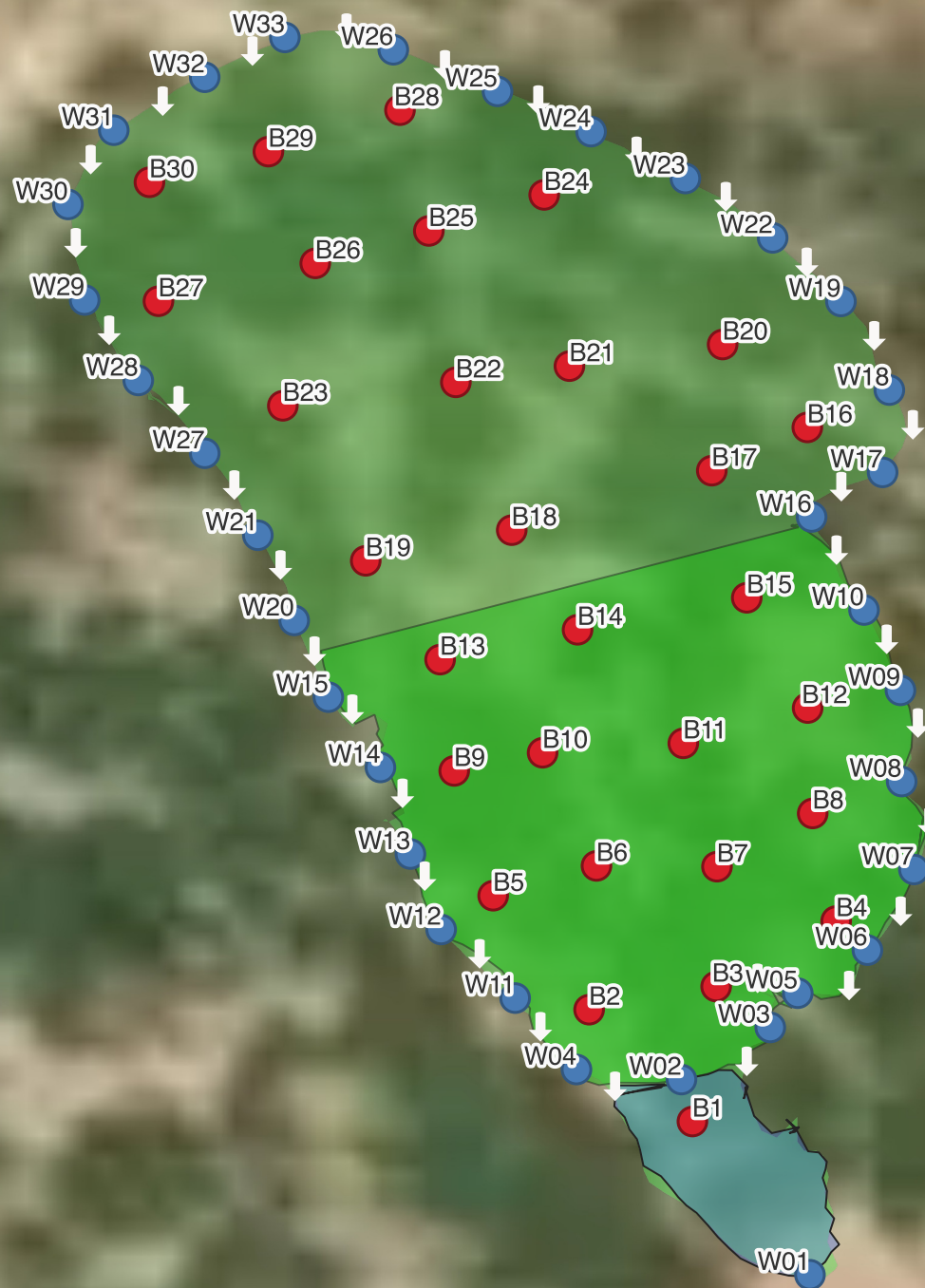


SAMPLE ID	LAB ID NUMBER	SAMPLE DEPTH	SAMPLE DATE	SAMPLE TYPE	BENZENE	TOLUENE mg/kg	ETHYL-BENZEN (mg/kg)	TOTAL XYLENES mg/kg	TOTAL BTX (mg/kg)	GRO C 6-C 10 (mg/kg)	DRO C 6-C 10 (mg/kg)	EXT DRO C 28- C36 (mg/kg)	TPH C6-c36 (mg/kg)	CHLORIDE (mg/kg)
W- 1 WALL	H220875-01	0-2'	03-04-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
W- 2 WALL	H220875-02	2-16'	03-04-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	384
W- 3 WALL	H220875-03	0-16'	03-04-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	14.7	<10.0	14.7	256
W- 4 WALL	H221459-01	0-16' 6"	04-08-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	736
W- 5 WALL	H220875-06	0-16'	03-04-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	240
W- 6 WALL	H220875-07	0-16'	03-04-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	544
W- 7 WALL	H221459-05	0-16' 6"	04-08-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	448
W- 8 WALL	H220897-03	0-16'	03-07-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	384
W- 9 WALL	H220923-01	0-16'	03-08-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	400
W- 10 WALL	H220923-02	0-16'	03-08-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	528
W- 11 WALL	H221459-02	0-16' 6"	04-08-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	304
W- 12 WALL	H220897-02	0-16'	03-07-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	400
W- 13 WALL	H221459-03	0-16' 6"	04-08-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	720
W-14 WALL	H221459-04	0-16' 6"	04-08-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	400
W- 15 WALL	H220923-03	0-16'	03-08-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	496
W- 16 WALL	H221459-06	0-16' 6"	04-08-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	17.0	17.0	576
W- 17 WALL	H220953-09	0-16'	03-09-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	272
W- 18 WALL	H220953-10	0-16'	03-09-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	448
W- 19 WALL	H220953-06	0-16'	03-09-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	480
W- 20 WALL	H220953-07	0-16'	03-09-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	256
W- 21 WALL	H220953-08	0-16'	03-07-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	160
W- 22 WALL	H220979-04	0-22'	03-10-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	400
W- 23 WALL	H220979-05	0-22'	03-10-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	560
W- 24 WALL	H220979-07	0-22'	03-10-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	448
W- 25 WALL	H220979-08	0-22'	03-10-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	464
W- 26 WALL	H220979-06	0-22'	03-10-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	656
W- 26 WALL	H223039-01	0-22'	07-13-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	320
W- 27 WALL	H220979-09	0-22'	03-10-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	496
W- 28 WALL	H220979-10	0-22'	03-10-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	432
W- 29 WALL	H220979-11	0-22'	03-10-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	416
W- 30 WALL	H220979-12	0-22'	03-10-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	96.0
W- 31 WALL	H220979-13	0-22'	03-10-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
W- 32 WALL	H220979-14	0-22'	03-10-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	96.0
W- 33 WALL	H220979-15	0-22'	03-10-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	67.4	20.6	88	208.0

SAMPLE ID	LAB ID NUMBER	SAMPLE DEPHT	SAMPLE DATE	SAMPLE TYPE	BENZENE	TOLUENE mg/ kg	ETHYL-BENZEN (mg/ kg)	TOTAL XYLENES mg/kg	TOTAL BTEX (mg/kg)	GRO C 6-C 10 (mg/kg)	DRO C 6-C 10 (mg/kg)	EXT DRO C 28- C36 (mg/kg)	TPH C6-c36 (mg/kg)	CHLORIDE (mg/kg)
B- 1 FLOOR	H220875-04	2'	03-04-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300 <0.300	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	<10.0 <10.0	80
B- 2 FLOOR	H220875-09	16'	03-04-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	688
B- 2 FLOOR	H221430-01	16' 6"	04-07-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	288
B- 3 FLOOR	H220897-06	16' 5"	03-07-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	24.7	<10.0	24.7	64.0
B- 4 FLOOR	H220923-04	16' 8"	03-08-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	21.2	39.6	79.2	400
B- 5 FLOOR	H220923-05	16' 5"	03-08-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	24.8	24.8	416
B- 6 FLOOR	H220923-06	16' 5"	03-08-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	592
B- 7 FLOOR	H220923-07	16'	03-08-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	768
B- 7 FLOOR	H221430-02	16' 6"	04-07-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1150
B- 8 FLOOR	H220923-08	16'	03-09-2022	COMP	0.060	0.172	0.060	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	752
B- 8 FLOOR	H221430-03	16' 6"	04-07-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	960
B- 9 FLOOR	H220953-01	16' 5"	03-09-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32
B- 10 FLOOR	H220953-02	16' 5"	03-09-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	128
B- 11 FLOOR	H220953-03	16' 5"	03-09-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48
B- 12 FLOOR	H220953-04	16' 5"	03-09-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	640
B- 12 FLOOR	H221430-04	17'	04-07-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	752
B- 13 FLOOR	H220979-01	16'	03-10-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	672
B- 13 FLOOR	H221430-05	16' 6"	04-07-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	992
B- 14 FLOOR	H220979-02	16'5"	03-10-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	736
B- 14 FLOOR	H221430-06	17'	04-07-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	816
B- 15 FLOOR	H220979-03	16'5"	03-10-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	672
B- 15 FLOOR	H221430-07	17'	04-07-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	912
B-16 FLOOR	H223039-02	20'	07-13-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	528
B-17 FLOOR	H223071-01	20'	07-14-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1790
B-18 FLOOR	H223071-02	20'	07-14-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1890
B-19 FLOOR	H223071-03	20'	07-14-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1550
B-20 FLOOR	H223071-04	20'	07-14-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	416
B-21 FLOOR	H223102-01	20'	07-15-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1600
B-22 FLOOR	H223102-02	20'	07-15-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	43.9	<10.0	43.9	1220
B-23 FLOOR	H223102-03	20'	07-15-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	688
B-24 FLOOR	H223102-04	20'	07-15-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	272
B-25 FLOOR	H2231902-05	20'	07-15-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1180
B-26 FLOOR	H223102-06	20'	07-15-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	11.6	<10.0	11.6	1070
B-27 FLOOR	H223102-07	20'	07-15-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	416
B-28 FLOOR	H223102-08	20'	07-15-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	800
B-29 FLOOR	H223102-09	20'	07-15-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	608
B-30 FLOOR	H223102-10	20'	07-15-2022	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	688



JR Phillips #8

Location:  
32.60402783,-103.30527433





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

---

July 18, 2022

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: J R PHILLIPS #8

Enclosed are the results of analyses for samples received by the laboratory on 07/13/22 16:36.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 07/13/2022  
Reported: 07/18/2022  
Project Name: J R PHILLIPS #8  
Project Number: NONE GIVEN  
Project Location: MONUMENT, NM

Sampling Date: 07/13/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: W26 BGS 0-20' (H223039-01)**

BTX 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	07/16/2022	ND	1.89	94.7	2.00	2.71	
Toluene*	<0.050	0.050	07/16/2022	ND	2.07	104	2.00	2.53	
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.03	101	2.00	1.84	
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.40	107	6.00	2.05	
Total BTX	<0.300	0.300	07/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	320	16.0	07/15/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2022	ND	168	84.1	200	15.8	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	177	88.4	200	14.7	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022						

Surrogate: 1-Chlorooctane 72.0 % 43-149

Surrogate: 1-Chlorooctadecane 83.0 % 42.5-161

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

**Analytical Results For:**

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

Received: 07/13/2022  
Reported: 07/18/2022  
Project Name: J R PHILLIPS #8  
Project Number: NONE GIVEN  
Project Location: MONUMENT, NM

Sampling Date: 07/13/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B16 @ 20' (H223039-02)**

BTX 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	07/16/2022	ND	1.89	94.7	2.00	2.71	
Toluene*	<0.050	0.050	07/16/2022	ND	2.07	104	2.00	2.53	
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.03	101	2.00	1.84	
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.40	107	6.00	2.05	
Total BTX	<0.300	0.300	07/16/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	528	16.0	07/15/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2022	ND	168	84.1	200	15.8	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	177	88.4	200	14.7	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022						

Surrogate: 1-Chlorooctane 78.3 % 43-149

Surrogate: 1-Chlorooctadecane 92.6 % 42.5-161

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

**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.



---

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Apache

Project Manager: Bruce Baker

Address:

City: Hobbs

Phone #:

Project #:

Project Name:

Project Location:

Sampler Name:

FOR LAB USE ONLY

BILL TO

ANALYSIS REQUEST

P.O. #:

Company:

Attn:

Address:

City:

State: Zip:

Phone #:

Fax #:

Lab I.D.

Sample I.D.

HB3039

1

W26 BGS 0-20'

C1

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

DATE

TIME

CL

Ext TPH

BTEX

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.

Relinquished By:

Date: 7/13

Received By:

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

All Results are emailed. Please provide Email address:

REMARKS:

Bruce Baker, Caesar

Relinquished By:

Date: 7/13

Received By:

Verbal Result: ☐ Yes ☐ No

Add'l Phone #:

All Results are emailed. Please provide Email address:

REMARKS:

Bruce Baker, Caesar

Delivered By: (Circle One)

Observed Temp. °C

39

Sample Condition

CHECKED BY: (Initials)

Turnaround Time:

Standard

Rush

Bacteria (only)

Cool Intact

Observed Temp. °C

Corrected Temp. °C

Sampler - UPS - Bus - Other:

Corrected Temp. °C

33

Cool Intact

CHECKED BY: (Initials)

Turnaround Time:

Standard

Rush

Bacteria (only)

Cool Intact

Observed Temp. °C

Corrected Temp. °C

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



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

---

July 19, 2022

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: J R PHILLIPS #8

Enclosed are the results of analyses for samples received by the laboratory on 07/14/22 16:43.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	07/14/2022	Sampling Date:	07/14/2022
Reported:	07/19/2022	Sampling Type:	Soil
Project Name:	J R PHILLIPS #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MONUMENT, NM		

**Sample ID: B17 @ 20' (H223071-01)**

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	07/18/2022	ND	1.94	97.2	2.00	2.53	
Toluene*	<0.050	0.050	07/18/2022	ND	2.19	109	2.00	0.279	
Ethylbenzene*	<0.050	0.050	07/18/2022	ND	2.12	106	2.00	1.62	
Total Xylenes*	<0.150	0.150	07/18/2022	ND	6.77	113	6.00	1.01	
Total BTEX	<0.300	0.300	07/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	1790	16.0	07/18/2022	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	07/18/2022	ND	193	96.6	200	3.15	
DRO >C10-C28*	<10.0	10.0	07/18/2022	ND	178	89.1	200	0.112	
EXT DRO >C28-C36	<10.0	10.0	07/18/2022	ND					

Surrogate: 1-Chlorooctane 68.9 % 43-149

Surrogate: 1-Chlorooctadecane 70.2 % 42.5-161

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

**Analytical Results For:**

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

Received: 07/14/2022  
Reported: 07/19/2022  
Project Name: J R PHILLIPS #8  
Project Number: NONE GIVEN  
Project Location: MONUMENT, NM

Sampling Date: 07/14/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B18 @ 20' (H223071-02)**

BTX 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	07/18/2022	ND	1.94	97.2	2.00	2.53		
Toluene*	<0.050	0.050	07/18/2022	ND	2.19	109	2.00	0.279		
Ethylbenzene*	<0.050	0.050	07/18/2022	ND	2.12	106	2.00	1.62		
Total Xylenes*	<0.150	0.150	07/18/2022	ND	6.77	113	6.00	1.01		
Total BTX	<0.300	0.300	07/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	1890	16.0	07/18/2022	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	07/18/2022	ND	193	96.6	200	3.15	
DRO >C10-C28*	<10.0	10.0	07/18/2022	ND	178	89.1	200	0.112	
EXT DRO >C28-C36	<10.0	10.0	07/18/2022	ND					

Surrogate: 1-Chlorooctane 73.4 % 43-149

Surrogate: 1-Chlorooctadecane 75.8 % 42.5-161

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

**Analytical Results For:**

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

Received: 07/14/2022  
Reported: 07/19/2022  
Project Name: J R PHILLIPS #8  
Project Number: NONE GIVEN  
Project Location: MONUMENT, NM

Sampling Date: 07/14/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Tamara Oldaker

**Sample ID: B19 @ 20' (H223071-03)**

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	07/18/2022	ND	1.94	97.2	2.00	2.53	
Toluene*	<0.050	0.050	07/18/2022	ND	2.19	109	2.00	0.279	
Ethylbenzene*	<0.050	0.050	07/18/2022	ND	2.12	106	2.00	1.62	
Total Xylenes*	<0.150	0.150	07/18/2022	ND	6.77	113	6.00	1.01	
Total BTEx	<0.300	0.300	07/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	1550	16.0	07/18/2022	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	07/18/2022	ND	193	96.6	200	3.15	
DRO >C10-C28*	<10.0	10.0	07/18/2022	ND	178	89.1	200	0.112	
EXT DRO >C28-C36	<10.0	10.0	07/18/2022	ND					

Surrogate: 1-Chlorooctane 74.1 % 43-149

Surrogate: 1-Chlorooctadecane 78.1 % 42.5-161

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

**Analytical Results For:**

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

 Received: 07/14/2022  
 Reported: 07/19/2022  
 Project Name: J R PHILLIPS #8  
 Project Number: NONE GIVEN  
 Project Location: MONUMENT, NM

 Sampling Date: 07/14/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B20 @ 20' (H223071-04)**

BTX 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	07/18/2022	ND	1.94	97.2	2.00	2.53	
Toluene*	<0.050	0.050	07/18/2022	ND	2.19	109	2.00	0.279	
Ethylbenzene*	<0.050	0.050	07/18/2022	ND	2.12	106	2.00	1.62	
Total Xylenes*	<0.150	0.150	07/18/2022	ND	6.77	113	6.00	1.01	
Total BTX	<0.300	0.300	07/18/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	07/18/2022	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	07/18/2022	ND	193	96.6	200	3.15	
DRO >C10-C28*	<10.0	10.0	07/18/2022	ND	178	89.1	200	0.112	
EXT DRO >C28-C36	<10.0	10.0	07/18/2022	ND					

Surrogate: 1-Chlorooctane 98.6 % 43-149

Surrogate: 1-Chlorooctadecane 103 % 42.5-161

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

### 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

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



Page 7 of 7

<b>Company Name:</b> Apache							<b>BILL TO</b>							<b>ANALYSIS REQUEST</b>									
<b>Project Manager:</b> Bruce B.							<b>P.O. #:</b>																
<b>Address:</b>							<b>Company:</b>																
<b>City:</b> Hobbs							<b>Attn:</b>																
<b>State:</b> NM							<b>Address:</b>																
<b>Phone #:</b>							<b>City:</b>																
<b>Fax #:</b>							<b>State:</b>																
<b>Project #: </b>							<b>Zip:</b>																
<b>Project Name:</b>							<b>Phone #:</b>																
<b>Project Location:</b> J.R. Phillips #48							<b>Fax #:</b>																
<b>Sampler Name:</b> Joe Chusack Jr.																							
<b>FOR LAB USE ONLY</b>																							
<b>Lab I.D.</b>	<b>Sample I.D.</b>						<b>(G)RAB OR (C)OMP.</b>		<b># CONTAINERS</b>		<b>MATRIX</b>		<b>PRESERV.</b>		<b>SAMPLING</b>								
H223571																							
	R17	Q20'	C	1	7-14	8:08	/	/	/	CL													
	R18	Q20'	C	1	7-14	8:10	/	/	/	EXT TPH													
	R19	Q20'	C	1	7-14	8:12	/	/	/	BTEX													
	R20	Q20'	C	1	7-14	10:30	/	/	/														

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.

<b>Relinquished By:</b>		<b>Date:</b> 7-14	<b>Received By:</b>	<b>Verbal Result:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:
<b>Reinquinshed By:</b>		<b>Time:</b> 11:43	<b>Received By:</b>	<b>All Results are emailed. Please provide Email address:</b>
		<b>Date:</b>		<b>REMARKS:</b>
		<b>Time:</b>		

<b>Delivered By:</b> (Circle One)	<b>Observed Temp. °C</b> 4.4	<b>Sample Condition</b>	<b>CHECKED BY:</b> (Initials)	<b>Turnaround Time:</b>	<b>Standard</b> <input checked="" type="checkbox"/>	<b>Bacteria (only)</b> <input type="checkbox"/>	<b>Sample Condition</b>
<b>Sampler - UPS - Bus - Other:</b>	<b>Corrected Temp. °C</b> 4.0	<b>Cool Intact</b> <input type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> No			<b>Rush</b> <input type="checkbox"/>	<b>Cool Intact</b> <input type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> No	<b>Observed Temp. °C</b>
<b>FORM#006 R-3-Z 10/07/21</b>					<b>Tc. 7/14/22</b>	<b>Corrected Temp. °C</b>	



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

---

July 20, 2022

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: J R PHILLIPS #8

Enclosed are the results of analyses for samples received by the laboratory on 07/15/22 16:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	07/15/2022	Sampling Date:	07/15/2022
Reported:	07/20/2022	Sampling Type:	Soil
Project Name:	J R PHILLIPS #8	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	MONUMENT, NM		

**Sample ID: B21 @ 20' (H223102-01)**

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	07/18/2022	ND	2.06	103	2.00	8.65		
Toluene*	<0.050	0.050	07/18/2022	ND	2.10	105	2.00	9.00		
Ethylbenzene*	<0.050	0.050	07/18/2022	ND	2.13	107	2.00	9.40		
Total Xylenes*	<0.150	0.150	07/18/2022	ND	6.57	109	6.00	9.79		
Total BTEX	<0.300	0.300	07/18/2022	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1600	16.0	07/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2022	ND	194	96.9	200	1.02	
DRO >C10-C28*	<10.0	10.0	07/18/2022	ND	204	102	200	0.523	
EXT DRO >C28-C36	<10.0	10.0	07/18/2022	ND					

Surrogate: 1-Chlorooctane 69.5 % 43-149

Surrogate: 1-Chlorooctadecane 81.0 % 42.5-161

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

**Analytical Results For:**

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

 Received: 07/15/2022  
 Reported: 07/20/2022  
 Project Name: J R PHILLIPS #8  
 Project Number: NONE GIVEN  
 Project Location: MONUMENT, NM

 Sampling Date: 07/15/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: B22 @ 20' (H223102-02)**

BTX 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	07/18/2022	ND	2.06	103	2.00	8.65	
Toluene*	<0.050	0.050	07/18/2022	ND	2.10	105	2.00	9.00	
Ethylbenzene*	<0.050	0.050	07/18/2022	ND	2.13	107	2.00	9.40	
Total Xylenes*	<0.150	0.150	07/18/2022	ND	6.57	109	6.00	9.79	
Total BTX	<0.300	0.300	07/18/2022	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	07/18/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2022	ND	194	96.9	200	1.02	
DRO >C10-C28*	43.9	10.0	07/18/2022	ND	204	102	200	0.523	
EXT DRO >C28-C36	<10.0	10.0	07/18/2022	ND					

Surrogate: 1-Chlorooctane 72.0 % 43-149

Surrogate: 1-Chlorooctadecane 82.5 % 42.5-161

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

**Analytical Results For:**

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

Received: 07/15/2022  
Reported: 07/20/2022  
Project Name: J R PHILLIPS #8  
Project Number: NONE GIVEN  
Project Location: MONUMENT, NM

Sampling Date: 07/15/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: B23 @ 20' (H223102-03)**

BTX 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	07/18/2022	ND	2.06	103	2.00	8.65		
Toluene*	<0.050	0.050	07/18/2022	ND	2.10	105	2.00	9.00		
Ethylbenzene*	<0.050	0.050	07/18/2022	ND	2.13	107	2.00	9.40		
Total Xylenes*	<0.150	0.150	07/18/2022	ND	6.57	109	6.00	9.79		
Total BTX	<0.300	0.300	07/18/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	07/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2022	ND	194	96.9	200	1.02	
DRO >C10-C28*	<10.0	10.0	07/18/2022	ND	204	102	200	0.523	
EXT DRO >C28-C36	<10.0	10.0	07/18/2022	ND					

Surrogate: 1-Chlorooctane 75.7 % 43-149

Surrogate: 1-Chlorooctadecane 87.7 % 42.5-161

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

**Analytical Results For:**

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

Received: 07/15/2022  
Reported: 07/20/2022  
Project Name: J R PHILLIPS #8  
Project Number: NONE GIVEN  
Project Location: MONUMENT, NM

Sampling Date: 07/15/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: B24 @ 20' (H223102-04)**

BTX 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	07/18/2022	ND	2.06	103	2.00	8.65	
Toluene*	<0.050	0.050	07/18/2022	ND	2.10	105	2.00	9.00	
Ethylbenzene*	<0.050	0.050	07/18/2022	ND	2.13	107	2.00	9.40	
Total Xylenes*	<0.150	0.150	07/18/2022	ND	6.57	109	6.00	9.79	
Total BTX	<0.300	0.300	07/18/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	07/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2022	ND	194	96.9	200	1.02	
DRO >C10-C28*	<10.0	10.0	07/18/2022	ND	204	102	200	0.523	
EXT DRO >C28-C36	<10.0	10.0	07/18/2022	ND					

Surrogate: 1-Chlorooctane 74.3 % 43-149

Surrogate: 1-Chlorooctadecane 85.1 % 42.5-161

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

**Analytical Results For:**

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

Received: 07/15/2022  
Reported: 07/20/2022  
Project Name: J R PHILLIPS #8  
Project Number: NONE GIVEN  
Project Location: MONUMENT, NM

Sampling Date: 07/15/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: B25 @ 20' (H223102-05)**

BTX 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	07/18/2022	ND	2.06	103	2.00	8.65	
Toluene*	<0.050	0.050	07/18/2022	ND	2.10	105	2.00	9.00	
Ethylbenzene*	<0.050	0.050	07/18/2022	ND	2.13	107	2.00	9.40	
Total Xylenes*	<0.150	0.150	07/18/2022	ND	6.57	109	6.00	9.79	
Total BTX	<0.300	0.300	07/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	1180	16.0	07/18/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2022	ND	194	96.9	200	1.02	
DRO >C10-C28*	<10.0	10.0	07/18/2022	ND	204	102	200	0.523	
EXT DRO >C28-C36	<10.0	10.0	07/18/2022	ND					

Surrogate: 1-Chlorooctane 87.4 % 43-149

Surrogate: 1-Chlorooctadecane 99.5 % 42.5-161

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

**Analytical Results For:**

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

Received: 07/15/2022  
Reported: 07/20/2022  
Project Name: J R PHILLIPS #8  
Project Number: NONE GIVEN  
Project Location: MONUMENT, NM

Sampling Date: 07/15/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: B26 @ 20' (H223102-06)**

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	07/18/2022	ND	2.06	103	2.00	8.65		
Toluene*	<0.050	0.050	07/18/2022	ND	2.10	105	2.00	9.00		
Ethylbenzene*	<0.050	0.050	07/18/2022	ND	2.13	107	2.00	9.40		
Total Xylenes*	<0.150	0.150	07/18/2022	ND	6.57	109	6.00	9.79		
Total BTEx	<0.300	0.300	07/18/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	1070	16.0	07/19/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2022	ND	194	96.9	200	1.02	
DRO >C10-C28*	11.6	10.0	07/18/2022	ND	204	102	200	0.523	
EXT DRO >C28-C36	<10.0	10.0	07/18/2022	ND					

Surrogate: 1-Chlorooctane 83.3 % 43-149

Surrogate: 1-Chlorooctadecane 93.1 % 42.5-161

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

**Analytical Results For:**

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

Received: 07/15/2022  
Reported: 07/20/2022  
Project Name: J R PHILLIPS #8  
Project Number: NONE GIVEN  
Project Location: MONUMENT, NM

Sampling Date: 07/15/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: B27 @ 20' (H223102-07)**

BTX 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	07/18/2022	ND	2.06	103	2.00	8.65	
Toluene*	<0.050	0.050	07/18/2022	ND	2.10	105	2.00	9.00	
Ethylbenzene*	<0.050	0.050	07/18/2022	ND	2.13	107	2.00	9.40	
Total Xylenes*	<0.150	0.150	07/18/2022	ND	6.57	109	6.00	9.79	
Total BTX	<0.300	0.300	07/18/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	07/19/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2022	ND	194	96.9	200	1.02	
DRO >C10-C28*	<10.0	10.0	07/18/2022	ND	204	102	200	0.523	
EXT DRO >C28-C36	<10.0	10.0	07/18/2022	ND					

Surrogate: 1-Chlorooctane 73.8 % 43-149

Surrogate: 1-Chlorooctadecane 81.4 % 42.5-161

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

**Analytical Results For:**

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

Received: 07/15/2022  
Reported: 07/20/2022  
Project Name: J R PHILLIPS #8  
Project Number: NONE GIVEN  
Project Location: MONUMENT, NM

Sampling Date: 07/15/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: B28 @ 20' (H223102-08)**

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	07/18/2022	ND	2.06	103	2.00	8.65	
Toluene*	<0.050	0.050	07/18/2022	ND	2.10	105	2.00	9.00	
Ethylbenzene*	<0.050	0.050	07/18/2022	ND	2.13	107	2.00	9.40	
Total Xylenes*	<0.150	0.150	07/18/2022	ND	6.57	109	6.00	9.79	
Total BTEX	<0.300	0.300	07/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	800	16.0	07/19/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2022	ND	194	96.9	200	1.02	
DRO >C10-C28*	<10.0	10.0	07/18/2022	ND	204	102	200	0.523	
EXT DRO >C28-C36	<10.0	10.0	07/18/2022	ND					

Surrogate: 1-Chlorooctane 75.6 % 43-149

Surrogate: 1-Chlorooctadecane 85.8 % 42.5-161

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

**Analytical Results For:**

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

Received: 07/15/2022  
Reported: 07/20/2022  
Project Name: J R PHILLIPS #8  
Project Number: NONE GIVEN  
Project Location: MONUMENT, NM

Sampling Date: 07/15/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: B29 @ 20' (H223102-09)**

BTX 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	07/18/2022	ND	2.06	103	2.00	8.65	
Toluene*	<0.050	0.050	07/18/2022	ND	2.10	105	2.00	9.00	
Ethylbenzene*	<0.050	0.050	07/18/2022	ND	2.13	107	2.00	9.40	
Total Xylenes*	<0.150	0.150	07/18/2022	ND	6.57	109	6.00	9.79	
Total BTX	<0.300	0.300	07/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	608	16.0	07/19/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2022	ND	194	96.9	200	1.02	
DRO >C10-C28*	<10.0	10.0	07/18/2022	ND	204	102	200	0.523	
EXT DRO >C28-C36	<10.0	10.0	07/18/2022	ND					

Surrogate: 1-Chlorooctane 76.9 % 43-149

Surrogate: 1-Chlorooctadecane 85.9 % 42.5-161

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

**Analytical Results For:**

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

Received: 07/15/2022  
Reported: 07/20/2022  
Project Name: J R PHILLIPS #8  
Project Number: NONE GIVEN  
Project Location: MONUMENT, NM

Sampling Date: 07/15/2022  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Shalyn Rodriguez

**Sample ID: B30 @ 20' (H223102-10)**

BTX 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	07/19/2022	ND	2.06	103	2.00	8.65	
Toluene*	<0.050	0.050	07/19/2022	ND	2.10	105	2.00	9.00	
Ethylbenzene*	<0.050	0.050	07/19/2022	ND	2.13	107	2.00	9.40	
Total Xylenes*	<0.150	0.150	07/19/2022	ND	6.57	109	6.00	9.79	
Total BTX	<0.300	0.300	07/19/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	07/19/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2022	ND	194	96.9	200	1.02	
DRO >C10-C28*	<10.0	10.0	07/18/2022	ND	204	102	200	0.523	
EXT DRO >C28-C36	<10.0	10.0	07/18/2022	ND					

Surrogate: 1-Chlorooctane 72.5 % 43-149

Surrogate: 1-Chlorooctadecane 81.8 % 42.5-161

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

**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.



---

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: <b>Apache</b>		P.O. #:		BILL TO										ANALYSIS REQUEST									
Project Manager: <b>Bruce B.</b>		Company:																					
Address:		Attn:																					
City: <b>Hobbs</b>		Address:																					
State: <b>NM</b>		City:																					
Zip: <b>88240</b>		State:																					
Phone #:		Fax #:																					
Project #:		Project Owner:																					
Project Location: <b>JR Phillips #8</b>		City:																					
Sampler Name: <b>Joe Quasada Jr.</b>		Phone #:																					
Fax #:		Zip:																					
FOR LAB USE ONLY		PRESERV																					
Lab I.D.		SAMPLE																					
Sample I.D.		DATE																					
H223106		TIME																					
1		CL																					
2		Ext TPH																					
3		BTEX																					
4																							
5																							
6																							
7																							
8																							
9																							
10																							
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.																							
Relinquished By: <b>Joe Quasada Jr.</b>		Received By: <b>Schoddiquest</b>																					
Date: <b>7/15</b>		Time: <b>11:40</b>																					
Date: <b>7/15</b>		Time: <b>11:40</b>																					
Time:		Received By: <b>Bruce B.</b>																					
Delivered By: (Circle One)		Observed Temp. °C: <b>27.0</b>																					
Corrected Temp. °C: <b>21.0</b>		Sample Condition																					
Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		CHECKED BY: <b>SR</b>																					
Sampler - UPS - Bus - Other:		Turnaround Time:																					
		Thermometer ID #113																					
		Correction Factor -0.6°C																					
		Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>																					
		Bacteria (only) <input type="checkbox"/>																					
		Cool Intact <input type="checkbox"/>																					
		Yes <input type="checkbox"/> No <input type="checkbox"/>																					
		Sample Condition																					
		Observed Temp. °C																					
		Corrected Temp. °C																					

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