



303 Veterans Airpark Lane Midland, TX 79705

## **Closure Report**

June 9, 2022

Re: Black and Tan 301H

Case: nAPP2125731884

On 9/5/2021 a release occurred due to a hole in a 2 -inch Kimray valve. The release (GPS: 32.537448, -103.554493) is located west of Monument, New Mexico in unit letter M section 27 township 20S range 34E. A groundwater survey was conducted utilizing NMOSE wells of record. The nearest well of record drillers log suggest that groundwater in the area is greater than 100 feet.

The release area was excavated in accordance with the OCD approved remediation plan to depths of 1 to 3 feet. On 3/24/2022 final 5-point composite bottom and wall samples were collected in accordance with the OCD approved remediation plan and all samples were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Laboratory analysis for B4 were above reclamation standards for chloride. B4 was further excavated to 3 feet. On 4/20/2022 final 5-point composite bottom and wall samples were collected in accordance with the OCD approved remediation plan and submitted to a commercial laboratory for analysis. All excavated soil was hauled to an OCD approved disposal facility. The pasture area was backfilled with clean imported topsoil to ground surface and contoured to the surrounding area. The pad area was backfilled with clean imported caliche and the pad restored. The pasture will be seeded in accordance with the surface landowner guidelines.

Apache Corporation has completed remediation the release to below table one standards and respectfully request that event nAPP2125731884 be closed.

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

Submitted by;

*Bruce Baker*

**Environmental Technician**

[larry.baker@apachecorp.com](mailto:larry.baker@apachecorp.com)

**Cell# 432-215-2284**

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. Staff

Signature: Larry Baker

Date: 6/9/2022

email: larry.baker@apachecorp.com

Telephone: 432-215-2284

**OCD Only**

Received by: \_\_\_\_\_

Date: \_\_\_\_\_

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

Closure Approved by: Jennifer Nobui

Date: 06/14/2022

Printed Name: Jennifer Nobui

Title: Environmental Specialist A

**From:** [OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us) <[OCDOnline@state.nm.us](mailto:OCDOnline@state.nm.us)>  
*Received by OCD: 6/13/2022 3:29:47 PM*  
**Sent:** Wednesday, December 29, 2021 12:10 PM  
**To:** Baker, Larry <[Larry.Baker@apachecorp.com](mailto:Larry.Baker@apachecorp.com)>  
**Subject:** [EXTERNAL] The Oil Conservation Division (OCD) has approved the application, Application ID: 64833

To whom it may concern (c/o Larry Baker for APACHE CORPORATION),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2125731884, with the following conditions:

- **None**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.


Thank you,  
Chad Hensley  
Environmental Science & Specialist  
575-703-1723  
[Chad.Hensley@state.nm.us](mailto:Chad.Hensley@state.nm.us)

**New Mexico Energy, Minerals and Natural Resources Department**  
1220 South St. Francis Drive  
Santa Fe, NM 87505  
*Released to Imaging: 6/14/2022 11:33:14 AM*

RE: [EXTERNAL] The Oil Conservation Division (OCD) has approved the application, Application ID: 64833



Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>

To  Baker, Larry

 Reply

 Reply All

 Forward



Tue 3/22/2022 4:16 PM

Mr. Baker,

Extension to 04/29/2022 is approved.

NOTE: The OCD requires a copy of all correspondence relative to remedial projects be included in all proposal and/or final closure reports. Correspondence required to be included in reports may include, but not necessarily limited to, extension requests, liner inspection notifications, sample event notifications, spill/release/fire notifications, and variance requests. This will allow for notifications and requests to become a documented part of the incident file.

**Chad Hensley** • Environmental Science & Specialist

Environmental Bureau  
EMNRD - Oil Conservation Division  
811 First St. | Artesia, NM 88210  
Office: 575.748.1283 | Cell: 575-703-1723  
[chad.hensley@state.nm.us](mailto:chad.hensley@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>



**From:** Baker, Larry <[Larry.Baker@apachecorp.com](mailto:Larry.Baker@apachecorp.com)>

**Sent:** Tuesday, March 22, 2022 1:03 PM

**To:** Hensley, Chad, EMNRD <[Chad.Hensley@state.nm.us](mailto:Chad.Hensley@state.nm.us)>

**Subject:** FW: [EXTERNAL] The Oil Conservation Division (OCD) has approved the application, Application ID: 64833

Mr. Hensley,

Apache Corporation would like to begin final sampling in accordance with the approve remediation plan at the Black and Tan 301H (nAPP2125731884) on Thursday 3/24/2022 at 1:30 PM MST. Also we had issue getting the AFE approved internally and would like to request a 30 day extension to complete the remediation and submit the closure report. Please let me know if you have any questions or wish to discuss. Thanks and have a good day.

**BRUCE BAKER**

ENVIRONMENTAL TECHNICIAN SR  
direct 432-818-1654 | Cell 432-215-2284

APACHE CORPORATION

303 Veterans Airpark Lane  
Midland, TX 79705

[ApacheCorp.com](http://ApacheCorp.com) | [LinkedIn](#) | [Facebook](#) | [Twitter](#) | [StockTwits](#) | [YouTube](#)







Sample Date	Sample ID	Depth	Chloride Lab	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO
3/24/2022	B1	3'	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
3/24/2022	B2	1'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	44.1	19.1
3/24/2022	B3	3'	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
3/24/2022	B4	1'	224	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	177	37.1
4/20/2022	B4	3'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
3/24/2022	B5	3'	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
3/24/2022	B6	3'	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
3/25/2022	B7	1'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
3/25/2022	B8	1'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
3/25/2022	B9	1'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
3/25/2022	B10	1'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
4/20/2022	B11	1'	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	10.9	<10.0
4/20/2022	B12	1'	176	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	43.0	<10.0
3/24/2022	W1	0-3'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
3/24/2022	W2	0-1'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
3/24/2022	W3	0-1'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	17.6	<10.0
3/24/2022	W4	0-3'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
3/24/2022	W5	0-3'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	15.5	<10.0
3/24/2022	W6	0-3'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
3/24/2022	W7	0-3'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	12.0	<10.0
3/24/2022	W8	0-1'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
3/24/2022	W9	0-1'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
3/24/2022	W10	0-3'	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
3/24/2022	W11	0-3'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
3/24/2022	W12	0-3'	96	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	44.9	<10.0
3/24/2022	W13	0-3'	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
3/25/2022	W14	0-1'	112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	22.6	<10.0
3/25/2022	W15	0-1'	144	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
3/25/2022	W16	0-1'	96	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
4/20/2022	W17	0-1'	288.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0

Apaches Blue & Tan 301 H Lee County  
Bottoms GFB Points.

B1	@ 3'	32.5377112	-103.5529406
B2	@ 1'	32.5376063	-103.5530630
B3	@ 3'	32.5377352	-103.5532638
B4	@ 1'	32.5378861	-103.5533624
B5	@ 3'	32.5379424	-103.5535039
B6	@ 3'	32.5380009	-103.5536052
B7	@ 1'	32.5380153	-103.5537671
B8	@ 1'	32.53879746	-103.5539371
B9	@ 1'	32.5379658	-103.5540641
B10	@ 1'	32.5379740	-103.5541299



Apache Black & Tan 301H Lee County

Wells GPS Points

W1	BGS	0-3'	32.5376422	-103.5529551
W2	BGS	0-1'	32.5376168	-103.5530117
W3	BGS	0-1'	32.5376317	-103.5530238
W4	BGS	0-3'	32.5376309	-103.5531881
W5	BGS	0-3'	32.5376447	-103.5531790
W6	BGS	0-3'	32.5377739	-103.5532873
W7	BGS	0-3'	32.5377852	-103.5532746
W8	BGS	0-1'	32.5378067	-103.5533570
W9	BGS	0-1'	32.5379022	-103.5533520
W10	BGS	0-3'	<del>32</del> 32.5379378	-103.5535197
W11	BGS	0-3'	32.5379528	-103.5535036
W12	BGS	0-3'	32.5380331	-103.55336494
W13	BGS	0-3'	32.5380464	-103.5536427
W14	BGS	0-1'	32.5379579	-103.5539669
W15	BGS	0-1'	32.5379859	-103.5539062
W16	BGS	0-1'	32.5379958	-103.5539478





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

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March 29, 2022

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: BLACK & TAN 301H

Enclosed are the results of analyses for samples received by the laboratory on 03/24/22 16:51.

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](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





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:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/29/2022	Sampling Type:	Soil
Project Name:	BLACK & TAN 301H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

**Sample ID: B 1 @ 3' (H221173-01)**

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	03/27/2022	ND	1.88	94.2	2.00	12.8	
Toluene*	<0.050	0.050	03/27/2022	ND	2.10	105	2.00	11.8	
Ethylbenzene*	<0.050	0.050	03/27/2022	ND	2.22	111	2.00	12.6	
Total Xylenes*	<0.150	0.150	03/27/2022	ND	6.88	115	6.00	12.5	
Total BTEx	<0.300	0.300	03/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	03/28/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	186	92.9	200	2.12	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	178	88.9	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 92.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.6 % 59.5-142

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





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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: 03/24/2022  
 Reported: 03/29/2022  
 Project Name: BLACK & TAN 301H  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 03/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: B 2 @ 1' (H221173-02)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/27/2022	ND	1.88	94.2	2.00	12.8	
Toluene*	<0.050	0.050	03/27/2022	ND	2.10	105	2.00	11.8	
Ethylbenzene*	<0.050	0.050	03/27/2022	ND	2.22	111	2.00	12.6	
Total Xylenes*	<0.150	0.150	03/27/2022	ND	6.88	115	6.00	12.5	
Total BTX	<0.300	0.300	03/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	32.0	16.0	03/28/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	186	92.9	200	2.12	
DRO >C10-C28*	44.1	10.0	03/28/2022	ND	178	88.9	200	3.95	
EXT DRO >C28-C36	19.1	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 97.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 03/24/2022  
 Reported: 03/29/2022  
 Project Name: BLACK & TAN 301H  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 03/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: B 3 @ 3' (H221173-03)**

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	03/27/2022	ND	1.88	94.2	2.00	12.8		
Toluene*	<0.050	0.050	03/27/2022	ND	2.10	105	2.00	11.8		
Ethylbenzene*	<0.050	0.050	03/27/2022	ND	2.22	111	2.00	12.6		
Total Xylenes*	<0.150	0.150	03/27/2022	ND	6.88	115	6.00	12.5		
Total BTEx	<0.300	0.300	03/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	64.0	16.0	03/28/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	186	92.9	200	2.12	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	178	88.9	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 102 % 66.9-136

Surrogate: 1-Chlorooctadecane 109 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 03/24/2022  
 Reported: 03/29/2022  
 Project Name: BLACK & TAN 301H  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 03/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: B 4 @ 1' (H221173-04)**

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	03/27/2022	ND	1.88	94.2	2.00	12.8		
Toluene*	<0.050	0.050	03/27/2022	ND	2.10	105	2.00	11.8		
Ethylbenzene*	<0.050	0.050	03/27/2022	ND	2.22	111	2.00	12.6		
Total Xylenes*	<0.150	0.150	03/27/2022	ND	6.88	115	6.00	12.5		
Total BTEx	<0.300	0.300	03/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	03/28/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	186	92.9	200	2.12	
DRO >C10-C28*	177	10.0	03/28/2022	ND	178	88.9	200	3.95	
EXT DRO >C28-C36	37.1	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 101 % 66.9-136

Surrogate: 1-Chlorooctadecane 110 % 59.5-142

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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: 03/24/2022  
 Reported: 03/29/2022  
 Project Name: BLACK & TAN 301H  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 03/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: B 5 @ 3' (H221173-05)**

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	03/27/2022	ND	1.88	94.2	2.00	12.8		
Toluene*	<0.050	0.050	03/27/2022	ND	2.10	105	2.00	11.8		
Ethylbenzene*	<0.050	0.050	03/27/2022	ND	2.22	111	2.00	12.6		
Total Xylenes*	<0.150	0.150	03/27/2022	ND	6.88	115	6.00	12.5		
Total BTEX	<0.300	0.300	03/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/28/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	186	92.9	200	2.12	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	178	88.9	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 112 % 59.5-142

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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: 03/24/2022  
 Reported: 03/29/2022  
 Project Name: BLACK & TAN 301H  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 03/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: B 6 @ 3' (H221173-06)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2022	ND	1.79	89.3	2.00	2.77	
Toluene*	<0.050	0.050	03/28/2022	ND	2.00	100	2.00	3.08	
Ethylbenzene*	<0.050	0.050	03/28/2022	ND	2.11	106	2.00	2.54	
Total Xylenes*	<0.150	0.150	03/28/2022	ND	6.57	109	6.00	2.55	
Total BTX	<0.300	0.300	03/28/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/28/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2022	ND	186	92.9	200	2.12	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	178	88.9	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 106 % 66.9-136

Surrogate: 1-Chlorooctadecane 113 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

---

Celey D. Keene, Lab Director/Quality Manager



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Apurba</u>		P.O. #:		BILL TO				ANALYSIS REQUEST					
Project Manager: <u>Rene B.</u>		Company:											
Address:		Attn:											
City:		Address:											
Phone #:		State:											
Fax #:		City:											
Project #:		State:											
Project Owner:		Zip:											
Project Location: <u>Bluff 3 Tan 2014</u>		Phone #:											
Sample Name: <u>Joe Quaple</u>		Fax #:											
FOR LAB USE ONLY													
Lab I.D. <u>A221173</u>		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING	
1 <u>B1 @ 3'</u>				C		1		X		3/24 3:45		X	
2 <u>B2 @ 1'</u>										3:46		X	
3 <u>B3 @ 1' @ 3'</u>										3:47		X	
4 <u>B4 @ 1'</u>										3:48		X	
5 <u>B5 @ 3'</u>										3:49		X	
6 <u>B6 @ 3'</u>										3:50		X	
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Relinquished By: <u>Joe Quaple</u>		Date: <u>3/24/22</u>		Received By: <u>Joe Quaple</u>		Date: <u>3/24/22</u>		Time: <u>1:51</u>		Received By: <u>Joe Quaple</u>		Time: <u>1:51</u>	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C: <u>2.46</u>		Corrected Temp. °C: <u>2.18</u>		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: <u>SK</u>		Turnaround Time: <u>Standard</u>		Bacteria (only) Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
FORM 006 REV 2/10/07/21		† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com											





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

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March 31, 2022

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: BLACK & TAN 301H

Enclosed are the results of analyses for samples received by the laboratory on 03/25/22 16:40.

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](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



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: 03/25/2022  
 Reported: 03/31/2022  
 Project Name: BLACK & TAN 301H  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 03/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 7 @ 1' (H221206-01)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/30/2022	ND	2.03	102	2.00	7.29	
Toluene*	<0.050	0.050	03/30/2022	ND	2.00	100	2.00	8.40	
Ethylbenzene*	<0.050	0.050	03/30/2022	ND	1.99	99.6	2.00	7.91	
Total Xylenes*	<0.150	0.150	03/30/2022	ND	6.13	102	6.00	8.33	
Total BTX	<0.300	0.300	03/30/2022	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	32.0	16.0	03/30/2022	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	03/29/2022	ND	223	112	200	1.62	
DRO >C10-C28*	<10.0	10.0	03/29/2022	ND	241	120	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	03/29/2022	ND					

Surrogate: 1-Chlorooctane 91.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 95.6 % 59.5-142

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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: 03/25/2022  
 Reported: 03/31/2022  
 Project Name: BLACK & TAN 301H  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 03/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 8 @ 1' (H221206-02)**

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	03/30/2022	ND	2.03	102	2.00	7.29		
Toluene*	<0.050	0.050	03/30/2022	ND	2.00	100	2.00	8.40		
Ethylbenzene*	<0.050	0.050	03/30/2022	ND	1.99	99.6	2.00	7.91		
Total Xylenes*	<0.150	0.150	03/30/2022	ND	6.13	102	6.00	8.33		
Total BTEx	<0.300	0.300	03/30/2022	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	48.0	16.0	03/30/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2022	ND	223	112	200	1.62	
DRO >C10-C28*	<10.0	10.0	03/29/2022	ND	241	120	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	03/29/2022	ND					

Surrogate: 1-Chlorooctane 88.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.2 % 59.5-142

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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: 03/25/2022  
 Reported: 03/31/2022  
 Project Name: BLACK & TAN 301H  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 03/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 9 @ 1' (H221206-03)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/30/2022	ND	2.03	102	2.00	7.29	
Toluene*	<0.050	0.050	03/30/2022	ND	2.00	100	2.00	8.40	
Ethylbenzene*	<0.050	0.050	03/30/2022	ND	1.99	99.6	2.00	7.91	
Total Xylenes*	<0.150	0.150	03/30/2022	ND	6.13	102	6.00	8.33	
Total BTX	<0.300	0.300	03/30/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/30/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2022	ND	223	112	200	1.62	
DRO >C10-C28*	<10.0	10.0	03/29/2022	ND	241	120	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	03/29/2022	ND					

Surrogate: 1-Chlorooctane 95.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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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: 03/25/2022  
 Reported: 03/31/2022  
 Project Name: BLACK & TAN 301H  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 03/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 10 @ 1' (H221206-04)**

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	03/30/2022	ND	2.03	102	2.00	7.29	
Toluene*	<0.050	0.050	03/30/2022	ND	2.00	100	2.00	8.40	
Ethylbenzene*	<0.050	0.050	03/30/2022	ND	1.99	99.6	2.00	7.91	
Total Xylenes*	<0.150	0.150	03/30/2022	ND	6.13	102	6.00	8.33	
Total BTEx	<0.300	0.300	03/30/2022	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	32.0	16.0	03/30/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2022	ND	223	112	200	1.62	
DRO >C10-C28*	<10.0	10.0	03/29/2022	ND	241	120	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	03/29/2022	ND					

Surrogate: 1-Chlorooctane 97.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 106 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

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### Notes and Definitions

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

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

---

Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

+ Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinalabbeynm.com](mailto:celey.keene@cardinalabbeynm.com)





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

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March 29, 2022

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: BLACK & TAN 301H

Enclosed are the results of analyses for samples received by the laboratory on 03/24/22 16:51.

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](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



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:	03/24/2022	Sampling Date:	03/24/2022
Reported:	03/29/2022	Sampling Type:	Soil
Project Name:	BLACK & TAN 301H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

**Sample ID: W 1 BGS 0-3' (H221172-01)**

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	03/26/2022	ND	1.88	94.2	2.00	12.8	
Toluene*	<0.050	0.050	03/26/2022	ND	2.10	105	2.00	11.8	
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.22	111	2.00	12.6	
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.88	115	6.00	12.5	
Total BTEX	<0.300	0.300	03/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	48.0	16.0	03/28/2022	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	03/28/2022	ND	185	92.4	200	6.75	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	177	88.4	200	6.39	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 75.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 74.2 % 59.5-142

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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: 03/24/2022  
 Reported: 03/29/2022  
 Project Name: BLACK & TAN 301H  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 03/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: W 2 BGS 0-1' (H221172-02)**

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	03/26/2022	ND	1.88	94.2	2.00	12.8		
Toluene*	<0.050	0.050	03/26/2022	ND	2.10	105	2.00	11.8		
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.22	111	2.00	12.6		
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.88	115	6.00	12.5		
Total BTEx	<0.300	0.300	03/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	32.0	16.0	03/28/2022	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	03/28/2022	ND	185	92.4	200	6.75	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	177	88.4	200	6.39	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 77.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 76.3 % 59.5-142

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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: 03/24/2022  
 Reported: 03/29/2022  
 Project Name: BLACK & TAN 301H  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 03/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: W 3 BGS 0-1' (H221172-03)**

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	03/26/2022	ND	1.88	94.2	2.00	12.8		
Toluene*	<0.050	0.050	03/26/2022	ND	2.10	105	2.00	11.8		
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.22	111	2.00	12.6		
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.88	115	6.00	12.5		
Total BTEx	<0.300	0.300	03/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	03/28/2022	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	03/28/2022	ND	185	92.4	200	6.75	
DRO >C10-C28*	17.6	10.0	03/28/2022	ND	177	88.4	200	6.39	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 88.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.1 % 59.5-142

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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: 03/24/2022  
 Reported: 03/29/2022  
 Project Name: BLACK & TAN 301H  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 03/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: W 4 BGS 0-3' (H221172-04)**

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	03/26/2022	ND	1.88	94.2	2.00	12.8		
Toluene*	<0.050	0.050	03/26/2022	ND	2.10	105	2.00	11.8		
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.22	111	2.00	12.6		
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.88	115	6.00	12.5		
Total BTEx	<0.300	0.300	03/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	03/28/2022	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	03/28/2022	ND	186	92.9	200	2.12	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	178	88.9	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 89.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.9 % 59.5-142

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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: 03/24/2022  
 Reported: 03/29/2022  
 Project Name: BLACK & TAN 301H  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 03/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: W 5 BGS 0-3' (H221172-05)**

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	03/26/2022	ND	1.88	94.2	2.00	12.8		
Toluene*	<0.050	0.050	03/26/2022	ND	2.10	105	2.00	11.8		
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.22	111	2.00	12.6		
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.88	115	6.00	12.5		
Total BTEx	<0.300	0.300	03/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	32.0	16.0	03/28/2022	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	03/28/2022	ND	186	92.9	200	2.12	
DRO >C10-C28*	15.5	10.0	03/28/2022	ND	178	88.9	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 93.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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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: 03/24/2022  
 Reported: 03/29/2022  
 Project Name: BLACK & TAN 301H  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 03/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: W 6 BGS 0-3' (H221172-06)**

BTX 8021B			mg/kg							
			Analyzed By: MS\							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2022	ND	1.88	94.2	2.00	12.8		
Toluene*	<0.050	0.050	03/26/2022	ND	2.10	105	2.00	11.8		
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.22	111	2.00	12.6		
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.88	115	6.00	12.5		
Total BTX	<0.300	0.300	03/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/28/2022	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	03/28/2022	ND	186	92.9	200	2.12		
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	178	88.9	200	3.95		
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND						

Surrogate: 1-Chlorooctane 94.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.2 % 59.5-142

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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: 03/24/2022  
 Reported: 03/29/2022  
 Project Name: BLACK & TAN 301H  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 03/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: W 7 BGS 0-3' (H221172-07)**

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	03/26/2022	ND	1.88	94.2	2.00	12.8	
Toluene*	<0.050	0.050	03/26/2022	ND	2.10	105	2.00	11.8	
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.22	111	2.00	12.6	
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.88	115	6.00	12.5	
Total BTEx	<0.300	0.300	03/26/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/28/2022	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	03/28/2022	ND	186	92.9	200	2.12	
DRO >C10-C28*	12.0	10.0	03/28/2022	ND	178	88.9	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 96.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

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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: 03/24/2022  
 Reported: 03/29/2022  
 Project Name: BLACK & TAN 301H  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 03/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: W 8 BGS 0-1' (H221172-08)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2022	ND	1.88	94.2	2.00	12.8	
Toluene*	<0.050	0.050	03/26/2022	ND	2.10	105	2.00	11.8	
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.22	111	2.00	12.6	
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.88	115	6.00	12.5	
Total BTX	<0.300	0.300	03/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/28/2022	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	03/28/2022	ND	186	92.9	200	2.12	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	178	88.9	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 90.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.6 % 59.5-142

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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: 03/24/2022  
 Reported: 03/29/2022  
 Project Name: BLACK & TAN 301H  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 03/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: W 9 BGS 0-1' (H221172-09)**

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	03/26/2022	ND	1.88	94.2	2.00	12.8		
Toluene*	<0.050	0.050	03/26/2022	ND	2.10	105	2.00	11.8		
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.22	111	2.00	12.6		
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.88	115	6.00	12.5		
Total BTEX	<0.300	0.300	03/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	48.0	16.0	03/28/2022	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	03/28/2022	ND	186	92.9	200	2.12	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	178	88.9	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 99.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 104 % 59.5-142

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: 03/24/2022  
 Reported: 03/29/2022  
 Project Name: BLACK & TAN 301H  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 03/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: W 10 BGS 0-3' (H221172-10)**

BTX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/26/2022	ND	1.88	94.2	2.00	12.8	
Toluene*	<0.050	0.050	03/26/2022	ND	2.10	105	2.00	11.8	
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.22	111	2.00	12.6	
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.88	115	6.00	12.5	
Total BTX	<0.300	0.300	03/26/2022	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/28/2022	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	03/28/2022	ND	186	92.9	200	2.12	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	178	88.9	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 95.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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: 03/24/2022  
 Reported: 03/29/2022  
 Project Name: BLACK & TAN 301H  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 03/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: W 11 BGS 0-3' (H221172-11)**

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2022	ND	1.88	94.2	2.00	12.8		
Toluene*	<0.050	0.050	03/26/2022	ND	2.10	105	2.00	11.8		
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.22	111	2.00	12.6		
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.88	115	6.00	12.5		
Total BTX	<0.300	0.300	03/26/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/28/2022	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	03/28/2022	ND	186	92.9	200	2.12	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	178	88.9	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 93.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.7 % 59.5-142

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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: 03/24/2022  
 Reported: 03/29/2022  
 Project Name: BLACK & TAN 301H  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 03/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: W 12 BGS 0-3' (H221172-12)**

BTX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/26/2022	ND	1.88	94.2	2.00	12.8		
Toluene*	<0.050	0.050	03/26/2022	ND	2.10	105	2.00	11.8		
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.22	111	2.00	12.6		
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.88	115	6.00	12.5		
Total BTX	<0.300	0.300	03/26/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	03/28/2022	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	03/28/2022	ND	186	92.9	200	2.12	
DRO >C10-C28*	44.9	10.0	03/28/2022	ND	178	88.9	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 91.3 % 66.9-136

Surrogate: 1-Chlorooctadecane 96.1 % 59.5-142

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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: 03/24/2022  
 Reported: 03/29/2022  
 Project Name: BLACK & TAN 301H  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 03/24/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: W 13 BGS 0-3' (H221172-13)**

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	03/26/2022	ND	1.88	94.2	2.00	12.8		
Toluene*	<0.050	0.050	03/26/2022	ND	2.10	105	2.00	11.8		
Ethylbenzene*	<0.050	0.050	03/26/2022	ND	2.22	111	2.00	12.6		
Total Xylenes*	<0.150	0.150	03/26/2022	ND	6.88	115	6.00	12.5		
Total BTEX	<0.300	0.300	03/26/2022	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/28/2022	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	03/28/2022	ND	186	92.9	200	2.12	
DRO >C10-C28*	<10.0	10.0	03/28/2022	ND	178	88.9	200	3.95	
EXT DRO >C28-C36	<10.0	10.0	03/28/2022	ND					

Surrogate: 1-Chlorooctane 96.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 100 % 59.5-142

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

### Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



## Page 16 of 17

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)





## ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please email changes to [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)



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

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March 31, 2022

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: BLACK & TAN 301H

Enclosed are the results of analyses for samples received by the laboratory on 03/25/22 16:40.

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](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



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:	03/25/2022	Sampling Date:	03/25/2022
Reported:	03/31/2022	Sampling Type:	Soil
Project Name:	BLACK & TAN 301H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: W 14 BGS 0-1' (H221207-01)**

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	03/30/2022	ND	2.03	102	2.00	7.29	
Toluene*	<0.050	0.050	03/30/2022	ND	2.00	100	2.00	8.40	
Ethylbenzene*	<0.050	0.050	03/30/2022	ND	1.99	99.6	2.00	7.91	
Total Xylenes*	<0.150	0.150	03/30/2022	ND	6.13	102	6.00	8.33	
Total BTEX	<0.300	0.300	03/30/2022	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	112	16.0	03/30/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2022	ND	223	112	200	1.62	
DRO >C10-C28*	22.6	10.0	03/29/2022	ND	241	120	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	03/29/2022	ND					

Surrogate: 1-Chlorooctane 85.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.8 % 59.5-142

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: 03/25/2022  
 Reported: 03/31/2022  
 Project Name: BLACK & TAN 301H  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 03/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W 15 BGS 0-1' (H221207-02)**

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	03/30/2022	ND	2.03	102	2.00	7.29		
Toluene*	<0.050	0.050	03/30/2022	ND	2.00	100	2.00	8.40		
Ethylbenzene*	<0.050	0.050	03/30/2022	ND	1.99	99.6	2.00	7.91		
Total Xylenes*	<0.150	0.150	03/30/2022	ND	6.13	102	6.00	8.33		
Total BTEx	<0.300	0.300	03/30/2022	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	144	16.0	03/30/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2022	ND	223	112	200	1.62	
DRO >C10-C28*	<10.0	10.0	03/29/2022	ND	241	120	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	03/29/2022	ND					

Surrogate: 1-Chlorooctane 91.9 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.7 % 59.5-142

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: 03/25/2022  
 Reported: 03/31/2022  
 Project Name: BLACK & TAN 301H  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 03/25/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W 16 BGS 0-1' (H221207-03)**

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	03/30/2022	ND	2.03	102	2.00	7.29		
Toluene*	<0.050	0.050	03/30/2022	ND	2.00	100	2.00	8.40		
Ethylbenzene*	<0.050	0.050	03/30/2022	ND	1.99	99.6	2.00	7.91		
Total Xylenes*	<0.150	0.150	03/30/2022	ND	6.13	102	6.00	8.33		
Total BTEx	<0.300	0.300	03/30/2022	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	96.0	16.0	03/30/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/29/2022	ND	223	112	200	1.62	
DRO >C10-C28*	<10.0	10.0	03/29/2022	ND	241	120	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	03/29/2022	ND					

Surrogate: 1-Chlorooctane 92.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

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

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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 Power Co.</u>		P.O. #:		BILL TO										ANALYSIS REQUEST									
Project Manager: <u>APACHE POWER CO.</u>		Company:																					
Address:		Attn:																					
City:		Address:																					
State:		City:																					
Zip:		State:																					
Phone #:		Fax #:																					
Project #:		Project Owner:																					
Project Location: <u>Black &amp; Tan 301H</u>		City:																					
Sample Name: <u>Black &amp; Tan 301H</u>		Phone #:																					
Fax #:		Fax #:																					
FOR LAB USE ONLY		PRESERV.																					
Lab I.D.		SAMPLING																					
Sample I.D.																							
1		DATE																					
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3																							
H991207		1:00																					
W14		1:00																					
W15		1:00																					
W16		1:04																					
EGS 0-1'																							
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(G)RAB OR (C)OMP.																							
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WASTEWATER																							
SOIL																							
OIL																							
SLUDGE																							
OTHER :																							
ACID/BASE:																							
ICE / COOL																							
OTHER :																							
REMARKS:																							
Turnaround Time:																							
Thermometer ID #113																							
Correction Factor -0.5°C																							
Standard																							
Rush																							
Bacteria (only)																							
Cool Intact																							
Sample Condition																							
Observed Temp. °C																							
Corrected Temp. °C																							
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Sampler - UPS - Bus - Other:																							
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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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April 21, 2022

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: BLACK & TAN 301H

Enclosed are the results of analyses for samples received by the laboratory on 04/20/22 16:33.

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](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





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

**Analytical Results For:**

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

Received:	04/20/2022	Sampling Date:	04/20/2022
Reported:	04/21/2022	Sampling Type:	Soil
Project Name:	BLACK & TAN 301H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

**Sample ID: B 11 @ 1' (H221633-01)**

BTEX 8021B			mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/21/2022	ND	1.89	94.4	2.00	12.4		
Toluene*	<0.050	0.050	04/21/2022	ND	1.89	94.4	2.00	13.1		
Ethylbenzene*	<0.050	0.050	04/21/2022	ND	1.81	90.3	2.00	13.2		
Total Xylenes*	<0.150	0.150	04/21/2022	ND	5.63	93.8	6.00	13.6		
Total BTEX	<0.300	0.300	04/21/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	04/21/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/21/2022	ND	208	104	200	3.11	
DRO >C10-C28*	10.9	10.0	04/21/2022	ND	186	93.1	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	04/21/2022	ND					

Surrogate: 1-Chlorooctane 88.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.4 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/20/2022  
 Reported: 04/21/2022  
 Project Name: BLACK & TAN 301H  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 04/20/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: B 12 @ 1' (H221633-02)**

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/21/2022	ND	1.89	94.4	2.00	12.4		
Toluene*	<0.050	0.050	04/21/2022	ND	1.89	94.4	2.00	13.1		
Ethylbenzene*	<0.050	0.050	04/21/2022	ND	1.81	90.3	2.00	13.2		
Total Xylenes*	<0.150	0.150	04/21/2022	ND	5.63	93.8	6.00	13.6		
Total BTEx	<0.300	0.300	04/21/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	176	16.0	04/21/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/21/2022	ND	208	104	200	3.11	
DRO >C10-C28*	43.0	10.0	04/21/2022	ND	186	93.1	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	04/21/2022	ND					

Surrogate: 1-Chlorooctane 86.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.1 % 59.5-142

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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: 04/20/2022  
 Reported: 04/21/2022  
 Project Name: BLACK & TAN 301H  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 04/20/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: W 17 BGS 0-1' (H221633-03)**

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/21/2022	ND	1.89	94.4	2.00	12.4		
Toluene*	<0.050	0.050	04/21/2022	ND	1.89	94.4	2.00	13.1		
Ethylbenzene*	<0.050	0.050	04/21/2022	ND	1.81	90.3	2.00	13.2		
Total Xylenes*	<0.150	0.150	04/21/2022	ND	5.63	93.8	6.00	13.6		
Total BTEx	<0.300	0.300	04/21/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	04/21/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/21/2022	ND	208	104	200	3.11	
DRO >C10-C28*	<10.0	10.0	04/21/2022	ND	186	93.1	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	04/21/2022	ND					

Surrogate: 1-Chlorooctane 83.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 85.2 % 59.5-142

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: 04/20/2022  
 Reported: 04/21/2022  
 Project Name: BLACK & TAN 301H  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 04/20/2022  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: B 4 @ 3' (H221633-04)**

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/21/2022	ND	1.89	94.4	2.00	12.4		
Toluene*	<0.050	0.050	04/21/2022	ND	1.89	94.4	2.00	13.1		
Ethylbenzene*	<0.050	0.050	04/21/2022	ND	1.81	90.3	2.00	13.2		
Total Xylenes*	<0.150	0.150	04/21/2022	ND	5.63	93.8	6.00	13.6		
Total BTEx	<0.300	0.300	04/21/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	04/21/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/21/2022	ND	208	104	200	3.11	
DRO >C10-C28*	<10.0	10.0	04/21/2022	ND	186	93.1	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	04/21/2022	ND					

Surrogate: 1-Chlorooctane 93.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.0 % 59.5-142

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

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

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

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Celey D. Keene, Lab Director/Quality Manager

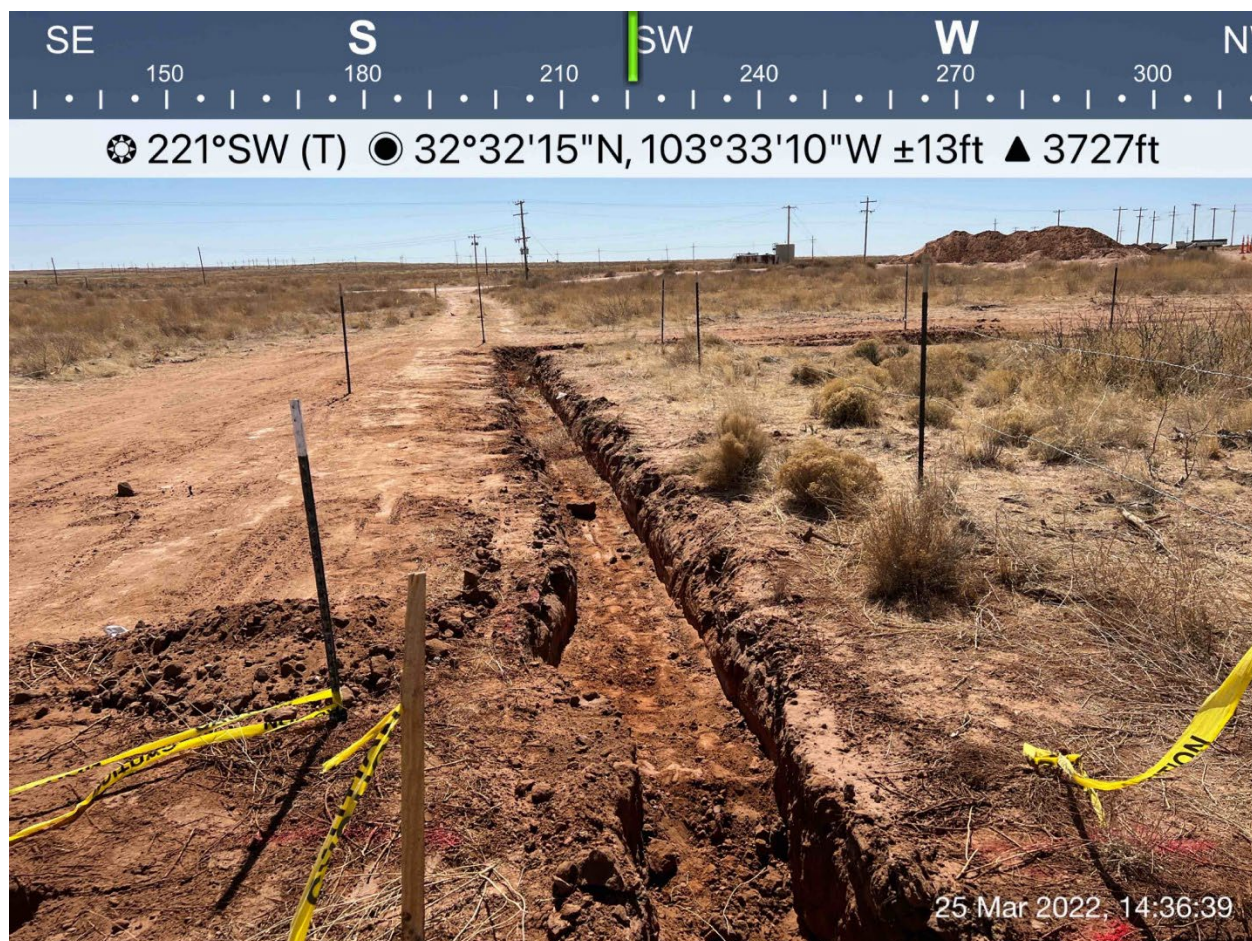


101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> Apache <b>Project Manager:</b> Bruce Baker <b>Address:</b> <b>City:</b> Hobbs <b>State:</b> NM <b>Zip:</b> 88240 <b>Phone #:</b> <b>Fax #:</b> <b>Project #:</b> <b>Project Owner:</b> <b>Project Name:</b> <b>Project Location:</b> Blaine & Tan SO1A <b>Sampler Name:</b> Joe Gunder Jr. <b>FOR LAB USE ONLY</b>		<b>P.O. #:</b> <b>Company:</b> <b>Attn:</b> <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>	
<b>Lab I.D.</b> <b>Sample I.D.</b> B11033 B11 01' B12 01' W17 BGS 0-1' B14 03' (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:		<b>BILL TO</b> <b>ANALYSIS REQUEST</b>	
<b>Relinquished By:</b> [Signature] <b>Date:</b> 4/20/20 <b>Received By:</b> [Signature] <b>Date:</b> 4/20/20 <b>Relinquished By:</b> [Signature] <b>Date:</b> 4/20/20 <b>Received By:</b> [Signature]		<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b> <b>All Results are emailed. Please provide Email address:</b> <b>REMARKS:</b> Rush! get her!	
<b>Delivered By: (Circle One)</b> Sampler - UPS - Bus - Other: Observed Temp. °C: 5.30 Corrected Temp. °C: 4.82 Sample Condition: Cool Intact Checked BY: [Signature]		Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Bacteria (only) <input type="checkbox"/> Cool Intact <input type="checkbox"/> Sample Condition Thermometer ID #113 <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Correction Factor: -0.52 Observed Temp. °C: <b>Corrected Temp. °C:</b>	



























**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 116545

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 116545
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	6/14/2022