



303 Veterans Airpark Lane Midland, TX 79705

Deferment Request

October 27, 2021

Re: Dixie Queen # 1 CTB
Case nAPP2121474442

On 7/26/2021 a release occurred due to a failure on the heater treater. The release (GPS: 32.58121, -103.112347) is located south of Hobbs, New Mexico in unit letter P section 11 township 20S range 38E. A groundwater survey was conducted utilizing NMOSE wells of record. A monitor well (L14058) drilled in 2016 suggest that groundwater beneath the release to be 33 feet.

On 9/10/2021 delineation was conducted to a depth of 1 foot at SP 1 and 2 and to a depth of 2' at SP 3. All samples collected and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. On 9/15/2021 SP 3 was further delineated to a depth of 3 feet. The sample collected was submitted to a commercial laboratory for analysis of Chloride.

The release area was excavated to a depth of 2 feet in the areas surrounding SP 1 and SP 2. The area around SP 3 was hand excavated (1.5 feet) to the extent safely possible due to the close proximity of the heater treater. Beginning on 9/20/2021 final 5 point bottom and wall samples were collected not to exceed 200 square feet and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. All excavated material was hauled to an OCD approved disposal facility. The 2 foot excavation was backfilled with clean imported top soil and the 1.5 foot excavation was backfilled with clean imported caliche.

Apache Corporation has remediated the majority of the release to below table one standards for releases less than 50 feet to groundwater and request that the area (6.6 yards) in close proximity of the heater treater being fully delineated to 3 feet and posing no risk to groundwater be deferred until system abandonment or removal of the heater treater.

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

Submitted by;

Bruce Baker

Environmental Technician
larry.baker@apachecorp.com
Cell# 432-631-6982

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>33</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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.

Printed Name: Larry Baker Title: Environmental Tech SR.

Signature: Larry Baker Date: 10/27/2021

email: larry.baker@apachecorp.com Telephone: 432-631-6982

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation.

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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.

Printed Name: Larry Baker Title: Environmental Tech SR.
 Signature: Larry Baker Date: 10/27/2021
 email: larry.baker@apachecorp.com Telephone: 432-631-6982

OCD Only

Received by: Chad Hensley Date: 12/01/2021

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: Chad Hensley Date: 12/01/2021

Show search results for 32.581...

Water Dog Rd

L-14058-POD2

L-14058-POD1

L-03125

L-07886

Water Dog Rd

1:2256



New Mexico Office of the State Engineer Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(NAD83 UTM in meters)			
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
L	14058 POD2	2	3	4	11	20S	38E	676786	3606717

Driller License:	1456	Driller Company:	WHITE DRILLING COMPANY
Driller Name:	WHITE, JOHN W		
Drill Start Date:	08/29/2016	Drill Finish Date:	08/29/2016
		Plug Date:	08/30/2017
Log File Date:	09/30/2016	PCW Rcv Date:	
		Source:	Shallow
Pump Type:		Pipe Discharge Size:	
		Estimated Yield:	
Casing Size:	2.00	Depth Well:	42 feet
		Depth Water:	33 feet

Water Bearing Stratifications:	Top	Bottom	Description
	32	35	Sandstone/Gravel/Conglomerate
	35	37	Sandstone/Gravel/Conglomerate
	37	42	Shale/Mudstone/Siltstone

Casing Perforations:	Top	Bottom
	27	42

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

10/27/21 12:02 PM

POINT OF DIVERSION SUMMARY



SP1

SP 2

SP 3

49 ft



50 ft



Sample Date	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS
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Delineation Samples

9/10/2021	SP 1	Surface	288	<0.050	<0.050	0.144	0.669	0.813	<50.0	17300	6210	32.5813163, 103.1123231
9/10/2021	SP 1	1'	576	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	131	72.9	
9/10/2021	SP 2	Surface	288	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5811802, 103.1121950
9/10/2021	SP 2	1'	400	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
9/10/2021	SP 3	Surface	96	0.306	2.020	2.810	12.8	17.9	<50.0	4400	1160	32.5811872, 103.1123707
9/10/2021	SP 3	1'	1,800	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
9/10/2021	SP 3	2'	1,120	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
9/15/2021	SP 3	3'	256									

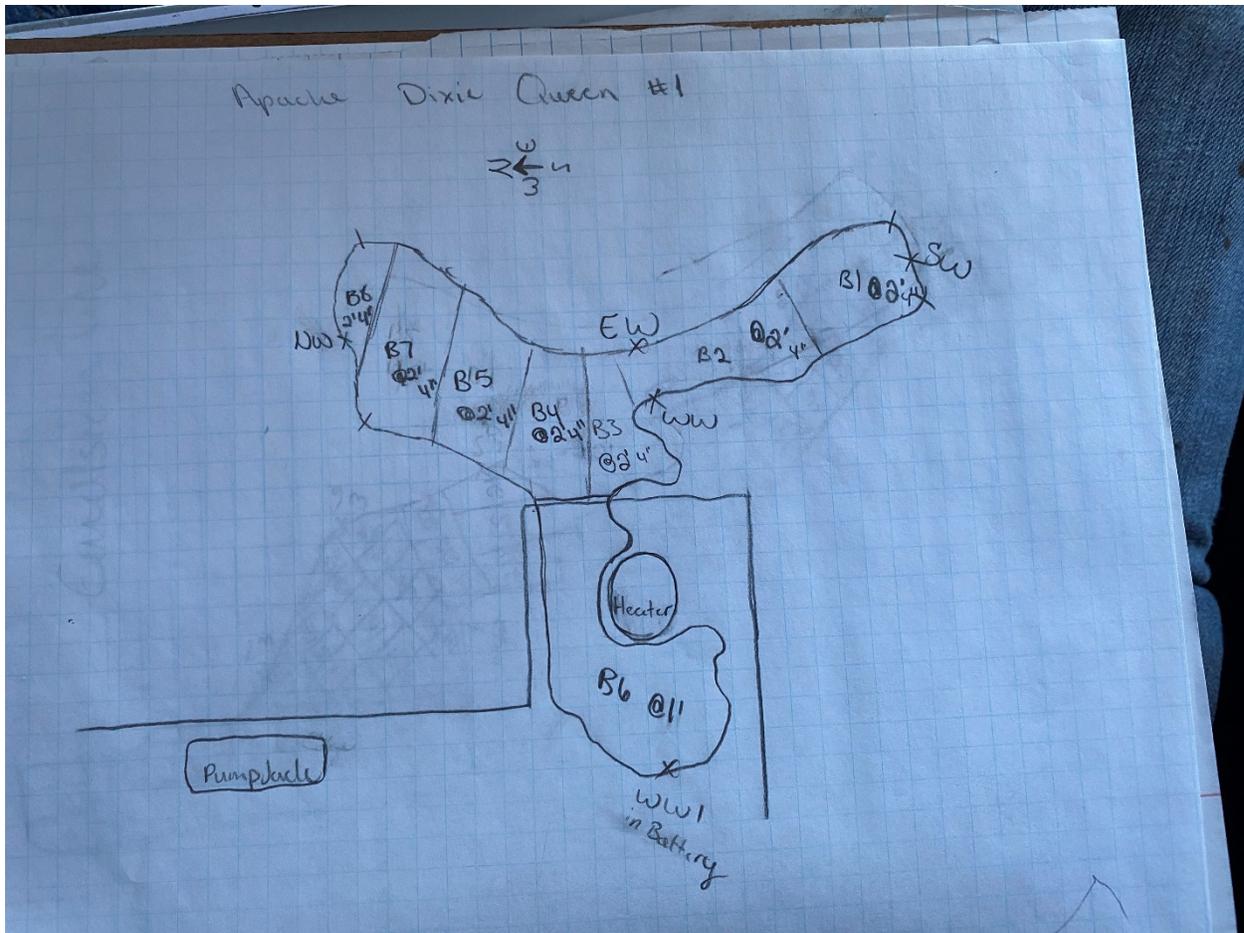
Final Bottom Samples

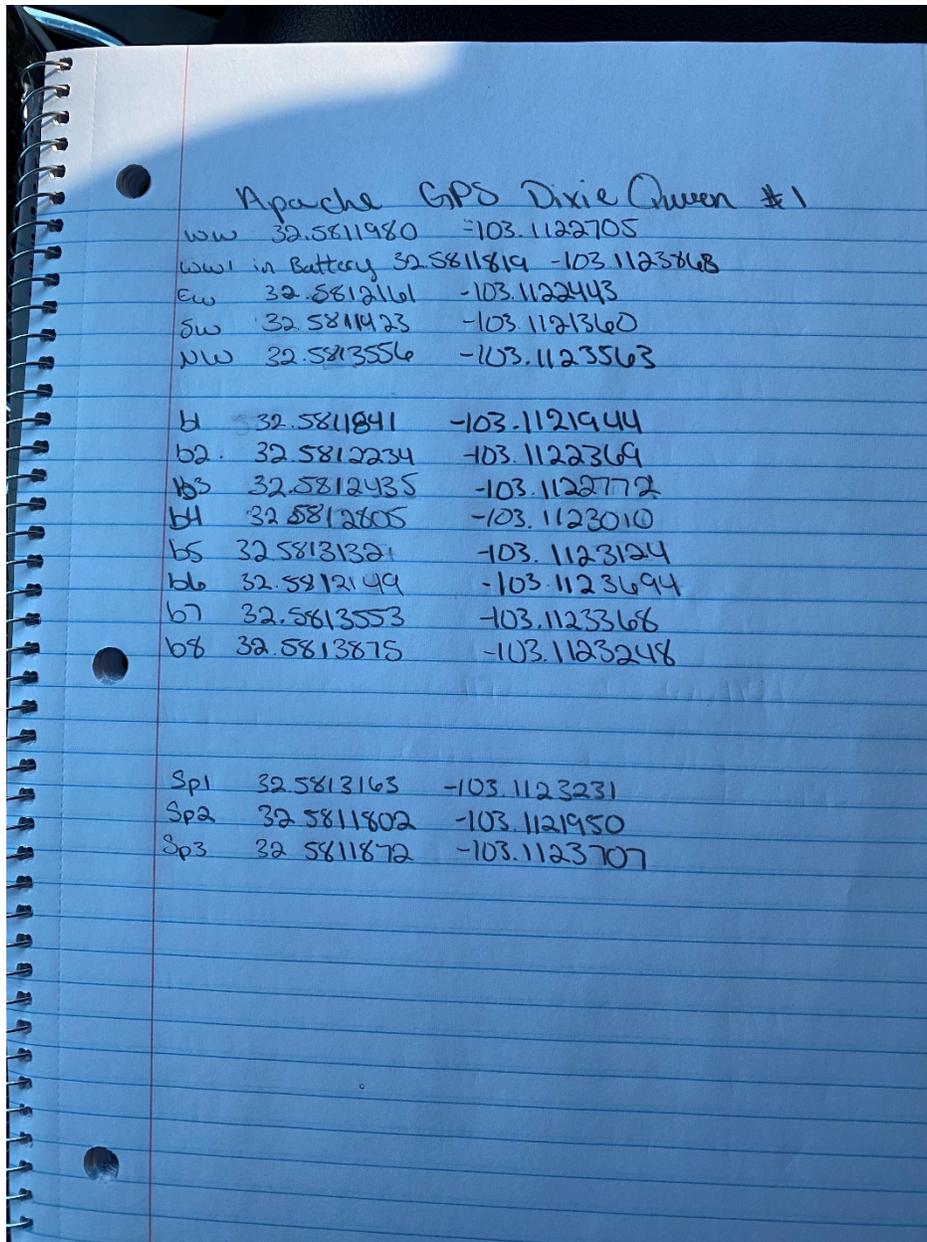
Sample Date	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS
9/20/2021	B1	2'	176	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5811841, 103.1121944
9/20/2021	B2	2'	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5812234, 103.1122369
9/20/2021	B3	2'	144	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5812435, 103.1122772
9/22/2021	B3	2'	368	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
9/20/2021	B4	2'	144	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5812805, 103.1123010
9/22/2021	B4	2'	320	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
9/22/2021	B5	2'	320	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5813132, 103.1123124
9/22/2021	B7	2'	336	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.58133875, 103.1123248
9/22/2021	B8	2'	272	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5813553, 103.1123368
10/14/2021	B6	1.5'	1940	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	236	45.4	32.5812149, 103.1123694

Final Wall Samples

Sample Date	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS
9/20/2021	SW	0-2'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5811423, 103.1121360
9/20/2021	NW	0-2'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5813556, 103.1123563
9/20/2021	EW	0-2'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5812161, 103.1122443
9/20/2021	WW	0-1.5'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5811980, 103.1122705
9/20/2021	WW @ 1' in Battery	0-2'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5811819, 103.1123863

*Note that B3 and B4 have two samples due to confusion of what had been taken the previous day







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

September 14, 2021

JEFFREY BROOM

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: DIXIE QUEEN 001

Enclosed are the results of analyses for samples received by the laboratory on 09/10/21 11:27.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" at the beginning.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/10/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	DIXIE QUEEN 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ SURFACE (H212508-01)

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	09/11/2021	ND	1.86	92.9	2.00	1.31	
Toluene*	<0.050	0.050	09/11/2021	ND	2.04	102	2.00	1.42	
Ethylbenzene*	0.144	0.050	09/11/2021	ND	2.01	101	2.00	1.51	
Total Xylenes*	0.669	0.150	09/11/2021	ND	6.06	101	6.00	1.38	
Total BTEX	0.813	0.300	09/11/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	288	16.0	09/13/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<50.0	50.0	09/13/2021	ND	211	105	200	4.05		
DRO >C10-C28*	17300	50.0	09/13/2021	ND	188	93.9	200	5.28		
EXT DRO >C28-C36	6210	50.0	09/13/2021	ND						

Surrogate: 1-Chlorooctane 94.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 710 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/10/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	DIXIE QUEEN 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 1' (H212508-02)

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	09/11/2021	ND	1.86	92.9	2.00	1.31	
Toluene*	<0.050	0.050	09/11/2021	ND	2.04	102	2.00	1.42	
Ethylbenzene*	<0.050	0.050	09/11/2021	ND	2.01	101	2.00	1.51	
Total Xylenes*	<0.150	0.150	09/11/2021	ND	6.06	101	6.00	1.38	
Total BTEX	<0.300	0.300	09/11/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	576	16.0	09/13/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	211	105	200	4.05	
DRO >C10-C28*	131	10.0	09/13/2021	ND	188	93.9	200	5.28	
EXT DRO >C28-C36	72.9	10.0	09/13/2021	ND					

Surrogate: 1-Chlorooctane 93.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 100 % 38.9-142

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/10/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	DIXIE QUEEN 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ SURFACE (H212508-03)

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	09/11/2021	ND	1.86	92.9	2.00	1.31		
Toluene*	<0.050	0.050	09/11/2021	ND	2.04	102	2.00	1.42		
Ethylbenzene*	<0.050	0.050	09/11/2021	ND	2.01	101	2.00	1.51		
Total Xylenes*	<0.150	0.150	09/11/2021	ND	6.06	101	6.00	1.38		
Total BTEX	<0.300	0.300	09/11/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	09/13/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	211	105	200	4.05		
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	188	93.9	200	5.28		
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND						

Surrogate: 1-Chlorooctane 90.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.0 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/10/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	DIXIE QUEEN 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 1' (H212508-04)

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	09/11/2021	ND	1.86	92.9	2.00	1.31		
Toluene*	<0.050	0.050	09/11/2021	ND	2.04	102	2.00	1.42		
Ethylbenzene*	<0.050	0.050	09/11/2021	ND	2.01	101	2.00	1.51		
Total Xylenes*	<0.150	0.150	09/11/2021	ND	6.06	101	6.00	1.38		
Total BTEX	<0.300	0.300	09/11/2021	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	09/13/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	211	105	200	4.05		
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	188	93.9	200	5.28		
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND						

Surrogate: 1-Chlorooctane 97.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.2 % 38.9-142

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/10/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	DIXIE QUEEN 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ SURFACE (H212508-05)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.306	0.050	09/13/2021	ND	1.90	95.0	2.00	8.77	
Toluene*	2.02	0.050	09/13/2021	ND	1.88	94.1	2.00	10.6	
Ethylbenzene*	2.81	0.050	09/13/2021	ND	1.91	95.6	2.00	8.02	
Total Xylenes*	12.8	0.150	09/13/2021	ND	5.88	98.0	6.00	7.96	
Total BTEX	17.9	0.300	09/13/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 158 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/13/2021	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	09/13/2021	ND	211	105	200	4.05	
DRO >C10-C28*	4400	50.0	09/13/2021	ND	188	93.9	200	5.28	
EXT DRO >C28-C36	1160	50.0	09/13/2021	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-133

Surrogate: 1-Chlorooctadecane 211 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/10/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	DIXIE QUEEN 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 1' (H212508-06)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/13/2021	ND	1.90	95.0	2.00	8.77		
Toluene*	<0.050	0.050	09/13/2021	ND	1.88	94.1	2.00	10.6		
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	1.91	95.6	2.00	8.02		
Total Xylenes*	<0.150	0.150	09/13/2021	ND	5.88	98.0	6.00	7.96		
Total BTEX	<0.300	0.300	09/13/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1800	16.0	09/13/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	206	103	200	8.71		
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	198	99.0	200	6.63		
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND						

Surrogate: 1-Chlorooctane 107 % 44.3-133

Surrogate: 1-Chlorooctadecane 112 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/10/2021	Sampling Date:	09/10/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	DIXIE QUEEN 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 2' (H212508-07)

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	09/13/2021	ND	1.90	95.0	2.00	8.77		
Toluene*	<0.050	0.050	09/13/2021	ND	1.88	94.1	2.00	10.6		
Ethylbenzene*	<0.050	0.050	09/13/2021	ND	1.91	95.6	2.00	8.02		
Total Xylenes*	<0.150	0.150	09/13/2021	ND	5.88	98.0	6.00	7.96		
Total BTEX	<0.300	0.300	09/13/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1120	16.0	09/13/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/13/2021	ND	206	103	200	8.71		
DRO >C10-C28*	<10.0	10.0	09/13/2021	ND	198	99.0	200	6.63		
EXT DRO >C28-C36	<10.0	10.0	09/13/2021	ND						

Surrogate: 1-Chlorooctane 101 % 44.3-133

Surrogate: 1-Chlorooctadecane 107 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

September 16, 2021

JEFFREY BROOM

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: DIXIE QUEEN 001

Enclosed are the results of analyses for samples received by the laboratory on 09/15/21 15:57.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/15/2021	Sampling Date:	09/14/2021
Reported:	09/16/2021	Sampling Type:	Soil
Project Name:	DIXIE QUEEN 001	Sampling Condition:	** (See Notes)
Project Number:	DIXIE QUEEN #1	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 3' (H212565-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	09/16/2021	ND	432	108	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Apack Corp</u> Project Manager: <u>Bruc Baker</u> Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____ Project Name: <u>Dixie Queen # 1</u> Project Location: <u>Dixie Queen # 2</u> Sampler Name: <u>Jeff Brown</u> FOR LAB USE ONLY		P.O. #: _____ Company: _____ Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Lab I.D. _____ Sample I.D. _____ <u>Horstos</u> <u>1 SP3031</u>		(G)RAB OR (C)OMP. _____ # CONTAINERS _____ GROUNDWATER, WASTEWATER _____ MATRIX: SOIL <input checked="" type="checkbox"/> OIL _____ SLUDGE _____ OTHER: ACID/BASE: _____ ICE / COOL _____ OTHER: _____ DATE: <u>9/14/21</u> TIME: <u>1015</u> CL -	
Requisitioned By: _____ Date: <u>9/15/21</u> Time: <u>3:57</u> Relinquished By: <u>Jeff Brown</u> Date: _____ Time: _____ Received By: <u>Juanita</u>		CHECKED BY: _____ (Initials) Sample Condition: Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Bacteria (only) Sample Condition: Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Observed Temp. °C: <u>13.3</u> Corrected Temp. °C: _____ Thermometer ID #113 Correction Factor: None	
Delivered By: (Circle One) _____ Sampler - UPS - Bus - Other: _____ Observed Temp. °C: _____ Corrected Temp. °C: _____ Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____ REMARKS: _____		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____ Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Bacteria (only) Sample Condition: Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Observed Temp. °C: _____ Corrected Temp. °C: _____	

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



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

September 23, 2021

JEFFREY BROOM

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: DIXIE QUEEN 001

Enclosed are the results of analyses for samples received by the laboratory on 09/20/21 16:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/20/2021	Sampling Date:	09/20/2021
Reported:	09/23/2021	Sampling Type:	Soil
Project Name:	DIXIE QUEEN 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SW (H212614-01)

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	09/21/2021	ND	1.87	93.4	2.00	5.46	
Toluene*	<0.050	0.050	09/21/2021	ND	2.04	102	2.00	5.74	
Ethylbenzene*	<0.050	0.050	09/21/2021	ND	1.99	99.3	2.00	4.83	
Total Xylenes*	<0.150	0.150	09/21/2021	ND	5.97	99.4	6.00	4.60	
Total BTEX	<0.300	0.300	09/21/2021	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	16.0	16.0	09/21/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2021	ND	177	88.7	200	2.45	
DRO >C10-C28*	<10.0	10.0	09/21/2021	ND	186	92.9	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	09/21/2021	ND					

Surrogate: 1-Chlorooctane 85.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 73.1 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/20/2021	Sampling Date:	09/20/2021
Reported:	09/23/2021	Sampling Type:	Soil
Project Name:	DIXIE QUEEN 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: NW (H212614-02)

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	09/21/2021	ND	1.87	93.4	2.00	5.46	
Toluene*	<0.050	0.050	09/21/2021	ND	2.04	102	2.00	5.74	
Ethylbenzene*	<0.050	0.050	09/21/2021	ND	1.99	99.3	2.00	4.83	
Total Xylenes*	<0.150	0.150	09/21/2021	ND	5.97	99.4	6.00	4.60	
Total BTEX	<0.300	0.300	09/21/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/21/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2021	ND	177	88.7	200	2.45	
DRO >C10-C28*	<10.0	10.0	09/21/2021	ND	186	92.9	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	09/21/2021	ND					

Surrogate: 1-Chlorooctane 78.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 67.2 % 38.9-142

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/20/2021	Sampling Date:	09/20/2021
Reported:	09/23/2021	Sampling Type:	Soil
Project Name:	DIXIE QUEEN 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: EW (H212614-03)

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	09/21/2021	ND	1.87	93.4	2.00	5.46	
Toluene*	<0.050	0.050	09/21/2021	ND	2.04	102	2.00	5.74	
Ethylbenzene*	<0.050	0.050	09/21/2021	ND	1.99	99.3	2.00	4.83	
Total Xylenes*	<0.150	0.150	09/21/2021	ND	5.97	99.4	6.00	4.60	
Total BTEX	<0.300	0.300	09/21/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/21/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2021	ND	177	88.7	200	2.45	
DRO >C10-C28*	<10.0	10.0	09/21/2021	ND	186	92.9	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	09/21/2021	ND					

Surrogate: 1-Chlorooctane 82.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 75.5 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/20/2021	Sampling Date:	09/20/2021
Reported:	09/23/2021	Sampling Type:	Soil
Project Name:	DIXIE QUEEN 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: WW (H212614-04)

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	09/21/2021	ND	1.87	93.4	2.00	5.46	
Toluene*	<0.050	0.050	09/21/2021	ND	2.04	102	2.00	5.74	
Ethylbenzene*	<0.050	0.050	09/21/2021	ND	1.99	99.3	2.00	4.83	
Total Xylenes*	<0.150	0.150	09/21/2021	ND	5.97	99.4	6.00	4.60	
Total BTEX	<0.300	0.300	09/21/2021	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	16.0	16.0	09/21/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2021	ND	177	88.7	200	2.45	
DRO >C10-C28*	<10.0	10.0	09/21/2021	ND	186	92.9	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	09/21/2021	ND					

Surrogate: 1-Chlorooctane 74.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 66.3 % 38.9-142

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/20/2021	Sampling Date:	09/20/2021
Reported:	09/23/2021	Sampling Type:	Soil
Project Name:	DIXIE QUEEN 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: WW @ 1' IN BATTERY (H212614-05)

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	09/21/2021	ND	1.87	93.4	2.00	5.46	
Toluene*	<0.050	0.050	09/21/2021	ND	2.04	102	2.00	5.74	
Ethylbenzene*	<0.050	0.050	09/21/2021	ND	1.99	99.3	2.00	4.83	
Total Xylenes*	<0.150	0.150	09/21/2021	ND	5.97	99.4	6.00	4.60	
Total BTEX	<0.300	0.300	09/21/2021	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	16.0	16.0	09/21/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2021	ND	177	88.7	200	2.45	
DRO >C10-C28*	<10.0	10.0	09/21/2021	ND	186	92.9	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	09/21/2021	ND					

Surrogate: 1-Chlorooctane 85.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 74.1 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Poche P.O. #: _____
 Project Manager: Bruce Baker Company: _____
 Address: _____ Attn: _____
 City: Hobbs State: NM Zip: 88240 Address: _____
 Phone #: _____ Fax #: _____ City: _____
 Project #: _____ Project Owner: _____ State: _____ Zip: _____
 Project Name: _____
 Project Location: Dixie Queen #1 Phone #: _____
 Sampler Name: Debra Baker Fax #: _____

Lab I.D.	Sample I.D.	FOR LAB USE ONLY		DATE	TIME	CHECK	EXT	TPH	BTEX
		(G)RAB OR (C)OMP	# CONTAINERS						
H212614	SW	(C)OMP	1	9-20	7:56	X	X	X	
	DW	(C)OMP	1	9-20	7:58	X	X	X	
	EW	(C)OMP	1	9-20	8:00	X	X	X	
	WW	(C)OMP	1	9-20	8:02	X	X	X	
	WW @ in Battery	(C)OMP	1	9-20	8:04	X	X	X	

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Relinquished By: [Signature] Date: 9-20 Received By: [Signature]
 Relinquished By: [Signature] Date: 10:50 Received By: [Signature]

Delivered By: (Circle One) Observed Temp. °C 5.4 Sample Condition Intact CHECKED BY: [Signature]
 Sampler - UPS - Bus - Other: Corrected Temp. °C _____ Cool Intact
 Yes No Yes No



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

September 23, 2021

JEFFREY BROOM

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: DIXIE QUEEN 001

Enclosed are the results of analyses for samples received by the laboratory on 09/20/21 16:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/20/2021	Sampling Date:	09/20/2021
Reported:	09/23/2021	Sampling Type:	Soil
Project Name:	DIXIE QUEEN 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: B1 @ 2' (H212615-01)

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	09/21/2021	ND	1.87	93.4	2.00	5.46		
Toluene*	<0.050	0.050	09/21/2021	ND	2.04	102	2.00	5.74		
Ethylbenzene*	<0.050	0.050	09/21/2021	ND	1.99	99.3	2.00	4.83		
Total Xylenes*	<0.150	0.150	09/21/2021	ND	5.97	99.4	6.00	4.60		
Total BTEX	<0.300	0.300	09/21/2021	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	176	16.0	09/21/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/21/2021	ND	177	88.7	200	2.45		
DRO >C10-C28*	<10.0	10.0	09/21/2021	ND	186	92.9	200	8.05		
EXT DRO >C28-C36	<10.0	10.0	09/21/2021	ND						

Surrogate: 1-Chlorooctane 80.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 70.1 % 38.9-142

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/20/2021	Sampling Date:	09/20/2021
Reported:	09/23/2021	Sampling Type:	Soil
Project Name:	DIXIE QUEEN 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: B2 @ 2' (H212615-02)

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	09/21/2021	ND	1.87	93.4	2.00	5.46	
Toluene*	<0.050	0.050	09/21/2021	ND	2.04	102	2.00	5.74	
Ethylbenzene*	<0.050	0.050	09/21/2021	ND	1.99	99.3	2.00	4.83	
Total Xylenes*	<0.150	0.150	09/21/2021	ND	5.97	99.4	6.00	4.60	
Total BTEX	<0.300	0.300	09/21/2021	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	160	16.0	09/21/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2021	ND	177	88.7	200	2.45	
DRO >C10-C28*	<10.0	10.0	09/21/2021	ND	186	92.9	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	09/21/2021	ND					

Surrogate: 1-Chlorooctane 78.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 67.8 % 38.9-142

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/20/2021	Sampling Date:	09/20/2021
Reported:	09/23/2021	Sampling Type:	Soil
Project Name:	DIXIE QUEEN 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: B3 @ 2' (H212615-03)

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	09/21/2021	ND	1.96	98.2	2.00	3.20	
Toluene*	<0.050	0.050	09/21/2021	ND	1.98	99.2	2.00	6.38	
Ethylbenzene*	<0.050	0.050	09/21/2021	ND	1.94	97.0	2.00	6.50	
Total Xylenes*	<0.150	0.150	09/21/2021	ND	5.95	99.1	6.00	6.74	
Total BTEX	<0.300	0.300	09/21/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/21/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2021	ND	177	88.7	200	2.45	
DRO >C10-C28*	<10.0	10.0	09/21/2021	ND	186	92.9	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	09/21/2021	ND					

Surrogate: 1-Chlorooctane 76.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 66.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/20/2021	Sampling Date:	09/20/2021
Reported:	09/23/2021	Sampling Type:	Soil
Project Name:	DIXIE QUEEN 001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: B4 @ 2' (H212615-04)

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	09/21/2021	ND	1.96	98.2	2.00	3.20	
Toluene*	<0.050	0.050	09/21/2021	ND	1.98	99.2	2.00	6.38	
Ethylbenzene*	<0.050	0.050	09/21/2021	ND	1.94	97.0	2.00	6.50	
Total Xylenes*	<0.150	0.150	09/21/2021	ND	5.95	99.1	6.00	6.74	
Total BTEX	<0.300	0.300	09/21/2021	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	144	16.0	09/21/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/21/2021	ND	177	88.7	200	2.45	
DRO >C10-C28*	<10.0	10.0	09/21/2021	ND	186	92.9	200	8.05	
EXT DRO >C28-C36	<10.0	10.0	09/21/2021	ND					

Surrogate: 1-Chlorooctane 87.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 74.9 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Apacene
 Project Manager: Russel Baker
 Address: _____
 City: Hobbs State: NM zip: 88240
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: _____
 Project Name: _____
 Project Location: Dixie Queen #1
 Sampler Name: xxxxxxxxxxxx
 P.O. #: _____
 Company: _____
 Attn: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____
 Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		DATE	TIME	SAMPLING	OTHER	OTHER
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ICE	COOL					
<u>H212615</u>	<u>Bl @ 2'</u>	<u>C 1</u>	<u>1</u>			<u>X</u>					<u>9-20</u>	<u>9:30</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
	<u>B2 @ 2'</u>	<u>C 1</u>	<u>1</u>			<u>X</u>					<u>9-20</u>	<u>8:38</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
	<u>B3 @ 2'</u>	<u>C 1</u>	<u>1</u>			<u>X</u>					<u>9-20</u>	<u>18:52</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>
	<u>B4 @ 2'</u>	<u>C 1</u>	<u>1</u>			<u>X</u>					<u>9-20</u>	<u>01:50</u>	<u>X</u>	<u>X</u>	<u>X</u>	<u>X</u>

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Relinquished By: _____ Date: 9-20 Received By: _____
 Relinquished By: _____ Date: 10:50 Received By: Godi Johnson
 Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address: _____
 REMARKS: _____

Delivered By: (Circle One) Observed Temp. °C 5.4 Sample Condition: Intact Cool Yes No Intact Yes No
 Sampler - UPS - Bus - Other: Corrected Temp. °C _____ CHECKED BY: _____
 Turnaround Time: _____ Standard Rush Bacteria (only) Cool Intact Yes No Yes No
 Thermometer ID #113 Correction Factor None Corrected Temp. °C _____
 Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinalabsnm.com



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

September 24, 2021

JEFFREY BROOM

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: DIXIE QUEEN 001

Enclosed are the results of analyses for samples received by the laboratory on 09/22/21 8:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/22/2021	Sampling Date:	09/22/2021
Reported:	09/24/2021	Sampling Type:	Soil
Project Name:	DIXIE QUEEN 001	Sampling Condition:	Cool & Intact
Project Number:	DIXIE QUEEN #1	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 3 @ 2' (H212626-01)

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	09/22/2021	ND	1.82	91.2	2.00	4.33	
Toluene*	<0.050	0.050	09/22/2021	ND	2.00	100	2.00	4.53	
Ethylbenzene*	<0.050	0.050	09/22/2021	ND	1.94	97.2	2.00	3.69	
Total Xylenes*	<0.150	0.150	09/22/2021	ND	5.84	97.3	6.00	3.75	
Total BTEX	<0.300	0.300	09/22/2021	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	368	16.0	09/22/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/22/2021	ND	216	108	200	3.95	
DRO >C10-C28*	<10.0	10.0	09/22/2021	ND	215	107	200	4.74	
EXT DRO >C28-C36	<10.0	10.0	09/22/2021	ND					

Surrogate: 1-Chlorooctane 74.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 74.5 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/22/2021	Sampling Date:	09/22/2021
Reported:	09/24/2021	Sampling Type:	Soil
Project Name:	DIXIE QUEEN 001	Sampling Condition:	Cool & Intact
Project Number:	DIXIE QUEEN #1	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 4 @ 2' (H212626-02)

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	09/22/2021	ND	1.82	91.2	2.00	4.33	
Toluene*	<0.050	0.050	09/22/2021	ND	2.00	100	2.00	4.53	
Ethylbenzene*	<0.050	0.050	09/22/2021	ND	1.94	97.2	2.00	3.69	
Total Xylenes*	<0.150	0.150	09/22/2021	ND	5.84	97.3	6.00	3.75	
Total BTEX	<0.300	0.300	09/22/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	09/22/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2021	ND	211	105	200	14.7	
DRO >C10-C28*	<10.0	10.0	09/23/2021	ND	204	102	200	14.6	
EXT DRO >C28-C36	<10.0	10.0	09/23/2021	ND					

Surrogate: 1-Chlorooctane 85.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 85.7 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/22/2021	Sampling Date:	09/22/2021
Reported:	09/24/2021	Sampling Type:	Soil
Project Name:	DIXIE QUEEN 001	Sampling Condition:	Cool & Intact
Project Number:	DIXIE QUEEN #1	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 5 @ 2' (H212626-03)

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	09/22/2021	ND	1.82	91.2	2.00	4.33	
Toluene*	<0.050	0.050	09/22/2021	ND	2.00	100	2.00	4.53	
Ethylbenzene*	<0.050	0.050	09/22/2021	ND	1.94	97.2	2.00	3.69	
Total Xylenes*	<0.150	0.150	09/22/2021	ND	5.84	97.3	6.00	3.75	
Total BTEX	<0.300	0.300	09/22/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	09/22/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/23/2021	ND	211	105	200	14.7	
DRO >C10-C28*	<10.0	10.0	09/23/2021	ND	204	102	200	14.6	
EXT DRO >C28-C36	<10.0	10.0	09/23/2021	ND					

Surrogate: 1-Chlorooctane 82.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.2 % 38.9-142

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/22/2021	Sampling Date:	09/22/2021
Reported:	09/24/2021	Sampling Type:	Soil
Project Name:	DIXIE QUEEN 001	Sampling Condition:	Cool & Intact
Project Number:	DIXIE QUEEN #1	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 7 @ 2' (H212626-04)

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	09/22/2021	ND	1.82	91.2	2.00	4.33		
Toluene*	<0.050	0.050	09/22/2021	ND	2.00	100	2.00	4.53		
Ethylbenzene*	<0.050	0.050	09/22/2021	ND	1.94	97.2	2.00	3.69		
Total Xylenes*	<0.150	0.150	09/22/2021	ND	5.84	97.3	6.00	3.75		
Total BTEX	<0.300	0.300	09/22/2021	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	336	16.0	09/22/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/23/2021	ND	211	105	200	14.7		
DRO >C10-C28*	<10.0	10.0	09/23/2021	ND	204	102	200	14.6		
EXT DRO >C28-C36	<10.0	10.0	09/23/2021	ND						

Surrogate: 1-Chlorooctane 84.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.4 % 38.9-142

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/22/2021	Sampling Date:	09/22/2021
Reported:	09/24/2021	Sampling Type:	Soil
Project Name:	DIXIE QUEEN 001	Sampling Condition:	Cool & Intact
Project Number:	DIXIE QUEEN #1	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 8 @ 2' (H212626-05)

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	09/22/2021	ND	1.82	91.2	2.00	4.33		
Toluene*	<0.050	0.050	09/22/2021	ND	2.00	100	2.00	4.53		
Ethylbenzene*	<0.050	0.050	09/22/2021	ND	1.94	97.2	2.00	3.69		
Total Xylenes*	<0.150	0.150	09/22/2021	ND	5.84	97.3	6.00	3.75		
Total BTEX	<0.300	0.300	09/22/2021	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	09/22/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/23/2021	ND	211	105	200	14.7		
DRO >C10-C28*	<10.0	10.0	09/23/2021	ND	204	102	200	14.6		
EXT DRO >C28-C36	<10.0	10.0	09/23/2021	ND						

Surrogate: 1-Chlorooctane 82.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.3 % 38.9-142

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- 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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Keene
 Project Manager: Bruce Baker
 Address: _____
 City: Hobbs State: NM Zip: 88240
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: _____
 Project Name: _____
 Project Location: Dixie Green #1
 Sampler Name: Joe Schneider
 FOR LAB USE ONLY

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

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		DATE	TIME	Cool	Other	Other	Other	Other	Other
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE:	COOL								
<u>H212626</u>																			
	1	B3 02'	1	X							9-22	8:20	X						
	2	B4 02'	1	X							9-22	8:22	X						
	3	B5 02'	1	X							9-22	8:04	X						
	4	B7 02'	1	X							9-22	8:26	X						
	5	B1 02'	1	X							9-22	8:28	X						

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Relinquished By: _____ Date: 9-22
 Reinstated By: _____ Date: 8:50
 Received By: _____

Delivered By: (Circle One) Observed Temp. °C 6.0 Sample Condition Cool Intact Yes No
 Corrected Temp. °C _____
 Turnaround Time: _____ Standard Rush
 Thermometer ID #113 Bacteria (only) Sample Condition Cool Intact Yes No
 Correction Factor None Yes No Observed Temp. °C _____
 Corrected Temp. °C _____

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



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

October 19, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: DIXIE QUEEN 001

Enclosed are the results of analyses for samples received by the laboratory on 10/14/21 16:18.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/14/2021	Sampling Date:	10/14/2021
Reported:	10/19/2021	Sampling Type:	Soil
Project Name:	DIXIE QUEEN 001	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Brandi Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 6 @ 1' 6" (H212900-01)

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	10/15/2021	ND	2.14	107	2.00	1.73	
Toluene*	<0.050	0.050	10/15/2021	ND	2.11	105	2.00	7.05	
Ethylbenzene*	<0.050	0.050	10/15/2021	ND	2.11	106	2.00	9.10	
Total Xylenes*	<0.150	0.150	10/15/2021	ND	6.41	107	6.00	7.73	
Total BTEX	<0.300	0.300	10/15/2021	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	1940	16.0	10/15/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/15/2021	ND	219	109	200	0.380	
DRO >C10-C28*	236	10.0	10/15/2021	ND	210	105	200	6.17	
EXT DRO >C28-C36	45.4	10.0	10/15/2021	ND					

Surrogate: 1-Chlorooctane 91.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 98.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: <u>Apex</u>		P.O. #:	
Project Manager: <u>Bruce Burt</u>		Company:	
Address:		Attn:	
City: <u>Hobbs</u>	State: <u>NM</u>	Zip: <u>88240</u>	
Phone #:	Fax #:	Address:	
Project #:	Project Owner:	City:	
Project Name:		State:	
Project Location: <u>Dixie Queen #1</u>		Zip:	
Sample Name: <u>Joe Cassegrate</u>		Phone #:	
FOR LAB USE ONLY		Fax #:	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	CI	EXT TPH	BTEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
H212900	1B1 @ 1' 6"	C	1			X				10-14	5:51	X	X	X

Delivered By: (Circle One)	Observed Temp. °C: <u>10.10</u>	Sample Condition	CHECKED BY:	Turnaround Time:	Standard	Bacteria (only)	Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C: <u>10.1</u>	<input checked="" type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	(Initials) <u>BMS</u>	Thermometer ID #113	Rush <input type="checkbox"/>	<input type="checkbox"/> Yes <input type="checkbox"/> No	Observed Temp. °C
				Correction Factor	<u>-0.5°C</u>		Corrected Temp. °C

Relinquished By: Joe Cassegrate Date: 10-14 Time: 10:18

Received By: Bruce Burt Date: 10-14 Time: 5:51

REMARKS: 5 days as above @ gmail.com

Verbal Result: Yes No Add'l Phone #:

All Results are emailed. Please provide Email address:

FORWARD TO: 10/27/2021

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

South West Elevation

☉ 49°NE (T) ● 32°34'52"N, 103°6'44"W ±13ft ▲ 3566ft



North West Elevation

☉ 142°SE (T) ● 32°34'53"N, 103°6'44"W ±13ft ▲ 3565ft



North West Elevation

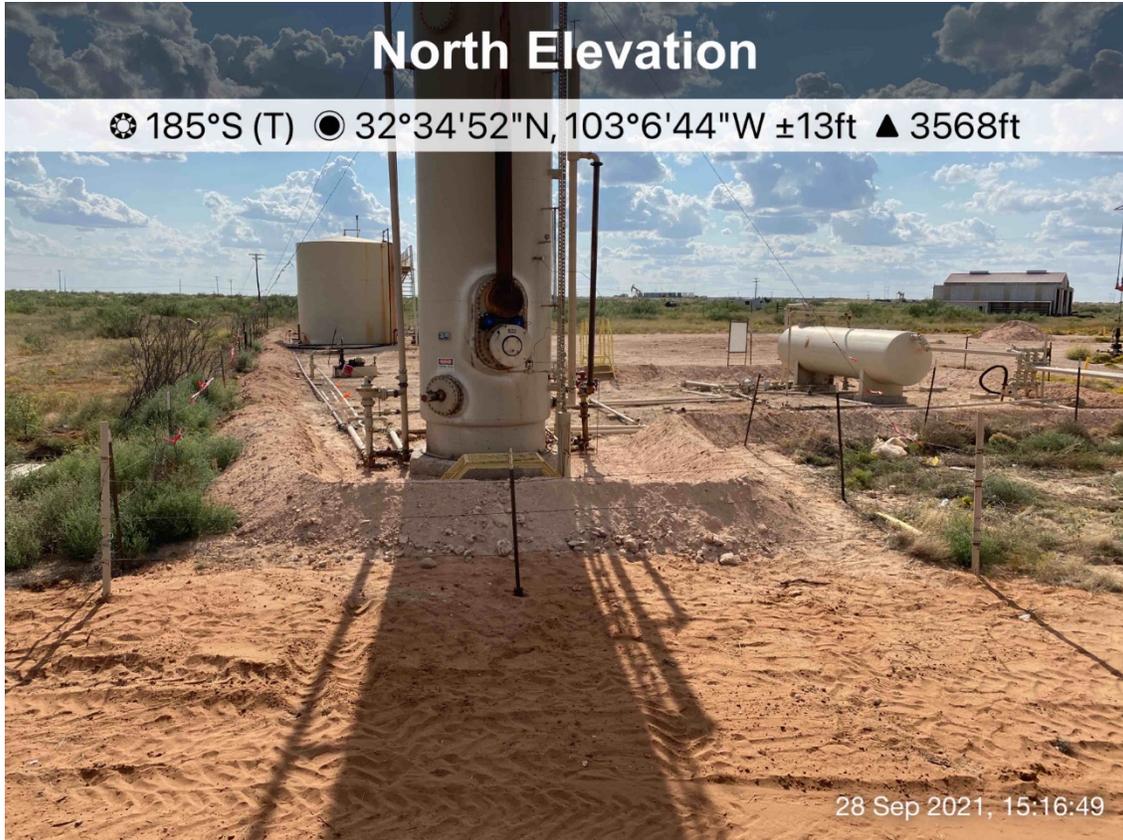
☼ 118°SE (T) ● 32°34'52"N, 103°6'44"W ±26ft ▲ 3568ft



South Elevation

☼ 348°N (T) ● 32°34'52"N, 103°6'44"W ±16ft ▲ 3567ft





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
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 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 58177

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 58177
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	Apache's deferral requests to complete final remediation during any future major construction/alteration or final plugging and abandonment, whichever occurs first is approved. The deferred C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue.	12/1/2021