.8	200	1.66		
EXT DRO >C28-C36	<10.0	10.0	11/17/2021	ND						

Surrogate: 1-Chlorooctane 71.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 71.0 % 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:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/18/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 20 @ 2' (H213256-20)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2021	ND	2.11	106	2.00	1.59		
Toluene*	<0.050	0.050	11/17/2021	ND	2.00	100	2.00	1.51		
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.99	99.4	2.00	1.63		
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.08	101	6.00	1.68		
Total BTEX	<0.300	0.300	11/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 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	304	16.0	11/17/2021	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	11/17/2021	ND	211	105	200	0.294		
DRO >C10-C28*	148	10.0	11/17/2021	ND	196	97.8	200	1.66		
EXT DRO >C28-C36	16.5	10.0	11/17/2021	ND						

Surrogate: 1-Chlorooctane 104 % 44.3-133

Surrogate: 1-Chlorooctadecane 109 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/18/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 21 (H213256-21)

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	11/17/2021	ND	2.11	106	2.00	1.59	
Toluene*	<0.050	0.050	11/17/2021	ND	2.00	100	2.00	1.51	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.99	99.4	2.00	1.63	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.08	101	6.00	1.68	
Total BTEX	<0.300	0.300	11/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 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	304	16.0	11/17/2021	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	11/17/2021	ND	252	126	200	9.92	
DRO >C10-C28*	205	10.0	11/17/2021	ND	240	120	200	10.2	QM-07, QR-03
EXT DRO >C28-C36	95.3	10.0	11/17/2021	ND					

Surrogate: 1-Chlorooctane 119 % 44.3-133

Surrogate: 1-Chlorooctadecane 117 % 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:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/18/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 22 (H213256-22)

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	11/17/2021	ND	2.11	106	2.00	1.59	
Toluene*	<0.050	0.050	11/17/2021	ND	2.00	100	2.00	1.51	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.99	99.4	2.00	1.63	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.08	101	6.00	1.68	
Total BTEX	<0.300	0.300	11/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 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	208	16.0	11/17/2021	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	11/17/2021	ND	252	126	200	9.92	
DRO >C10-C28*	108	10.0	11/17/2021	ND	240	120	200	10.2	
EXT DRO >C28-C36	33.8	10.0	11/17/2021	ND					

Surrogate: 1-Chlorooctane 126 % 44.3-133

Surrogate: 1-Chlorooctadecane 122 % 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:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/18/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 23 (H213256-23)

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	11/17/2021	ND	2.11	106	2.00	1.59	
Toluene*	<0.050	0.050	11/17/2021	ND	2.00	100	2.00	1.51	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.99	99.4	2.00	1.63	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.08	101	6.00	1.68	
Total BTEX	<0.300	0.300	11/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 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	192	16.0	11/17/2021	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	11/17/2021	ND	252	126	200	9.92	
DRO >C10-C28*	168	10.0	11/17/2021	ND	240	120	200	10.2	
EXT DRO >C28-C36	79.7	10.0	11/17/2021	ND					

Surrogate: 1-Chlorooctane 119 % 44.3-133

Surrogate: 1-Chlorooctadecane 118 % 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:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/18/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 24 @ 2' (H213256-24)

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	11/17/2021	ND	2.11	106	2.00	1.59	
Toluene*	<0.050	0.050	11/17/2021	ND	2.00	100	2.00	1.51	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.99	99.4	2.00	1.63	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.08	101	6.00	1.68	
Total BTEX	<0.300	0.300	11/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/17/2021	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	11/17/2021	ND	252	126	200	9.92	
DRO >C10-C28*	<10.0	10.0	11/17/2021	ND	240	120	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	11/17/2021	ND					

Surrogate: 1-Chlorooctane 119 % 44.3-133

Surrogate: 1-Chlorooctadecane 111 % 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:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/18/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 25 @ 2' (H213256-25)

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	11/17/2021	ND	2.11	106	2.00	1.59	
Toluene*	<0.050	0.050	11/17/2021	ND	2.00	100	2.00	1.51	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.99	99.4	2.00	1.63	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.08	101	6.00	1.68	
Total BTEX	<0.300	0.300	11/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 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	176	16.0	11/17/2021	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	11/17/2021	ND	252	126	200	9.92	
DRO >C10-C28*	190	10.0	11/17/2021	ND	240	120	200	10.2	
EXT DRO >C28-C36	48.3	10.0	11/17/2021	ND					

Surrogate: 1-Chlorooctane 110 % 44.3-133

Surrogate: 1-Chlorooctadecane 111 % 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:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/18/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 26 @ 2' (H213256-26)

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	11/17/2021	ND	2.11	106	2.00	1.59		
Toluene*	<0.050	0.050	11/17/2021	ND	2.00	100	2.00	1.51		
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.99	99.4	2.00	1.63		
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.08	101	6.00	1.68		
Total BTEX	<0.300	0.300	11/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/17/2021	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	11/17/2021	ND	252	126	200	9.92		
DRO >C10-C28*	<10.0	10.0	11/17/2021	ND	240	120	200	10.2		
EXT DRO >C28-C36	<10.0	10.0	11/17/2021	ND						

Surrogate: 1-Chlorooctane 106 % 44.3-133

Surrogate: 1-Chlorooctadecane 103 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/18/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 27 @ 2' (H213256-27)

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	11/17/2021	ND	2.11	106	2.00	1.59	
Toluene*	<0.050	0.050	11/17/2021	ND	2.00	100	2.00	1.51	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.99	99.4	2.00	1.63	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.08	101	6.00	1.68	
Total BTEX	<0.300	0.300	11/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 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	240	16.0	11/17/2021	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	11/17/2021	ND	252	126	200	9.92	
DRO >C10-C28*	<10.0	10.0	11/17/2021	ND	240	120	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	11/17/2021	ND					

Surrogate: 1-Chlorooctane 115 % 44.3-133

Surrogate: 1-Chlorooctadecane 109 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/18/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 28 @ 2' (H213256-28)

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	11/17/2021	ND	2.11	106	2.00	1.59		
Toluene*	<0.050	0.050	11/17/2021	ND	2.00	100	2.00	1.51		
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.99	99.4	2.00	1.63		
Total Xylenes*	<0.150	0.150	11/17/2021	ND	6.08	101	6.00	1.68		
Total BTEX	<0.300	0.300	11/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 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	224	16.0	11/17/2021	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	11/17/2021	ND	252	126	200	9.92		
DRO >C10-C28*	140	10.0	11/17/2021	ND	240	120	200	10.2		
EXT DRO >C28-C36	35.1	10.0	11/17/2021	ND						

Surrogate: 1-Chlorooctane 114 % 44.3-133

Surrogate: 1-Chlorooctadecane 113 % 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:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/18/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 29 @ 2' 6" (H213256-29)

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	11/17/2021	ND	1.97	98.3	2.00	3.24	
Toluene*	<0.050	0.050	11/17/2021	ND	1.89	94.5	2.00	2.66	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.86	92.9	2.00	2.42	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	5.62	93.7	6.00	2.33	
Total BTEX	<0.300	0.300	11/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/17/2021	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	11/17/2021	ND	252	126	200	9.92	
DRO >C10-C28*	12.3	10.0	11/17/2021	ND	240	120	200	10.2	
EXT DRO >C28-C36	10.4	10.0	11/17/2021	ND					

Surrogate: 1-Chlorooctane 109 % 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:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/18/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 30 @ 2' 6" (H213256-30)

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	11/17/2021	ND	1.97	98.3	2.00	3.24	
Toluene*	<0.050	0.050	11/17/2021	ND	1.89	94.5	2.00	2.66	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.86	92.9	2.00	2.42	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	5.62	93.7	6.00	2.33	
Total BTEX	<0.300	0.300	11/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 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	112	16.0	11/17/2021	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	11/17/2021	ND	252	126	200	9.92	
DRO >C10-C28*	45.7	10.0	11/17/2021	ND	240	120	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	11/17/2021	ND					

Surrogate: 1-Chlorooctane 117 % 44.3-133

Surrogate: 1-Chlorooctadecane 116 % 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:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/18/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 31 @ 2' 6" (H213256-31)

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	11/16/2021	ND	2.11	106	2.00	5.74		
Toluene*	<0.050	0.050	11/16/2021	ND	2.02	101	2.00	6.21		
Ethylbenzene*	<0.050	0.050	11/16/2021	ND	2.00	100	2.00	6.33		
Total Xylenes*	<0.150	0.150	11/16/2021	ND	6.12	102	6.00	6.44		
Total BTEX	<0.300	0.300	11/16/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 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	112	16.0	11/17/2021	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	11/17/2021	ND	252	126	200	9.92		
DRO >C10-C28*	<10.0	10.0	11/17/2021	ND	240	120	200	10.2		
EXT DRO >C28-C36	<10.0	10.0	11/17/2021	ND						

Surrogate: 1-Chlorooctane 88.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 86.7 % 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:	11/15/2021	Sampling Date:	11/15/2021
Reported:	11/18/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 32 @ 2' 6" (H213256-32)

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	11/17/2021	ND	1.97	98.3	2.00	3.24	
Toluene*	<0.050	0.050	11/17/2021	ND	1.89	94.5	2.00	2.66	
Ethylbenzene*	<0.050	0.050	11/17/2021	ND	1.86	92.9	2.00	2.42	
Total Xylenes*	<0.150	0.150	11/17/2021	ND	5.62	93.7	6.00	2.33	
Total BTEX	<0.300	0.300	11/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/17/2021	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	11/17/2021	ND	252	126	200	9.92	
DRO >C10-C28*	<10.0	10.0	11/17/2021	ND	240	120	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	11/17/2021	ND					

Surrogate: 1-Chlorooctane 109 % 44.3-133

Surrogate: 1-Chlorooctadecane 106 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Apache</u> Project Manager: <u>Bruce Baker</u>		P.O. #: _____ Company: _____	
Address: _____ City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>		Attn: _____ Address: _____ City: _____ State: _____ Zip: _____	
Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____		State: _____ Zip: _____ Project Location: <u>Western 12' Stew line</u>	
Project Name: _____ Project Location: _____		Phone #: _____ Fax #: _____	
Sampler Name: <u>Joe Gassner, Jr.</u>		P.O. #: _____	
FOR LAB USE ONLY Lab I.D. <u>H213AST</u> Sample I.D. _____		P.O. #: _____	
(G)RAB OR (C)OMP. # CONTAINERS MATRIX: GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER: _____ PRESERV: (C) / COOL, OTHER: _____		DATE: _____ TIME: _____	
1 B1 @ 2' 11-15 9:52 X X C1 EXT TPH BTEX 2 B2 @ 2' 9:54 X X 3 B3 @ 2' 9:56 X X 4 B4 @ 2' 10:00 X X 5 B5 @ 2' 10:02 X X 6 B6 @ 2' 10:04 X X 7 B7 @ 2' 10:06 X X 8 B8 @ 2' 10:08 X X 9 B9 @ 2' 10:10 X X 10 B10 @ 2' 10:10 X X		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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Relinquished By: <u>Joe Gassner, Jr.</u> Date: <u>11-15</u> Time: _____ Received By: <u>Yolanda Clark</u> Date: _____ Time: _____		Turnaround Time: _____ Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #113 Bacteria (only) Sample Condition <input checked="" type="checkbox"/> Correction Factor -0.5°C Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C Corrected Temp. °C	
Delivered By: (Circle One) Observed Temp. °C <u>0.5?</u> Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> Sampler - UPS - Bus - Other: Corrected Temp. °C <u>0.0</u> CHECKED BY: (Initials) <u>YO.</u>		REMARKS: _____	

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Apurba P.O. #:
 Project Manager: Bruce Baker Company:
 Address: City: Hobbs State: NM Zip: 88240
 Phone #: 505-393-2326 Fax #: 505-393-2476
 Project #: Project Owner:
 Project Name: State: NM Zip:
 Project Location: ULCSTAR 12 Brown line
 Sampler Name: Don Quisenberry Phone #:
 FOR LAB USE ONLY Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		DATE	TIME	C1	EXT TPH	BTEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	COOL					
11	B11 @2'	<input checked="" type="checkbox"/>	1									11-15	10:12	X	X	X
12	B12 @2' 6"		1									11-15	10:14	X	X	X
13	B13 @2'		1									11-15	2:40	X	X	X
14	B14 @2'		1									11-15	3:42	X	X	X
15	B15 @2' 6"		1									11-15	3:44	X	X	X
16	B16 @2' 6"		1									11-15	3:46	X	X	X
17	B17 @2' 6"		1									11-15	3:48	X	X	X
18	B18 @2' 6"		1									11-15	3:50	X	X	X
19	B19 @4'		1									11-15	10:28	X	X	X
20	B20 @2'		1									11-15	10:32	X	X	X

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Relinquished By: [Signature] Date: 11-15 Time: 11:45
 Received By: [Signature] Date: 11-15 Time: 11:45
 Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address:
 REMARKS:

Delivered By: (Circle One) Observed Temp. °C 0.5 Sample Condition Intact Cool Yes No Yes No
 Sampler - UPS - Bus - Other: Corrected Temp. °C 0.0 CHECKED BY: (Initials) AS
 Turnaround Time: Standard Bacteria (only) Sample Condition Bacteria Intact Cool Intact Observed Temp. °C Yes No Yes No No No
 Thermometer ID #113 Corrected Temp. °C
 Correction Factor -0.5°C



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apacise P.O. #:
 Project Manager: Bruce Baker Company:
 Address: Attn:
 City: Hobbs State: NM Zip: 88240 Address:
 Phone #: Fax #: City:
 Project #: Project Owner: State: Zip:
 Project Name: Phone #:
 Project Location: WUS 55th St Flow line Fax #:
 Sampler Name: Joe Gausemer Jr.

Lab I.D.	Sample I.D.	FOR LAB USE ONLY		MATRIX	PRESERV.	SAMPLING	DATE	TIME	C1	EXT TPT	BTEX
		(G)RAB OR (C)OMP	# CONTAINERS								
21	B21	(C)OMP	1	GROUNDWATER	ICE / COOL	1	11-15	9:10	X	X	X
22	B22	(C)OMP	1	GROUNDWATER	ICE / COOL	1	11-15	4:12	X	X	X
23	B23	(C)OMP	1	GROUNDWATER	ICE / COOL	1	11-15	4:14	X	X	X
24	B24	(C)OMP	1	GROUNDWATER	ICE / COOL	1	11-15	5:16	X	X	X
25	B25	(C)OMP	1	GROUNDWATER	ICE / COOL	1	11-15	10:38	X	X	X
26	B26	(C)OMP	1	GROUNDWATER	ICE / COOL	1	11-15	3:14	X	X	X
27	B27	(C)OMP	1	GROUNDWATER	ICE / COOL	1	11-15	10:44	X	X	X
28	B28	(C)OMP	1	GROUNDWATER	ICE / COOL	1	11-15	10:46	X	X	X
29	B29	(C)OMP	1	GROUNDWATER	ICE / COOL	1	11-15	3:15	X	X	X
30	B30	(C)OMP	1	GROUNDWATER	ICE / COOL	1	11-15	10:50	X	X	X

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Relinquished By: [Signature] Date: 11-15 Received By: [Signature]
 Relinquished By: [Signature] Date: 11-15 Received By: [Signature]
 Time: 10:45 Time:

Delivered By: (Circle One) Observed Temp. °C 0.5 Sample Condition Intact CHECKED BY: [Signature]
 Sampler - UPS - Bus - Other: Corrected Temp. °C 0.0 Cool Intact Yes No No No No
 Turnaround Time: Standard Bacteria (only) Sample Condition
 Thermometer ID #113 Rush Cool Intact Observed Temp. °C
 Correction Factor -0.5°C Yes No No No No Corrected Temp. °C



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apache Project Manager: Bruce Roberts		BILL TO	
Address: City: Hobbs State: NM Zip: 88240		P.O. #: Company:	
Phone #: Fax #:		Attn: Address:	
Project #: Project Owner:		City: State: Zip:	
Project Name:		Phone #: Fax #:	
Project Location: WYSSIEE RD Flow line			
Sampler Name: See Greenberg			
FOR LAB USE ONLY			
Lab I.D.: H213357	Sample I.D.:	(G)RAB OR (C)OMP.	# CONTAINERS
31 B31 @ 2' G"	32 B32 @ 2' G"	(C)	(C)
MATRIX		PRESERV.	
GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		ACID/BASE: ICE/COOL OTHER:	
DATE		SAMPLING	
11-15 10:52		X	
11-15 3:10		X	
REMARKS:		EXT TOH BTEX	

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Relinquished By: *[Signature]* Date: **11-15** Received By: *[Signature]* Date: **11-15**
 Relinquished By: *[Signature]* Date: **11-15** Received By: *[Signature] Date: **11-15***

Delivered By: (Circle One) Observed Temp. °C **0.5** Sample Condition: Intact Cool Yes No No
 Corrected Temp. °C **0.0** CHECKED BY: *[Signature]* (Initials) **AS**
 Turnaround Time: Standard Rush Bacteria (only) Cool Intact Yes No No
 Thermometer ID #113 Correction Factor -0.5°C Corrected Temp. °C

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

November 23, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NMGSAU 12 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 11/22/21 8:10.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly legible.

Mike Snyder For 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:	11/22/2021	Sampling Date:	11/20/2021
Reported:	11/23/2021	Sampling Type:	Soil
Project Name:	NMGS AU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 1 @ 3' (H213343-01)

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	11/22/2021	ND	1.92	96.2	2.00	11.6		
Toluene*	<0.050	0.050	11/22/2021	ND	1.83	91.5	2.00	11.7		
Ethylbenzene*	<0.050	0.050	11/22/2021	ND	1.79	89.6	2.00	11.9		
Total Xylenes*	<0.150	0.150	11/22/2021	ND	5.50	91.6	6.00	10.4		
Total BTEX	<0.300	0.300	11/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 69.9-140

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	11/22/2021	ND	199	99.3	200	0.359		
DRO >C10-C28*	43.4	10.0	11/22/2021	ND	224	112	200	1.25		
EXT DRO >C28-C36	<10.0	10.0	11/22/2021	ND						

Surrogate: 1-Chlorooctane 90.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.6 % 38.9-142

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* = Accredited Analyte

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Mike Snyder For 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:	11/22/2021	Sampling Date:	11/20/2021
Reported:	11/23/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 2 @ 3' (H213343-02)

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	11/22/2021	ND	1.92	96.2	2.00	11.6	
Toluene*	<0.050	0.050	11/22/2021	ND	1.83	91.5	2.00	11.7	
Ethylbenzene*	<0.050	0.050	11/22/2021	ND	1.79	89.6	2.00	11.9	
Total Xylenes*	<0.150	0.150	11/22/2021	ND	5.50	91.6	6.00	10.4	
Total BTEX	<0.300	0.300	11/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 69.9-140

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	11/22/2021	ND	199	99.3	200	0.359	
DRO >C10-C28*	31.6	10.0	11/22/2021	ND	224	112	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	11/22/2021	ND					

Surrogate: 1-Chlorooctane 87.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 88.7 % 38.9-142

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Mike Snyder For 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:	11/22/2021	Sampling Date:	11/20/2021
Reported:	11/23/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 5 @ 3' (H213343-03)

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	11/22/2021	ND	1.92	96.2	2.00	11.6	
Toluene*	<0.050	0.050	11/22/2021	ND	1.83	91.5	2.00	11.7	
Ethylbenzene*	<0.050	0.050	11/22/2021	ND	1.79	89.6	2.00	11.9	
Total Xylenes*	<0.150	0.150	11/22/2021	ND	5.50	91.6	6.00	10.4	
Total BTEX	<0.300	0.300	11/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 69.9-140

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	11/22/2021	ND	199	99.3	200	0.359	
DRO >C10-C28*	45.1	10.0	11/22/2021	ND	224	112	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	11/22/2021	ND					

Surrogate: 1-Chlorooctane 85.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 88.0 % 38.9-142

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Mike Snyder For 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:	11/22/2021	Sampling Date:	11/20/2021
Reported:	11/23/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 6 @ 3' (H213343-04)

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	11/22/2021	ND	1.92	96.2	2.00	11.6	
Toluene*	<0.050	0.050	11/22/2021	ND	1.83	91.5	2.00	11.7	
Ethylbenzene*	<0.050	0.050	11/22/2021	ND	1.79	89.6	2.00	11.9	
Total Xylenes*	<0.150	0.150	11/22/2021	ND	5.50	91.6	6.00	10.4	
Total BTEX	<0.300	0.300	11/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 69.9-140

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	11/22/2021	ND	199	99.3	200	0.359	
DRO >C10-C28*	43.6	10.0	11/22/2021	ND	224	112	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	11/22/2021	ND					

Surrogate: 1-Chlorooctane 86.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.1 % 38.9-142

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Mike Snyder For 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:	11/22/2021	Sampling Date:	11/20/2021
Reported:	11/23/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 8 @ 3' (H213343-05)

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	11/22/2021	ND	1.92	96.2	2.00	11.6	
Toluene*	<0.050	0.050	11/22/2021	ND	1.83	91.5	2.00	11.7	
Ethylbenzene*	<0.050	0.050	11/22/2021	ND	1.79	89.6	2.00	11.9	
Total Xylenes*	<0.150	0.150	11/22/2021	ND	5.50	91.6	6.00	10.4	
Total BTEX	<0.300	0.300	11/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 69.9-140

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	11/22/2021	ND	199	99.3	200	0.359	
DRO >C10-C28*	38.7	10.0	11/22/2021	ND	224	112	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	11/22/2021	ND					

Surrogate: 1-Chlorooctane 88.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.9 % 38.9-142

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Mike Snyder For 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:	11/22/2021	Sampling Date:	11/20/2021
Reported:	11/23/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 9 @ 3' (H213343-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2021	ND	1.92	96.2	2.00	11.6	
Toluene*	<0.050	0.050	11/22/2021	ND	1.83	91.5	2.00	11.7	
Ethylbenzene*	<0.050	0.050	11/22/2021	ND	1.79	89.6	2.00	11.9	
Total Xylenes*	<0.150	0.150	11/22/2021	ND	5.50	91.6	6.00	10.4	
Total BTEX	<0.300	0.300	11/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 69.9-140

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	11/22/2021	ND	199	99.3	200	0.359	
DRO >C10-C28*	64.4	10.0	11/22/2021	ND	224	112	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	11/22/2021	ND					

Surrogate: 1-Chlorooctane 88.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.1 % 38.9-142

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Mike Snyder For 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:	11/22/2021	Sampling Date:	11/20/2021
Reported:	11/23/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 10 @ 3' (H213343-07)

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	11/22/2021	ND	1.92	96.2	2.00	11.6		
Toluene*	<0.050	0.050	11/22/2021	ND	1.83	91.5	2.00	11.7		
Ethylbenzene*	<0.050	0.050	11/22/2021	ND	1.79	89.6	2.00	11.9		
Total Xylenes*	<0.150	0.150	11/22/2021	ND	5.50	91.6	6.00	10.4		
Total BTEX	<0.300	0.300	11/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 69.9-140

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	11/22/2021	ND	199	99.3	200	0.359		
DRO >C10-C28*	69.0	10.0	11/22/2021	ND	224	112	200	1.25		
EXT DRO >C28-C36	<10.0	10.0	11/22/2021	ND						

Surrogate: 1-Chlorooctane 90.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.9 % 38.9-142

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Mike Snyder For 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:	11/22/2021	Sampling Date:	11/20/2021
Reported:	11/23/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 11 @ 3' (H213343-08)

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	11/22/2021	ND	1.92	96.2	2.00	11.6		
Toluene*	<0.050	0.050	11/22/2021	ND	1.83	91.5	2.00	11.7		
Ethylbenzene*	<0.050	0.050	11/22/2021	ND	1.79	89.6	2.00	11.9		
Total Xylenes*	<0.150	0.150	11/22/2021	ND	5.50	91.6	6.00	10.4		
Total BTEX	<0.300	0.300	11/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 69.9-140

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	11/22/2021	ND	199	99.3	200	0.359		
DRO >C10-C28*	59.3	10.0	11/22/2021	ND	224	112	200	1.25		
EXT DRO >C28-C36	<10.0	10.0	11/22/2021	ND						

Surrogate: 1-Chlorooctane 87.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.3 % 38.9-142

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Mike Snyder For 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:	11/22/2021	Sampling Date:	11/20/2021
Reported:	11/23/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 17 @ 3' (H213343-09)

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	11/22/2021	ND	1.92	96.2	2.00	11.6		
Toluene*	<0.050	0.050	11/22/2021	ND	1.83	91.5	2.00	11.7		
Ethylbenzene*	<0.050	0.050	11/22/2021	ND	1.79	89.6	2.00	11.9		
Total Xylenes*	<0.150	0.150	11/22/2021	ND	5.50	91.6	6.00	10.4		
Total BTEX	<0.300	0.300	11/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 69.9-140

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	11/22/2021	ND	199	99.3	200	0.359		
DRO >C10-C28*	45.4	10.0	11/22/2021	ND	224	112	200	1.25		
EXT DRO >C28-C36	<10.0	10.0	11/22/2021	ND						

Surrogate: 1-Chlorooctane 82.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.0 % 38.9-142

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Mike Snyder For 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:	11/22/2021	Sampling Date:	11/20/2021
Reported:	11/23/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 16 @ 3' (H213343-10)

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	11/22/2021	ND	1.92	96.2	2.00	11.6	
Toluene*	<0.050	0.050	11/22/2021	ND	1.83	91.5	2.00	11.7	
Ethylbenzene*	<0.050	0.050	11/22/2021	ND	1.79	89.6	2.00	11.9	
Total Xylenes*	<0.150	0.150	11/22/2021	ND	5.50	91.6	6.00	10.4	
Total BTEX	<0.300	0.300	11/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 69.9-140

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	11/22/2021	ND	199	99.3	200	0.359	
DRO >C10-C28*	57.2	10.0	11/22/2021	ND	224	112	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	11/22/2021	ND					

Surrogate: 1-Chlorooctane 85.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.4 % 38.9-142

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Mike Snyder For 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:	11/22/2021	Sampling Date:	11/20/2021
Reported:	11/23/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 15 @ 3' (H213343-11)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/22/2021	ND	1.92	96.2	2.00	11.6		
Toluene*	<0.050	0.050	11/22/2021	ND	1.83	91.5	2.00	11.7		
Ethylbenzene*	<0.050	0.050	11/22/2021	ND	1.79	89.6	2.00	11.9		
Total Xylenes*	<0.150	0.150	11/22/2021	ND	5.50	91.6	6.00	10.4		
Total BTEX	<0.300	0.300	11/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 69.9-140

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	11/22/2021	ND	199	99.3	200	0.359		
DRO >C10-C28*	56.7	10.0	11/22/2021	ND	224	112	200	1.25		
EXT DRO >C28-C36	<10.0	10.0	11/22/2021	ND						

Surrogate: 1-Chlorooctane 87.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.5 % 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:	11/22/2021	Sampling Date:	11/20/2021
Reported:	11/23/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 13 @ 3' (H213343-12)

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	11/22/2021	ND	1.92	96.2	2.00	11.6		
Toluene*	<0.050	0.050	11/22/2021	ND	1.83	91.5	2.00	11.7		
Ethylbenzene*	<0.050	0.050	11/22/2021	ND	1.79	89.6	2.00	11.9		
Total Xylenes*	<0.150	0.150	11/22/2021	ND	5.50	91.6	6.00	10.4		
Total BTEX	<0.300	0.300	11/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 69.9-140

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	11/22/2021	ND	199	99.3	200	0.359		
DRO >C10-C28*	105	10.0	11/22/2021	ND	224	112	200	1.25		
EXT DRO >C28-C36	15.4	10.0	11/22/2021	ND						

Surrogate: 1-Chlorooctane 82.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.8 % 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:	11/22/2021	Sampling Date:	11/20/2021
Reported:	11/23/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 14 @ 3' (H213343-13)

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	11/22/2021	ND	1.92	96.2	2.00	11.6		
Toluene*	<0.050	0.050	11/22/2021	ND	1.83	91.5	2.00	11.7		
Ethylbenzene*	<0.050	0.050	11/22/2021	ND	1.79	89.6	2.00	11.9		
Total Xylenes*	<0.150	0.150	11/22/2021	ND	5.50	91.6	6.00	10.4		
Total BTEX	<0.300	0.300	11/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 69.9-140

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	11/22/2021	ND	199	99.3	200	0.359		
DRO >C10-C28*	65.7	10.0	11/22/2021	ND	224	112	200	1.25		
EXT DRO >C28-C36	<10.0	10.0	11/22/2021	ND						

Surrogate: 1-Chlorooctane 86.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 88.9 % 38.9-142

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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 "Mike Snyder".

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Apache</u> Project Manager: <u>Raouf Balcer</u>		P.O. #: Company: Attn: Address: City: State: <u>NM</u> Zip: <u>88240</u>	
Address: City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u> Phone #: Fax #: Project #: Project Owner:		State: Zip: City: Phone #: Fax #:	
Project Location: <u>WUSTRA 12 flow line</u> Project Name: <u>see Casselberry dr</u> Sample Name: <u>see Casselberry dr</u>			
FOR LAB USE ONLY Lab I.D. <u>H213343</u>		Sample I.D.	
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 reasons or otherwise.		(G)RAB OR (C)OMP. <input checked="" type="checkbox"/> # CONTAINERS: <u>1</u> MATRIX: GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER: PRESERV: ACID/BASE: <input checked="" type="checkbox"/> COOL, OTHER: DATE: <u>11-20-21</u> TIME: <u>9:18</u>	
Relinquished By: <u>[Signature]</u> Date: <u>11-20-21</u> Time: <u>8:10</u>		Received By: <u>[Signature]</u> Date: <u>11-20-21</u> Time: <u>11:50</u>	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C: <u>0.9</u> Corrected Temp. °C: <u>0.4</u> Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Turnaround Time: <u>Standard</u> <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #113 Correction Factor -0.5°C		Bacteria (only) Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C: Corrected Temp. °C:	
REMARKS:			
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address:			

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Apache</u> Project Manager: <u>Bruce Baker</u>		BILL TO	
Address: _____ City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>		P.O. #: _____ Company: _____	
Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____		Attn: _____ Address: _____ City: _____ State: _____ Zip: _____	
Project Name: _____ Project Location: <u>WESSLEY BLOWTIND</u>		Phone #: _____ Fax #: _____	
Sampler Name: <u>Joe Quisenberry Jr</u>			
FOR LAB USE ONLY			
Lab I.D. <u>H2133X3</u>	Sample I.D. _____	(G)RAB OR (C)OMP. _____	# CONTAINERS _____
Matrix: _____ GROUNDWATER _____ WASTEWATER _____ SOIL _____ OIL _____ SLUDGE _____ OTHER: _____		ACID/BASE: _____ (C) / COOL _____ OTHER: _____	DATE _____ TIME _____
11 BIS @ 3' 12 BIS @ 3' 13 BIS @ 3'	1 1 1	1 1 1	11-20 12:34 11-20 1:30 11-20 1:38
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____		ANALYSIS REQUEST	
REMARKS: _____			



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

November 23, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NMGSAU 12 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 11/22/21 8:10.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive.

Mike Snyder For 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:	11/22/2021	Sampling Date:	11/20/2021
Reported:	11/23/2021	Sampling Type:	Soil
Project Name:	NMGS AU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 11 BGS 2-3' (H213344-01)

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	11/22/2021	ND	1.92	96.2	2.00	11.6		
Toluene*	<0.050	0.050	11/22/2021	ND	1.83	91.5	2.00	11.7		
Ethylbenzene*	<0.050	0.050	11/22/2021	ND	1.79	89.6	2.00	11.9		
Total Xylenes*	<0.150	0.150	11/22/2021	ND	5.50	91.6	6.00	10.4		
Total BTEX	<0.300	0.300	11/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 69.9-140

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	11/22/2021	ND	199	99.3	200	0.359		
DRO >C10-C28*	57.1	10.0	11/22/2021	ND	224	112	200	1.25		
EXT DRO >C28-C36	<10.0	10.0	11/22/2021	ND						

Surrogate: 1-Chlorooctane 90.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 92.9 % 38.9-142

Cardinal Laboratories

* = Accredited Analyte

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Mike Snyder For 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:	11/22/2021	Sampling Date:	11/20/2021
Reported:	11/23/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 12 BGS 2-3' (H213344-02)

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	11/22/2021	ND	1.92	96.2	2.00	11.6		
Toluene*	<0.050	0.050	11/22/2021	ND	1.83	91.5	2.00	11.7		
Ethylbenzene*	<0.050	0.050	11/22/2021	ND	1.79	89.6	2.00	11.9		
Total Xylenes*	<0.150	0.150	11/22/2021	ND	5.50	91.6	6.00	10.4		
Total BTEX	<0.300	0.300	11/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 69.9-140

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	11/22/2021	ND	199	99.3	200	0.359		
DRO >C10-C28*	54.9	10.0	11/22/2021	ND	224	112	200	1.25		
EXT DRO >C28-C36	<10.0	10.0	11/22/2021	ND						

Surrogate: 1-Chlorooctane 83.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.5 % 38.9-142

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*=Accredited Analyte

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Mike Snyder For 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:	11/22/2021	Sampling Date:	11/20/2021
Reported:	11/23/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 13 BGS 2-3' (H213344-03)

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	11/22/2021	ND	1.92	96.2	2.00	11.6		
Toluene*	<0.050	0.050	11/22/2021	ND	1.83	91.5	2.00	11.7		
Ethylbenzene*	<0.050	0.050	11/22/2021	ND	1.79	89.6	2.00	11.9		
Total Xylenes*	<0.150	0.150	11/22/2021	ND	5.50	91.6	6.00	10.4		
Total BTEX	<0.300	0.300	11/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 69.9-140

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	11/22/2021	ND	199	99.3	200	0.359		
DRO >C10-C28*	71.6	10.0	11/22/2021	ND	224	112	200	1.25		
EXT DRO >C28-C36	12.2	10.0	11/22/2021	ND						

Surrogate: 1-Chlorooctane 78.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.6 % 38.9-142

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Mike Snyder For 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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*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Apache</u> Project Manager: <u>Rover Baker</u>		BILL TO		ANALYSIS REQUEST													
Address: _____ City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>		P.O. #: _____ Company: _____															
Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____		Attn: _____ Address: _____ City: _____ State: _____ Zip: _____															
Project Name: _____ Project Location: <u>URGENT B Flow line</u>		Fax #: _____ Phone #: _____															
Sampler Name: <u>See Chaseville dr.</u>		MATRIX: <table border="1" style="font-size: small;"> <tr><td>GROUNDWATER</td><td></td></tr> <tr><td>WASTEWATER</td><td></td></tr> <tr><td>SOIL</td><td></td></tr> <tr><td>OIL</td><td></td></tr> <tr><td>SLUDGE</td><td></td></tr> <tr><td>OTHER :</td><td></td></tr> </table>		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		PRESERV: _____ SAMPLING: _____	
GROUNDWATER																	
WASTEWATER																	
SOIL																	
OIL																	
SLUDGE																	
OTHER :																	
FOR LAB USE ONLY		(G)RAB OR (C)OMP. # CONTAINERS															
Lab I.D. _____ Sample I.D. _____		SOIL _____ OIL _____ SLUDGE _____ OTHER : _____															
H213344 1 W11 BLS 2-3 2 W12 BLS 2-3 3 W13 BLS 2-3		ACID/BASE: _____ ICB / COOL _____ OTHER : _____															
		DATE TIME															
		11-20 1:42 11-20 1:44 11-20 1:46		Ext TPH BTEX													

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Relinquished By: _____ Date: 11-22-21 Received By: Lawrence

Relinquished By: _____ Date: 11-22-21 Time: 0810 Received By: _____

Turnaround Time: _____ Standard Rush Bacteria (only) Cool Intact Yes No Sample Condition Observed Temp. °C _____ Corrected Temp. °C _____

Delivered By: (Circle One) UPS Observed Temp. °C 0.9 Sample Condition Cool Intact Yes No Corrected Temp. °C 0.84 CHECKED BY: (Initials) AS

Sampler - UPS - Bus - Other: _____

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



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

November 23, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NMGSAU 12 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 11/22/21 16:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" being more prominent than the last name "Snyder".

Mike Snyder For 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:	11/22/2021	Sampling Date:	11/22/2021
Reported:	11/23/2021	Sampling Type:	Soil
Project Name:	NMGS AU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 20 @ 3' (H213368-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2021	ND	1.77	88.7	2.00	7.68	
Toluene*	<0.050	0.050	11/23/2021	ND	1.97	98.3	2.00	6.23	
Ethylbenzene*	<0.050	0.050	11/23/2021	ND	2.04	102	2.00	5.58	
Total Xylenes*	<0.150	0.150	11/23/2021	ND	6.23	104	6.00	5.62	
Total BTEX	<0.300	0.300	11/23/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 69.9-140

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	11/23/2021	ND	200	99.9	200	0.378	
DRO >C10-C28*	25.6	10.0	11/23/2021	ND	224	112	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	11/23/2021	ND					

Surrogate: 1-Chlorooctane 74.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 73.0 % 38.9-142

Cardinal Laboratories

* = Accredited Analyte

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Mike Snyder For 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:	11/22/2021	Sampling Date:	11/22/2021
Reported:	11/23/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 21 @ 3' (H213368-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/23/2021	ND	1.77	88.7	2.00	7.68		
Toluene*	<0.050	0.050	11/23/2021	ND	1.97	98.3	2.00	6.23		
Ethylbenzene*	<0.050	0.050	11/23/2021	ND	2.04	102	2.00	5.58		
Total Xylenes*	<0.150	0.150	11/23/2021	ND	6.23	104	6.00	5.62		
Total BTEX	<0.300	0.300	11/23/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 69.9-140

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	11/23/2021	ND	200	99.9	200	0.378		
DRO >C10-C28*	26.1	10.0	11/23/2021	ND	224	112	200	1.67		
EXT DRO >C28-C36	<10.0	10.0	11/23/2021	ND						

Surrogate: 1-Chlorooctane 73.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.4 % 38.9-142

Cardinal Laboratories

* = Accredited Analyte

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Mike Snyder For 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:	11/22/2021	Sampling Date:	11/22/2021
Reported:	11/23/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 22 @ 3' (H213368-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/23/2021	ND	1.77	88.7	2.00	7.68		
Toluene*	<0.050	0.050	11/23/2021	ND	1.97	98.3	2.00	6.23		
Ethylbenzene*	<0.050	0.050	11/23/2021	ND	2.04	102	2.00	5.58		
Total Xylenes*	<0.150	0.150	11/23/2021	ND	6.23	104	6.00	5.62		
Total BTEX	<0.300	0.300	11/23/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 69.9-140

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	11/23/2021	ND	200	99.9	200	0.378		
DRO >C10-C28*	40.7	10.0	11/23/2021	ND	224	112	200	1.67		
EXT DRO >C28-C36	<10.0	10.0	11/23/2021	ND						

Surrogate: 1-Chlorooctane 74.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 73.8 % 38.9-142

Cardinal Laboratories

* = Accredited Analyte

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

Mike Snyder For 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:	11/22/2021	Sampling Date:	11/22/2021
Reported:	11/23/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 23 @ 3' (H213368-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/23/2021	ND	1.77	88.7	2.00	7.68		
Toluene*	<0.050	0.050	11/23/2021	ND	1.97	98.3	2.00	6.23		
Ethylbenzene*	<0.050	0.050	11/23/2021	ND	2.04	102	2.00	5.58		
Total Xylenes*	<0.150	0.150	11/23/2021	ND	6.23	104	6.00	5.62		
Total BTEX	<0.300	0.300	11/23/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 69.9-140

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	11/23/2021	ND	200	99.9	200	0.378		
DRO >C10-C28*	24.4	10.0	11/23/2021	ND	224	112	200	1.67		
EXT DRO >C28-C36	<10.0	10.0	11/23/2021	ND						

Surrogate: 1-Chlorooctane 61.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 61.0 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For 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:	11/22/2021	Sampling Date:	11/22/2021
Reported:	11/23/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 25 @ 3' (H213368-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/23/2021	ND	1.77	88.7	2.00	7.68		
Toluene*	<0.050	0.050	11/23/2021	ND	1.97	98.3	2.00	6.23		
Ethylbenzene*	<0.050	0.050	11/23/2021	ND	2.04	102	2.00	5.58		
Total Xylenes*	<0.150	0.150	11/23/2021	ND	6.23	104	6.00	5.62		
Total BTEX	<0.300	0.300	11/23/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 69.9-140

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	11/23/2021	ND	200	99.9	200	0.378		
DRO >C10-C28*	34.9	10.0	11/23/2021	ND	224	112	200	1.67		
EXT DRO >C28-C36	<10.0	10.0	11/23/2021	ND						

Surrogate: 1-Chlorooctane 76.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 74.8 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For 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:	11/22/2021	Sampling Date:	11/22/2021
Reported:	11/23/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 28 @ 3' (H213368-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/23/2021	ND	1.77	88.7	2.00	7.68		
Toluene*	<0.050	0.050	11/23/2021	ND	1.97	98.3	2.00	6.23		
Ethylbenzene*	<0.050	0.050	11/23/2021	ND	2.04	102	2.00	5.58		
Total Xylenes*	<0.150	0.150	11/23/2021	ND	6.23	104	6.00	5.62		
Total BTEX	<0.300	0.300	11/23/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 69.9-140

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	11/23/2021	ND	200	99.9	200	0.378		
DRO >C10-C28*	75.1	10.0	11/23/2021	ND	224	112	200	1.67		
EXT DRO >C28-C36	<10.0	10.0	11/23/2021	ND						

Surrogate: 1-Chlorooctane 66.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 66.2 % 38.9-142

Cardinal Laboratories

* = Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

A handwritten signature in black ink, appearing to read "Mike Snyder".

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Apache</u> Project Manager: <u>Ramon Baker</u> Address: _____ City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88400</u> Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____ Project Name: _____ Project Location: <u>Westerly flow line</u> Sampler Name: <u>see Overall</u>		BILL TO P.O. #: _____ Company: _____ Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
FOR LAB USE ONLY Lab I.D. <u>H213318</u> Sample I.D. _____		ANALYSIS REQUEST	
PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business 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 reasons or otherwise.			
Relinquished By: _____ Date: <u>11-22</u> Relinquished By: _____ Date: <u>11-22</u>		Received By: <u>Jawata</u> Received By: _____	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____ Observed Temp. °C <u>5.4</u> Corrected Temp. °C <u>4.9</u>		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Bacteria (only) <input type="checkbox"/> Yes <input type="checkbox"/> No Turnaround Time: _____ Thermometer ID #113 Correction Factor -0.5°C	
CHECKED BY: _____ (Initials) Turnaround Time: _____ Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> Yes <input type="checkbox"/> No Sample Condition <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C _____ Corrected Temp. °C _____		REMARKS: _____ Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____	
Matrix: _____ (G)RAB OR (C)OMP. _____ # CONTAINERS _____ GROUNDWATER _____ WASTEWATER _____ SOIL _____ OIL _____ SLUDGE _____ OTHER: _____ ACID/BASE: _____ ICE / COOL _____ OTHER: _____		DATE TIME _____ EXT TPH _____ BTEX _____	



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

November 23, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NMGSAU 12 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 11/22/21 16:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder".

Mike Snyder For 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:	11/22/2021	Sampling Date:	11/22/2021
Reported:	11/23/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 14 BGS 3-4' (H213369-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2021	ND	1.77	88.7	2.00	7.68	
Toluene*	<0.050	0.050	11/23/2021	ND	1.97	98.3	2.00	6.23	
Ethylbenzene*	<0.050	0.050	11/23/2021	ND	2.04	102	2.00	5.58	
Total Xylenes*	<0.150	0.150	11/23/2021	ND	6.23	104	6.00	5.62	
Total BTEX	<0.300	0.300	11/23/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 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	144	16.0	11/23/2021	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2021	ND	200	99.9	200	0.378	
DRO >C10-C28*	23.0	10.0	11/23/2021	ND	224	112	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	11/23/2021	ND					

Surrogate: 1-Chlorooctane 73.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 73.4 % 38.9-142

Cardinal Laboratories

* = Accredited Analyte

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Mike Snyder For 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:	11/22/2021	Sampling Date:	11/22/2021
Reported:	11/23/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 15 BGS 3-4' (H213369-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/23/2021	ND	1.77	88.7	2.00	7.68	
Toluene*	<0.050	0.050	11/23/2021	ND	1.97	98.3	2.00	6.23	
Ethylbenzene*	<0.050	0.050	11/23/2021	ND	2.04	102	2.00	5.58	
Total Xylenes*	<0.150	0.150	11/23/2021	ND	6.23	104	6.00	5.62	
Total BTEX	<0.300	0.300	11/23/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 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	11/23/2021	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/23/2021	ND	200	99.9	200	0.378	
DRO >C10-C28*	23.0	10.0	11/23/2021	ND	224	112	200	1.67	
EXT DRO >C28-C36	<10.0	10.0	11/23/2021	ND					

Surrogate: 1-Chlorooctane 73.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 71.7 % 38.9-142

Cardinal Laboratories

* = Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apache
 Project Manager: Roger Baker

Address: _____

City: Hobbs State: NM Zip: 88240

Phone #: _____ Fax #: _____

Project #: _____ Project Owner: _____

Project Name: _____

Project Location: Waterline 12 Flow line

Sampler Name: see above label

FOR LAB USE ONLY

BILL TO

ANALYSIS REQUEST

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

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	REMARKS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
<u>H213369</u>	<u>1 W14 BGS 3-4'</u>	<u>C</u>	<u>1</u>			<u>1</u>				<u>11/22</u>	<u>3:12</u>	<u>Ext TPH</u>
	<u>2 W15 BGS 3-4'</u>	<u>C</u>	<u>1</u>			<u>1</u>				<u>11/22</u>	<u>3:14</u>	<u>BTX</u>

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, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: [Signature] Date: 11-22
 Relinquished By: [Signature] Date: 11-22

Received By: [Signature]
 Received By: [Signature]

Time: _____
 Date: _____

Delivered By: (Circle One)

Sampler - UPS - Bus - Other: _____

Observed Temp. °C: 5.4
 Corrected Temp. °C: 4.9

Sample Condition
 Cool Intact: Yes No
 Yes No

CHECKED BY: [Signature]
 (Initials)

Turnaround Time: _____
 Thermometer ID #113
 Correction Factor -0.5°C

Standard Rush

Bacteria (only) Sample Condition
 Cool Intact: Yes No
 Yes No

Corrected Temp. °C: _____

REMARKS: _____
 Verbal Result: Yes No Add'l Phone #: _____
 All Results are emailed. Please provide Email address: _____

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



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

November 24, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NMGSAU 12 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 11/23/21 13:13.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder".

Mike Snyder For 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:	11/23/2021	Sampling Date:	11/23/2021
Reported:	11/24/2021	Sampling Type:	Soil
Project Name:	NMGS AU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: B 13 @ 4' (H213374-01)

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	11/23/2021	ND	2.03	102	2.00	5.49		
Toluene*	<0.050	0.050	11/23/2021	ND	1.93	96.4	2.00	6.29		
Ethylbenzene*	<0.050	0.050	11/23/2021	ND	1.90	95.0	2.00	6.09		
Total Xylenes*	<0.150	0.150	11/23/2021	ND	5.80	96.6	6.00	5.23		
Total BTEX	<0.300	0.300	11/23/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 69.9-140

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	11/24/2021	ND	194	97.0	200	25.7		
DRO >C10-C28*	<10.0	10.0	11/24/2021	ND	218	109	200	18.4		
EXT DRO >C28-C36	<10.0	10.0	11/24/2021	ND						

Surrogate: 1-Chlorooctane 92.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 91.9 % 38.9-142

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Mike Snyder For 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:	11/23/2021	Sampling Date:	11/23/2021
Reported:	11/24/2021	Sampling Type:	Soil
Project Name:	NMGSAU 12 FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: W 16 BGS 3-4' (H213374-02)

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	11/23/2021	ND	2.03	102	2.00	5.49		
Toluene*	<0.050	0.050	11/23/2021	ND	1.93	96.4	2.00	6.29		
Ethylbenzene*	<0.050	0.050	11/23/2021	ND	1.90	95.0	2.00	6.09		
Total Xylenes*	<0.150	0.150	11/23/2021	ND	5.80	96.6	6.00	5.23		
Total BTEX	<0.300	0.300	11/23/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 69.9-140

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	11/24/2021	ND	194	97.0	200	25.7		
DRO >C10-C28*	<10.0	10.0	11/24/2021	ND	218	109	200	18.4		
EXT DRO >C28-C36	<10.0	10.0	11/24/2021	ND						

Surrogate: 1-Chlorooctane 117 % 44.3-133

Surrogate: 1-Chlorooctadecane 114 % 38.9-142

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Mike Snyder For 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 "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apache Project Manager: Bruce Baker		P.O. #: _____ Company: _____	
Address: _____ City: Hobbs State: NM zip: 88240		Attn: _____ Address: _____	
Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____		City: _____ State: _____ Zip: _____	
Project Location: 216544 #12 Flow line		Phone #: _____ Fax #: _____	
Sampler Name: Joe Chamberlain		FOR LAB USE ONLY	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		DATE	TIME						
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL								
H213314	B304'	C	1								11/23	12:48							
	2 PM 16 B45 3-4'	C	1								11/23	12:48							

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Relinquished By: _____ Date: 11-23	Received By: Scotti Henderson Date: 11-23
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____	Observed Temp. °C: 3.4 Corrected Temp. °C: 2.9
Turnaround Time: _____ Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>	Bacteria (only) <input type="checkbox"/> Cool Intact <input type="checkbox"/> Sample Condition <input type="checkbox"/> Observed Temp. °C: _____ Corrected Temp. °C: _____

REMARKS: **E-mailed results to Bruce Baker**

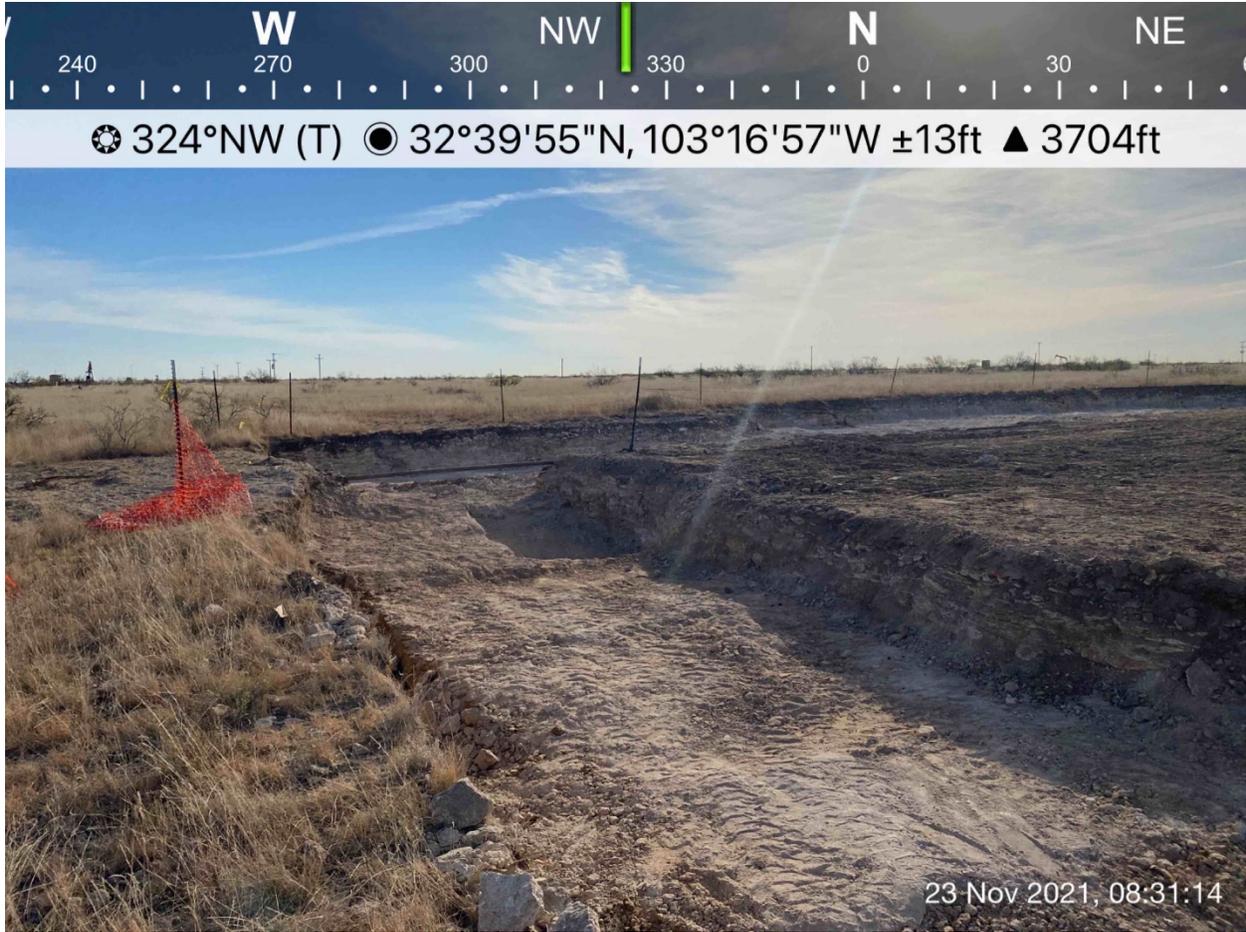
Verbal Result: Yes No Add'l Phone #: _____
 All Results are emailed. Please provide Email address: _____



☀ 24°NE (T) ● 32°39'55"N, 103°16'57"W ±13ft ▲ 3704ft









📍 128°SE (T) 📍 32°39'55"N, 103°16'57"W ±22ft ▲ 3705ft



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 64132

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 64132
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	12/27/2021