



October 26, 2020

Mr. Bradford Billings  
State of New Mexico Oil Conservation Division  
1220 South St Francis Drive  
Santa Fe, NM 87505

RE: 2RP-3410 NFE Water Transfer Line

Mr. Billings,

In compliance with 19.15.29.15(B) NMAC and the agreement submitted by Apache Corporation on November 8, 2018, Apache Corporation is submitting information related to closure for the release occurring October 30, 2015. Apache is respectfully submitting the closure report based on remediation and studies occurring in 2020 that demonstrate the site meeting the requirements of the agency. Unless further information is requested by NMOCD, Apache Corporation considers this release closed.

If there are any questions, please feel free to contact me by telephone at 432-631-6982 or by e-mail at [larry.baker@apachecorp.com](mailto:larry.baker@apachecorp.com).

Sincerely,

A handwritten signature in black ink that reads "Larry Baker". The signature is written in a cursive, flowing style.

Larry Baker  
Environmental Technician SR.  
Apache Corporation

Attachment: Closure Report Dated October 26, 2020



303 Veterans Airpark Lane Midland, TX 79705

## **Closure Report**

October 26, 2020

Re: NFE Water Transfer Line  
Case # 2RP-3410

On 10/30/2015 a release occurred due to a vehicle under carriage struck the line resulting in the line to rupture. The release (GPS: 32.829708, -103.894269) is located east of Loco Hills, New Mexico in unit letter N section 17 township 17S range 31E. It is common knowledge that there is no groundwater in township 17S range 31E.

In 2014 the release area was mapped, samples were collected, and field titrated for chlorides. On 10/15/2020 Apache Corporation conducted delineation of the release area. 4 sample points were advanced to a depth of 5 feet. All samples collected were submitted to a commercial laboratory for analysis of chloride and representative samples were submitted to a commercial laboratory for analysis of TPH and BTEX. All samples were below table one standards for releases greater than 100 feet to groundwater. SP 4 at the surface was above the reclamation standard of 600 mg/kg for chlorides in the top 4 feet.

On 10/20/2020 SP 4 was excavated to a depth of 6". Final 5 point bottom and wall composite samples were collected not to exceed 200 square feet and submitted to a commercial laboratory for analysis chloride, TPH, and BTEX. All excavated soil (12 yards) was disposed of at an OCD approved disposal facility. The excavated was backfilled with clean imported top soil to ground surface and contoured to the surrounding area. The disturbed area was re-seed with BLM # 2.

Apache Corporation has completed remediation activities to below table one standards and respectfully request closure of event 2RP-3410.

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

Submitted by;

*Bruce Baker*

**Environmental Technician**

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

**Cell# 432-631-6982**

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

### Release Notification and Corrective Action

**NAB1532454352**

#### OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Apache Corporation <b>873</b>	Contact: Bruce Baker
Address: 2350 W Marland Blvd Hobbs, NM 88240	Telephone No. (432) 631-6982
Facility Name: NFE water transfer line near Lee Federal # 27	Facility Type: Transfer line
Surface Owner: Federal	Mineral Owner: APL No. 30-015-32321

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	17	17S	31E	990'	FSL	1750'	FWL	Eddy

Latitude Longitude

#### NATURE OF RELEASE

Type of Release: produced water	Volume of Release: 14 barrels of produced water	Volume Recovered: 10 barrels recovered
Source of Release: Transfer line	Date and Hour of Occurrence: 10/30/2015	Date and Hour of Discovery: 10/30/2015
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Shelly Tucker (BLM) and Mike Bratcher via email	
By Whom? Bruce Baker	Date and Hour: 11/2/2015 at 9:26 a.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

NOV 19 2015

RECEIVED

Describe Cause of Problem and Remedial Action Taken.\*

A vehicle under carriage struck line resulting in line to rupture. The line was isolated and repaired. A vacuum truck was dispatched to pick up standing fluid. A barbed wire fence was installed to limit vehicle access over the line.

Describe Area Affected and Cleanup Action Taken.\*

The majority of the release was contained on the lease road except approximately 1,000 square feet of pasture.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: <i>Bruce Baker</i>		OIL CONSERVATION DIVISION	
Printed Name: Bruce Baker		Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Environmental Technician		Approval Date: 11/20/15	Expiration Date: N/A
E-mail Address: larry.baker@apachecorp.com		Conditions of Approval:	
Date: 11/19/2015 Phone: (432) 631-6982		Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary

Mediation per O.C.D. Rules & Guidelines  
SUBMIT REMEDIATION PROPOSAL NO  
LATER THAN: 12/20/15

2RP-3410

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>None</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 type="checkbox"/> Yes <input checked="" 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 <b>not</b> 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.

State of New Mexico  
Oil Conservation Division

Page 4

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: 10/26/2020  
email: larry.baker@apachecorp.com Telephone: 432-631-6982

**OCD Only**

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

Incident ID	
District RP	
Facility ID	
Application ID	

## Closure

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

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

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

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

Printed Name: Larry Baker Title: Environmental Tech SR.  
Signature: Larry Baker Date: 10/26/2020  
email: larry.baker@apachecorp.com Telephone: 432-631-6982

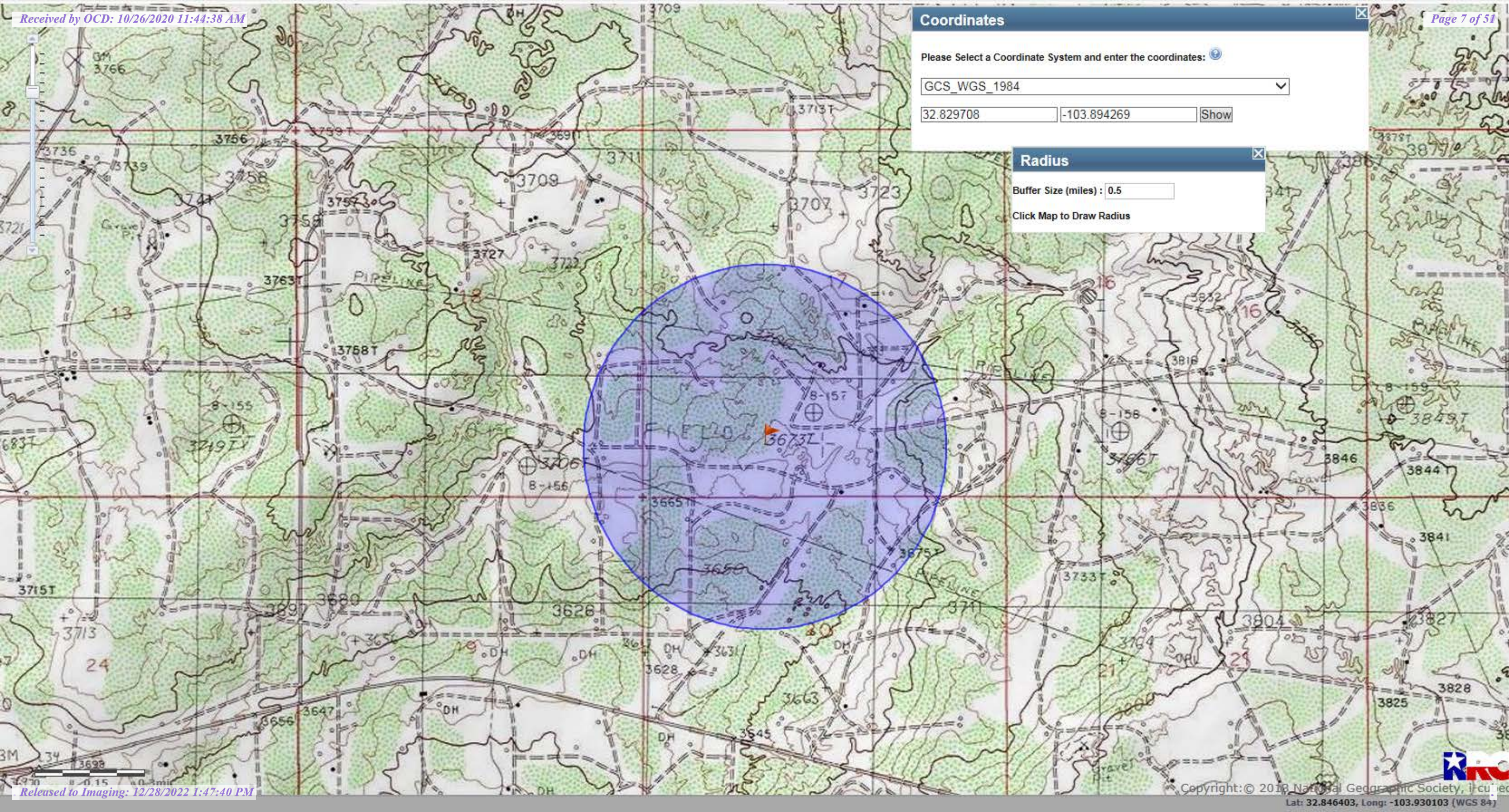
**OCD Only**

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

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

Closure Approved by: Brittany Hall Date: 12/28/2022  
Printed Name: Brittany Hall Title: Environmental Specialist





Coordinates

Please Select a Coordinate System and enter the coordinates:

GCS\_WGS\_1984

32.829708 -103.894269 Show

Radius

Buffer Size (miles) : 0.5

Click Map to Draw Radius





Apache Corp  
NFE Fed Waterline  
GPS 32.82971 -103.89425

**Stain** 

**Map Not To Scale**



## Apache NFE Federal Water Line Field Test Results

**Test Point #1 ---- Surface -- 149.95 Chl**

**6" -- 89.97**

**1ft -- 209.93**

**2ft -- 149.95**

**3ft -- 149.95**

**4ft -- 149.95**

**Test Point #2 ---- Surface -- 1289.60 Chl**

**6" -- 209.93**

**1ft -- 149.95**

**2ft -- 89.97**

**3ft -- 89.97**

**4ft -- 89.97**

**Test Point #3 ---- Surface -- 119.96 Chl**

**6" -- 119.96**

**1ft -- 89.97**

**2ft -- 89.97**

**3ft -- 89.97**

**4ft -- 89.97**

**Test Point #4 ---- Surface -- 209.93 Chl**

**6" -- 209.93**

**1ft -- 209.90**

**2ft -- 149.95**

**3ft -- 89.97**

**4ft -- 89.97**

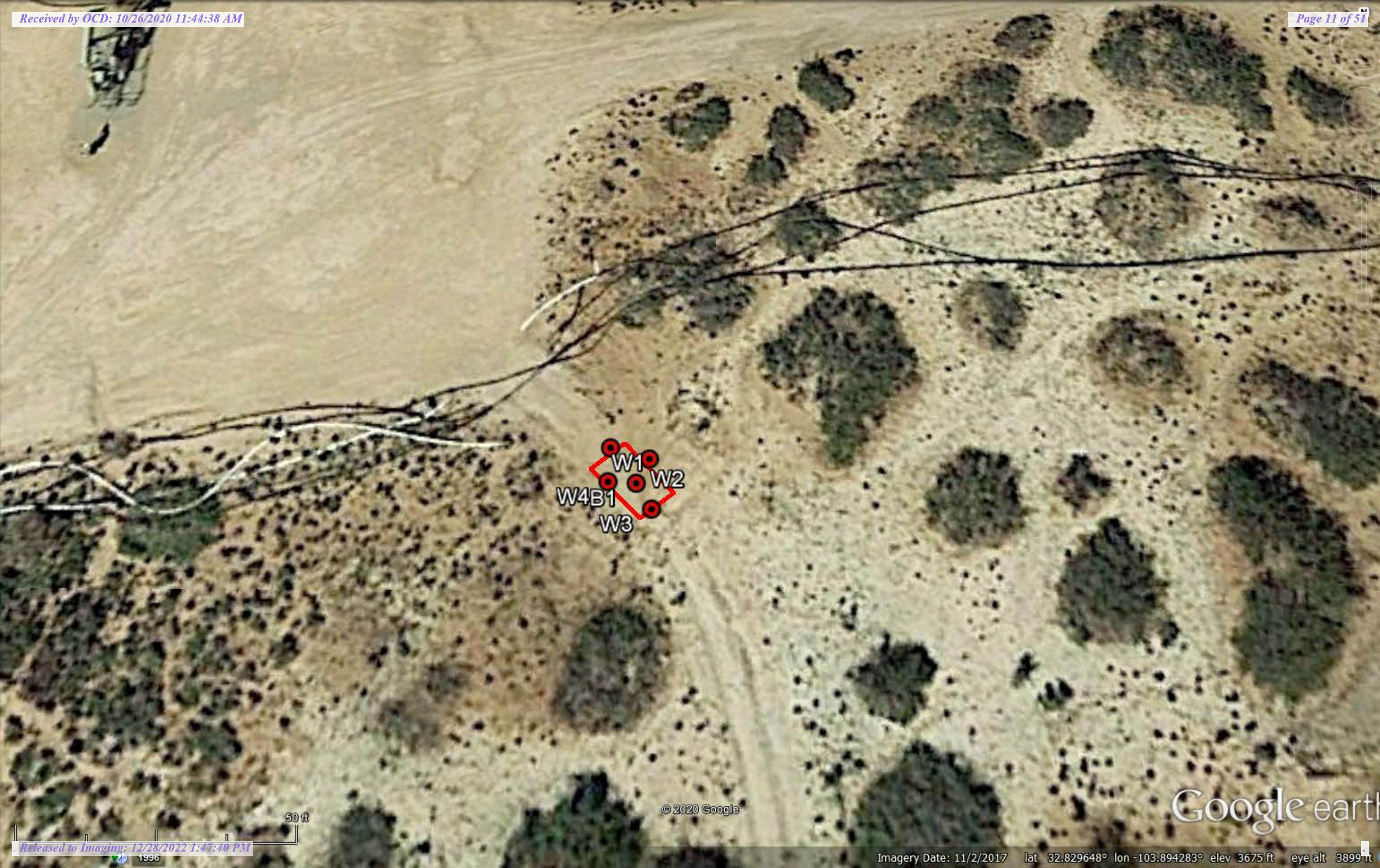




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Google earth



## Delineation Samples

Sample Date	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
10/15/2020	SP 1	Surface	64.0	<0.025	<0.025	<0.025	<0.075	<0.150	<10.0	<10.0	<10.0	32.829708, -103.894269
		1'	32.0	<0.025	<0.025	<0.025	<0.075	<0.150	<10.0	<10.0	<10.0	
		2'	48.0									
		3'	224	<0.025	<0.025	<0.025	<0.075	<0.150	<10.0	<10.0	<10.0	
		4'	224									
		5'	352	<0.025	<0.025	<0.025	<0.075	<0.150	<10.0	<10.0	<10.0	
10/15/2020	SP 2	Surface	<16.0	<0.025	<0.025	<0.025	<0.075	<0.150	<10.0	<10.0	<10.0	32.829754, -103.894215
		1'	32.0	<0.025	<0.025	<0.025	<0.075	<0.150	<10.0	<10.0	<10.0	
		2'	128									
		3'	320	<0.025	<0.025	<0.025	<0.075	<0.150	<10.0	<10.0	<10.0	
		4'	368									
		5'	384	<0.025	<0.025	<0.025	<0.075	<0.150	<10.0	<10.0	<10.0	
10/15/2020	SP 3	Surface	528	<0.025	<0.025	<0.025	<0.075	<0.150	<10.0	<10.0	<10.0	32.829667, -103.894378
		1'	192	<0.025	<0.025	<0.025	<0.075	<0.150	<10.0	<10.0	<10.0	
		2'	592									
		3'	224	<0.025	<0.025	<0.025	<0.075	<0.150	<10.0	<10.0	<10.0	
		4'	112									
		5'	320	0.142	0.433	0.061	0.105	0.74	<10.0	<10.0	<10.0	
10/15/2020	SP 4	Surface	1330	<0.025	<0.025	<0.025	<0.075	<0.150	<10.0	<10.0	<10.0	32.829611, -103.894326
		1'	80.0	<0.025	<0.025	<0.025	<0.075	<0.150	<10.0	<10.0	<10.0	
		2'	144									
		3'	112	<0.025	<0.025	<0.025	<0.075	<0.150	<10.0	<10.0	<10.0	
		4'	144									
		5'	320	<0.025	<0.025	<0.025	<0.075	<0.150	<10.0	17.8	<10.0	

## Final Samples

Sample Date	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
10/20/2020	B1 @ 6"	6"	48.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.829611, -103.894326
10/20/2020	W1		256	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.829634, -103.894344
10/20/2020	W2		192	<0.050	<0.050	0.086	0.396	0.482	<10.0	<10.0	<10.0	32.829627, -103.894317
10/20/2020	W3		144	<0.050	<0.050	0.134	0.66	0.794	<10.0	<10.0	<10.0	32.829595, -103.894315
10/20/2020	W4		32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.829612, -103.894344





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

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October 16, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NFE WATERLINE

Enclosed are the results of analyses for samples received by the laboratory on 10/15/20 16:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](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 "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	10/15/2020	Sampling Date:	10/15/2020
Reported:	10/16/2020	Sampling Type:	Soil
Project Name:	NFE WATERLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SP 1 @ SURFACE (H002752-01)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/16/2020	ND	1.98	98.8	2.00	1.30	
Toluene*	<0.025	0.025	10/16/2020	ND	2.01	100	2.00	0.564	
Ethylbenzene*	<0.025	0.025	10/16/2020	ND	1.92	96.1	2.00	2.34	
Total Xylenes*	<0.075	0.075	10/16/2020	ND	6.04	101	6.00	2.06	
Total BTEX	<0.150	0.150	10/16/2020	ND					

Surrogate: Dibromofluoromethane 108 % 81.7-113

Surrogate: Toluene-d8 103 % 84.4-116

Surrogate: 4-Bromofluorobenzene 97.7 % 62.8-131

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	10/16/2020	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	10/16/2020	ND	212	106	200	0.436	
DRO >C10-C28*	<10.0	10.0	10/16/2020	ND	217	109	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	10/16/2020	ND					

Surrogate: 1-Chlorooctane 97.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 109 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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

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





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

**Analytical Results For:**

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

Received:	10/15/2020	Sampling Date:	10/15/2020
Reported:	10/16/2020	Sampling Type:	Soil
Project Name:	NFE WATERLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SP 1 @ 1' (H002752-02)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/16/2020	ND	1.98	98.8	2.00	1.30	
Toluene*	<0.025	0.025	10/16/2020	ND	2.01	100	2.00	0.564	
Ethylbenzene*	<0.025	0.025	10/16/2020	ND	1.92	96.1	2.00	2.34	
Total Xylenes*	<0.075	0.075	10/16/2020	ND	6.04	101	6.00	2.06	
Total BTEx	<0.150	0.150	10/16/2020	ND					

Surrogate: Dibromofluoromethane 106 % 81.7-113  
 Surrogate: Toluene-d8 103 % 84.4-116  
 Surrogate: 4-Bromofluorobenzene 96.0 % 62.8-131

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	10/16/2020	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	10/16/2020	ND	212	106	200	0.436	
DRO >C10-C28*	<10.0	10.0	10/16/2020	ND	217	109	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	10/16/2020	ND					

Surrogate: 1-Chlorooctane 92.5 % 44.3-144  
 Surrogate: 1-Chlorooctadecane 103 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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

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



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

**Analytical Results For:**

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

Received:	10/15/2020	Sampling Date:	10/15/2020
Reported:	10/16/2020	Sampling Type:	Soil
Project Name:	NFE WATERLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SP 1 @ 2' (H002752-03)**

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	10/16/2020	ND	416	104	400	0.00		

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\*=Accredited Analyte

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





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

**Analytical Results For:**

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

Received:	10/15/2020	Sampling Date:	10/15/2020
Reported:	10/16/2020	Sampling Type:	Soil
Project Name:	NFE WATERLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SP 1 @ 3' (H002752-04)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/16/2020	ND	1.98	98.8	2.00	1.30	
Toluene*	<0.025	0.025	10/16/2020	ND	2.01	100	2.00	0.564	
Ethylbenzene*	<0.025	0.025	10/16/2020	ND	1.92	96.1	2.00	2.34	
Total Xylenes*	<0.075	0.075	10/16/2020	ND	6.04	101	6.00	2.06	
Total BTX	<0.150	0.150	10/16/2020	ND					

Surrogate: Dibromofluoromethane 109 % 81.7-113  
 Surrogate: Toluene-d8 101 % 84.4-116  
 Surrogate: 4-Bromofluorobenzene 95.8 % 62.8-131

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	10/16/2020	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	10/16/2020	ND	212	106	200	0.436	
DRO >C10-C28*	<10.0	10.0	10/16/2020	ND	217	109	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	10/16/2020	ND					

Surrogate: 1-Chlorooctane 90.1 % 44.3-144  
 Surrogate: 1-Chlorooctadecane 100 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/15/2020	Sampling Date:	10/15/2020
Reported:	10/16/2020	Sampling Type:	Soil
Project Name:	NFE WATERLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SP 1 @ 4' (H002752-05)**

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	10/16/2020	ND	416	104	400	0.00		

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





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

**Analytical Results For:**

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

Received:	10/15/2020	Sampling Date:	10/15/2020
Reported:	10/16/2020	Sampling Type:	Soil
Project Name:	NFE WATERLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SP 1 @ 5' (H002752-06)**

BTEx 8260B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/16/2020	ND	1.98	98.8	2.00	1.30	
Toluene*	<0.025	0.025	10/16/2020	ND	2.01	100	2.00	0.564	
Ethylbenzene*	<0.025	0.025	10/16/2020	ND	1.92	96.1	2.00	2.34	
Total Xylenes*	<0.075	0.075	10/16/2020	ND	6.04	101	6.00	2.06	
Total BTEx	<0.150	0.150	10/16/2020	ND					

Surrogate: Dibromofluoromethane 114 % 81.7-113  
 Surrogate: Toluene-d8 100 % 84.4-116  
 Surrogate: 4-Bromofluorobenzene 87.2 % 62.8-131

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/16/2020	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	10/16/2020	ND	212	106	200	0.436	
DRO >C10-C28*	<10.0	10.0	10/16/2020	ND	217	109	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	10/16/2020	ND					

Surrogate: 1-Chlorooctane 94.3 % 44.3-144  
 Surrogate: 1-Chlorooctadecane 105 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/15/2020	Sampling Date:	10/15/2020
Reported:	10/16/2020	Sampling Type:	Soil
Project Name:	NFE WATERLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SP 2 @ SURFACE (H002752-07)**

BTEx 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	10/16/2020	ND	1.98	98.8	2.00	1.30		
Toluene*	<0.025	0.025	10/16/2020	ND	2.01	100	2.00	0.564		
Ethylbenzene*	<0.025	0.025	10/16/2020	ND	1.92	96.1	2.00	2.34		
Total Xylenes*	<0.075	0.075	10/16/2020	ND	6.04	101	6.00	2.06		
Total BTEx	<0.150	0.150	10/16/2020	ND						

Surrogate: Dibromofluoromethane 109 % 81.7-113  
 Surrogate: Toluene-d8 101 % 84.4-116  
 Surrogate: 4-Bromofluorobenzene 96.2 % 62.8-131

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	10/16/2020	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	10/16/2020	ND	212	106	200	0.436	
DRO >C10-C28*	<10.0	10.0	10/16/2020	ND	217	109	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	10/16/2020	ND					

Surrogate: 1-Chlorooctane 89.8 % 44.3-144  
 Surrogate: 1-Chlorooctadecane 100 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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





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

**Analytical Results For:**

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

Received:	10/15/2020	Sampling Date:	10/15/2020
Reported:	10/16/2020	Sampling Type:	Soil
Project Name:	NFE WATERLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SP 2 @ 1' (H002752-08)**

BTX 8260B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/16/2020	ND	1.98	98.8	2.00	1.30	
Toluene*	<0.025	0.025	10/16/2020	ND	2.01	100	2.00	0.564	
Ethylbenzene*	<0.025	0.025	10/16/2020	ND	1.92	96.1	2.00	2.34	
Total Xylenes*	<0.075	0.075	10/16/2020	ND	6.04	101	6.00	2.06	
Total BTX	<0.150	0.150	10/16/2020	ND					

Surrogate: Dibromofluoromethane 110 % 81.7-113  
 Surrogate: Toluene-d8 102 % 84.4-116  
 Surrogate: 4-Bromofluorobenzene 95.7 % 62.8-131

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	10/16/2020	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	10/16/2020	ND	212	106	200	0.436	
DRO >C10-C28*	<10.0	10.0	10/16/2020	ND	217	109	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	10/16/2020	ND					

Surrogate: 1-Chlorooctane 91.7 % 44.3-144  
 Surrogate: 1-Chlorooctadecane 102 % 42.2-156

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



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

**Analytical Results For:**

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

Received: 10/15/2020  
 Reported: 10/16/2020  
 Project Name: NFE WATERLINE  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 10/15/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 @ 2' (H002752-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	10/16/2020	ND	416	104	400	0.00		

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



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

**Analytical Results For:**

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

Received:	10/15/2020	Sampling Date:	10/15/2020
Reported:	10/16/2020	Sampling Type:	Soil
Project Name:	NFE WATERLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SP 2 @ 3' (H002752-10)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/16/2020	ND	1.98	98.8	2.00	1.30	
Toluene*	<0.025	0.025	10/16/2020	ND	2.01	100	2.00	0.564	
Ethylbenzene*	<0.025	0.025	10/16/2020	ND	1.92	96.1	2.00	2.34	
Total Xylenes*	<0.075	0.075	10/16/2020	ND	6.04	101	6.00	2.06	
Total BTX	<0.150	0.150	10/16/2020	ND					

Surrogate: Dibromofluoromethane 111 % 81.7-113  
 Surrogate: Toluene-d8 100 % 84.4-116  
 Surrogate: 4-Bromofluorobenzene 98.1 % 62.8-131

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	10/16/2020	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	10/16/2020	ND	212	106	200	0.436	
DRO >C10-C28*	<10.0	10.0	10/16/2020	ND	217	109	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	10/16/2020	ND					

Surrogate: 1-Chlorooctane 90.5 % 44.3-144  
 Surrogate: 1-Chlorooctadecane 100 % 42.2-156

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





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

**Analytical Results For:**

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

Received:	10/15/2020	Sampling Date:	10/15/2020
Reported:	10/16/2020	Sampling Type:	Soil
Project Name:	NFE WATERLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SP 2 @ 4' (H002752-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	10/16/2020	ND	416	104	400	0.00		

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



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

**Analytical Results For:**

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

Received:	10/15/2020	Sampling Date:	10/15/2020
Reported:	10/16/2020	Sampling Type:	Soil
Project Name:	NFE WATERLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SP 2 @ 5' (H002752-12)**

BTX 8260B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/16/2020	ND	1.98	98.8	2.00	1.30	
Toluene*	<0.025	0.025	10/16/2020	ND	2.01	100	2.00	0.564	
Ethylbenzene*	<0.025	0.025	10/16/2020	ND	1.92	96.1	2.00	2.34	
Total Xylenes*	<0.075	0.075	10/16/2020	ND	6.04	101	6.00	2.06	
Total BTX	<0.150	0.150	10/16/2020	ND					

Surrogate: Dibromofluoromethane 124 % 81.7-113  
 Surrogate: Toluene-d8 99.8 % 84.4-116  
 Surrogate: 4-Bromofluorobenzene 104 % 62.8-131

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	10/16/2020	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	10/16/2020	ND	214	107	200	3.85	
DRO >C10-C28*	<10.0	10.0	10/16/2020	ND	203	102	200	7.56	
EXT DRO >C28-C36	<10.0	10.0	10/16/2020	ND					

Surrogate: 1-Chlorooctane 89.0 % 44.3-144  
 Surrogate: 1-Chlorooctadecane 92.7 % 42.2-156

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





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

**Analytical Results For:**

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

Received:	10/15/2020	Sampling Date:	10/15/2020
Reported:	10/16/2020	Sampling Type:	Soil
Project Name:	NFE WATERLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SP 3 @ SURFACE (H002752-13)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/16/2020	ND	1.98	98.8	2.00	1.30	
Toluene*	<0.025	0.025	10/16/2020	ND	2.01	100	2.00	0.564	
Ethylbenzene*	<0.025	0.025	10/16/2020	ND	1.92	96.1	2.00	2.34	
Total Xylenes*	<0.075	0.075	10/16/2020	ND	6.04	101	6.00	2.06	
Total BTX	<0.150	0.150	10/16/2020	ND					

Surrogate: Dibromofluoromethane 106 % 81.7-113  
 Surrogate: Toluene-d8 102 % 84.4-116  
 Surrogate: 4-Bromofluorobenzene 94.2 % 62.8-131

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	10/16/2020	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	10/16/2020	ND	214	107	200	3.85	
DRO >C10-C28*	<10.0	10.0	10/16/2020	ND	203	102	200	7.56	
EXT DRO >C28-C36	<10.0	10.0	10/16/2020	ND					

Surrogate: 1-Chlorooctane 90.2 % 44.3-144  
 Surrogate: 1-Chlorooctadecane 94.6 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/15/2020	Sampling Date:	10/15/2020
Reported:	10/16/2020	Sampling Type:	Soil
Project Name:	NFE WATERLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SP 3 @ 1' (H002752-14)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/16/2020	ND	1.98	98.8	2.00	1.30	
Toluene*	<0.025	0.025	10/16/2020	ND	2.01	100	2.00	0.564	
Ethylbenzene*	<0.025	0.025	10/16/2020	ND	1.92	96.1	2.00	2.34	
Total Xylenes*	<0.075	0.075	10/16/2020	ND	6.04	101	6.00	2.06	
Total BTX	<0.150	0.150	10/16/2020	ND					

Surrogate: Dibromofluoromethane 111 % 81.7-113  
 Surrogate: Toluene-d8 101 % 84.4-116  
 Surrogate: 4-Bromofluorobenzene 92.0 % 62.8-131

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/16/2020	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	10/16/2020	ND	214	107	200	3.85	
DRO >C10-C28*	<10.0	10.0	10/16/2020	ND	203	102	200	7.56	
EXT DRO >C28-C36	<10.0	10.0	10/16/2020	ND					

Surrogate: 1-Chlorooctane 92.0 % 44.3-144  
 Surrogate: 1-Chlorooctadecane 98.7 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received: 10/15/2020  
 Reported: 10/16/2020  
 Project Name: NFE WATERLINE  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 10/15/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 @ 2' (H002752-15)****Chloride, SM4500Cl-B****mg/kg****Analyzed By: GM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>592</b>	16.0	10/16/2020	ND	416	104	400	0.00	QM-07

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





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

**Analytical Results For:**

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

Received:	10/15/2020	Sampling Date:	10/15/2020
Reported:	10/16/2020	Sampling Type:	Soil
Project Name:	NFE WATERLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SP 3 @ 3' (H002752-16)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/16/2020	ND	1.98	98.8	2.00	1.30	
Toluene*	<0.025	0.025	10/16/2020	ND	2.01	100	2.00	0.564	
Ethylbenzene*	<0.025	0.025	10/16/2020	ND	1.92	96.1	2.00	2.34	
Total Xylenes*	<0.075	0.075	10/16/2020	ND	6.04	101	6.00	2.06	
Total BTX	<0.150	0.150	10/16/2020	ND					

Surrogate: Dibromofluoromethane 108 % 81.7-113  
 Surrogate: Toluene-d8 101 % 84.4-116  
 Surrogate: 4-Bromofluorobenzene 93.1 % 62.8-131

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/16/2020	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	10/16/2020	ND	214	107	200	3.85	
DRO >C10-C28*	<10.0	10.0	10/16/2020	ND	203	102	200	7.56	
EXT DRO >C28-C36	<10.0	10.0	10/16/2020	ND					

Surrogate: 1-Chlorooctane 90.0 % 44.3-144  
 Surrogate: 1-Chlorooctadecane 93.4 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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



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

**Analytical Results For:**

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

Received:	10/15/2020	Sampling Date:	10/15/2020
Reported:	10/16/2020	Sampling Type:	Soil
Project Name:	NFE WATERLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SP 3 @ 4' (H002752-17)**

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	10/16/2020	ND	416	104	400	0.00		

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



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

**Analytical Results For:**

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

Received:	10/15/2020	Sampling Date:	10/15/2020
Reported:	10/16/2020	Sampling Type:	Soil
Project Name:	NFE WATERLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SP 3 @ 5' (H002752-18)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.142</b>	0.025	10/16/2020	ND	1.98	98.8	2.00	1.30	
<b>Toluene*</b>	<b>0.433</b>	0.025	10/16/2020	ND	2.01	100	2.00	0.564	
<b>Ethylbenzene*</b>	<b>0.061</b>	0.025	10/16/2020	ND	1.92	96.1	2.00	2.34	
<b>Total Xylenes*</b>	<b>0.105</b>	0.075	10/16/2020	ND	6.04	101	6.00	2.06	
<b>Total BTX</b>	<b>0.740</b>	0.150	10/16/2020	ND					

Surrogate: Dibromofluoromethane 112 % 81.7-113  
 Surrogate: Toluene-d8 103 % 84.4-116  
 Surrogate: 4-Bromofluorobenzene 88.1 % 62.8-131

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>320</b>	16.0	10/16/2020	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	10/16/2020	ND	214	107	200	3.85	
DRO >C10-C28*	<10.0	10.0	10/16/2020	ND	203	102	200	7.56	
EXT DRO >C28-C36	<10.0	10.0	10/16/2020	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-144  
 Surrogate: 1-Chlorooctadecane 106 % 42.2-156

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





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

**Analytical Results For:**

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

Received:	10/15/2020	Sampling Date:	10/15/2020
Reported:	10/16/2020	Sampling Type:	Soil
Project Name:	NFE WATERLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SP 4 @ SURFACE (H002752-19)**

BTEx 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.025	0.025	10/16/2020	ND	1.98	98.8	2.00	1.30		
Toluene*	<0.025	0.025	10/16/2020	ND	2.01	100	2.00	0.564		
Ethylbenzene*	<0.025	0.025	10/16/2020	ND	1.92	96.1	2.00	2.34		
Total Xylenes*	<0.075	0.075	10/16/2020	ND	6.04	101	6.00	2.06		
Total BTEx	<0.150	0.150	10/16/2020	ND						

Surrogate: Dibromofluoromethane 112 % 81.7-113  
 Surrogate: Toluene-d8 103 % 84.4-116  
 Surrogate: 4-Bromofluorobenzene 92.1 % 62.8-131

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1330	16.0	10/16/2020	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	10/16/2020	ND	214	107	200	3.85	
DRO >C10-C28*	<10.0	10.0	10/16/2020	ND	203	102	200	7.56	
EXT DRO >C28-C36	<10.0	10.0	10/16/2020	ND					

Surrogate: 1-Chlorooctane 99.6 % 44.3-144  
 Surrogate: 1-Chlorooctadecane 107 % 42.2-156

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



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

**Analytical Results For:**

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

Received:	10/15/2020	Sampling Date:	10/15/2020
Reported:	10/16/2020	Sampling Type:	Soil
Project Name:	NFE WATERLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SP 4 @ 1' (H002752-20)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/16/2020	ND	1.98	98.8	2.00	1.30	
Toluene*	<0.025	0.025	10/16/2020	ND	2.01	100	2.00	0.564	
Ethylbenzene*	<0.025	0.025	10/16/2020	ND	1.92	96.1	2.00	2.34	
Total Xylenes*	<0.075	0.075	10/16/2020	ND	6.04	101	6.00	2.06	
Total BTEX	<0.150	0.150	10/16/2020	ND					

Surrogate: Dibromofluoromethane 112 % 81.7-113  
 Surrogate: Toluene-d8 101 % 84.4-116  
 Surrogate: 4-Bromofluorobenzene 92.1 % 62.8-131

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/16/2020	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	10/16/2020	ND	214	107	200	3.85	
DRO >C10-C28*	<10.0	10.0	10/16/2020	ND	203	102	200	7.56	
EXT DRO >C28-C36	<10.0	10.0	10/16/2020	ND					

Surrogate: 1-Chlorooctane 95.2 % 44.3-144  
 Surrogate: 1-Chlorooctadecane 104 % 42.2-156

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



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

**Analytical Results For:**

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

Received: 10/15/2020  
 Reported: 10/16/2020  
 Project Name: NFE WATERLINE  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 10/15/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 4 @ 2' (H002752-21)**

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	10/16/2020	ND	416	104	400	0.00	

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





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

**Analytical Results For:**

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

Received:	10/15/2020	Sampling Date:	10/15/2020
Reported:	10/16/2020	Sampling Type:	Soil
Project Name:	NFE WATERLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SP 4 @ 3' (H002752-22)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/16/2020	ND	1.98	98.8	2.00	1.30	
Toluene*	<0.025	0.025	10/16/2020	ND	2.01	100	2.00	0.564	
Ethylbenzene*	<0.025	0.025	10/16/2020	ND	1.92	96.1	2.00	2.34	
Total Xylenes*	<0.075	0.075	10/16/2020	ND	6.04	101	6.00	2.06	
Total BTX	<0.150	0.150	10/16/2020	ND					

Surrogate: Dibromofluoromethane 110 % 81.7-113  
 Surrogate: Toluene-d8 101 % 84.4-116  
 Surrogate: 4-Bromofluorobenzene 88.0 % 62.8-131

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	10/16/2020	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	10/16/2020	ND	214	107	200	3.85	
DRO >C10-C28*	<10.0	10.0	10/16/2020	ND	203	102	200	7.56	
EXT DRO >C28-C36	<10.0	10.0	10/16/2020	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-144  
 Surrogate: 1-Chlorooctadecane 111 % 42.2-156

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



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

**Analytical Results For:**

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

Received:	10/15/2020	Sampling Date:	10/15/2020
Reported:	10/16/2020	Sampling Type:	Soil
Project Name:	NFE WATERLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SP 4 @ 4' (H002752-23)**

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	10/16/2020	ND	416	104	400	0.00		

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



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

**Analytical Results For:**

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

Received:	10/15/2020	Sampling Date:	10/15/2020
Reported:	10/16/2020	Sampling Type:	Soil
Project Name:	NFE WATERLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: SP 4 @ 5' (H002752-24)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	10/16/2020	ND	1.98	98.8	2.00	1.30	
Toluene*	<0.025	0.025	10/16/2020	ND	2.01	100	2.00	0.564	
Ethylbenzene*	<0.025	0.025	10/16/2020	ND	1.92	96.1	2.00	2.34	
Total Xylenes*	<0.075	0.075	10/16/2020	ND	6.04	101	6.00	2.06	
Total BTX	<0.150	0.150	10/16/2020	ND					

Surrogate: Dibromofluoromethane 111 % 81.7-113  
 Surrogate: Toluene-d8 103 % 84.4-116  
 Surrogate: 4-Bromofluorobenzene 88.0 % 62.8-131

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	10/16/2020	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	10/16/2020	ND	214	107	200	3.85	
DRO >C10-C28*	17.8	10.0	10/16/2020	ND	203	102	200	7.56	
EXT DRO >C28-C36	<10.0	10.0	10/16/2020	ND					

Surrogate: 1-Chlorooctane 95.0 % 44.3-144  
 Surrogate: 1-Chlorooctadecane 103 % 42.2-156

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





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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

---

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



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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





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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Apach Corporation</u>		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: <u>Grace Baker</u>		Company:					
Address:		Attn:					
City:		Address:					
Phone #:		City:					
Project #:		State:					
Project Name: <u>NFE WATER LANE</u>		Zip:					
Project Location: <u>NFE WATER LANE</u>		Phone #:					
Sampler Name: <u>Jeff Brown</u>		Fax #:					

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	CL -	BTEX	EXT. TPH							
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:												ICE / COOL
<u>H002352</u>																						
11	SP2 @ 4'																					
12	SP2 @ 5'																					
13	SP3 @ Surface																					
14	SP3 @ 1'																					
15	SP3 @ 2'																					
16	SP3 @ 3'																					
17	SP3 @ 4'																					
18	SP3 @ 5'																					
19	SP4 @ Surface																					
20	SP4 @ 1'																					

Relinquished By: <u>Jeff Brown</u>		Date: <u>10/15/20</u>	Received By: <u>Heather Delaney</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: <u>1625</u>		Date: <u>10/15/20</u>	Received By: <u>Heather Delaney</u>	All Results are emailed. Please provide Email address:	
Time:		Date:	Received By:	REMARKS:	

Delivered By: (Circle One)	Observed Temp. °C <u>3.0</u>	Sample Condition	CHECKED BY: (Initials)	Turnaround Time:	Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>	Bacteria (only) <input type="checkbox"/>	Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool <input type="checkbox"/> Intact <input type="checkbox"/>		Thermometer ID # <u>797</u>	# <u>113</u>	Cool <input type="checkbox"/> Intact <input type="checkbox"/>	Observed Temp. °C
		No <input type="checkbox"/> Yes <input type="checkbox"/>	<u>JD</u>	Correction Factor + or - <u>10/15/20</u>		No <input type="checkbox"/> Yes <input type="checkbox"/>	Corrected Temp. °C

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(575) 393-2326 FAX (575) 393-2476

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]





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

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October 21, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NFE WATERLINE

Enclosed are the results of analyses for samples received by the laboratory on 10/20/20 17:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](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:	10/20/2020	Sampling Date:	10/20/2020
Reported:	10/21/2020	Sampling Type:	Soil
Project Name:	NFE WATERLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: B1 @ 6" (H002784-01)**

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	10/21/2020	ND	2.03	102	2.00	4.66	
Toluene*	<0.050	0.050	10/21/2020	ND	2.03	101	2.00	5.71	
Ethylbenzene*	<0.050	0.050	10/21/2020	ND	1.95	97.4	2.00	4.81	
Total Xylenes*	<0.150	0.150	10/21/2020	ND	5.67	94.4	6.00	3.13	
Total BTX	<0.300	0.300	10/21/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 73.3-129

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	10/21/2020	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/21/2020	ND	225	112	200	0.142	
DRO >C10-C28*	<10.0	10.0	10/21/2020	ND	218	109	200	1.18	
EXT DRO >C28-C36	<10.0	10.0	10/21/2020	ND					

Surrogate: 1-Chlorooctane 121 % 44.3-144

Surrogate: 1-Chlorooctadecane 120 % 42.2-156

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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:	10/20/2020	Sampling Date:	10/20/2020
Reported:	10/21/2020	Sampling Type:	Soil
Project Name:	NFE WATERLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: W 1 (H002784-02)**

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	10/21/2020	ND	2.03	102	2.00	4.66	
Toluene*	<0.050	0.050	10/21/2020	ND	2.03	101	2.00	5.71	
Ethylbenzene*	<0.050	0.050	10/21/2020	ND	1.95	97.4	2.00	4.81	
Total Xylenes*	<0.150	0.150	10/21/2020	ND	5.67	94.4	6.00	3.13	
Total BTX	<0.300	0.300	10/21/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/21/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/21/2020	ND	225	112	200	0.142	
DRO >C10-C28*	<10.0	10.0	10/21/2020	ND	218	109	200	1.18	
EXT DRO >C28-C36	<10.0	10.0	10/21/2020	ND					

Surrogate: 1-Chlorooctane 126 % 44.3-144

Surrogate: 1-Chlorooctadecane 123 % 42.2-156

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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:	10/20/2020	Sampling Date:	10/20/2020
Reported:	10/21/2020	Sampling Type:	Soil
Project Name:	NFE WATERLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: W 2 (H002784-03)**

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	10/21/2020	ND	2.03	102	2.00	4.66	
Toluene*	<0.050	0.050	10/21/2020	ND	2.03	101	2.00	5.71	
Ethylbenzene*	0.086	0.050	10/21/2020	ND	1.95	97.4	2.00	4.81	
Total Xylenes*	0.396	0.150	10/21/2020	ND	5.67	94.4	6.00	3.13	
Total BTX	0.482	0.300	10/21/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/21/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/21/2020	ND	225	112	200	0.142	
DRO >C10-C28*	<10.0	10.0	10/21/2020	ND	218	109	200	1.18	
EXT DRO >C28-C36	<10.0	10.0	10/21/2020	ND					

Surrogate: 1-Chlorooctane 127 % 44.3-144

Surrogate: 1-Chlorooctadecane 125 % 42.2-156

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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:	10/20/2020	Sampling Date:	10/20/2020
Reported:	10/21/2020	Sampling Type:	Soil
Project Name:	NFE WATERLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

**Sample ID: W 3 (H002784-04)**

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	10/21/2020	ND	2.03	102	2.00	4.66	
Toluene*	<0.050	0.050	10/21/2020	ND	2.03	101	2.00	5.71	
Ethylbenzene*	0.134	0.050	10/21/2020	ND	1.95	97.4	2.00	4.81	
Total Xylenes*	0.660	0.150	10/21/2020	ND	5.67	94.4	6.00	3.13	
Total BTEX	0.794	0.300	10/21/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

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	10/21/2020	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/21/2020	ND	225	112	200	0.142	
DRO >C10-C28*	<10.0	10.0	10/21/2020	ND	218	109	200	1.18	
EXT DRO >C28-C36	<10.0	10.0	10/21/2020	ND					

Surrogate: 1-Chlorooctane 132 % 44.3-144

Surrogate: 1-Chlorooctadecane 128 % 42.2-156

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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: 10/20/2020  
 Reported: 10/21/2020  
 Project Name: NFE WATERLINE  
 Project Number: NONE GIVEN  
 Project Location: NONE GIVEN

Sampling Date: 10/20/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W 4 (H002784-05)**

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	10/21/2020	ND	2.03	102	2.00	4.66	
Toluene*	<0.050	0.050	10/21/2020	ND	2.03	101	2.00	5.71	
Ethylbenzene*	<0.050	0.050	10/21/2020	ND	1.95	97.4	2.00	4.81	
Total Xylenes*	<0.150	0.150	10/21/2020	ND	5.67	94.4	6.00	3.13	
Total BTX	<0.300	0.300	10/21/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 73.3-129

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	10/21/2020	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/21/2020	ND	225	112	200	0.142	
DRO >C10-C28*	<10.0	10.0	10/21/2020	ND	218	109	200	1.18	
EXT DRO >C28-C36	<10.0	10.0	10/21/2020	ND					

Surrogate: 1-Chlorooctane 118 % 44.3-144

Surrogate: 1-Chlorooctadecane 117 % 42.2-156

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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

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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



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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> <i>Apache Corporation</i> <b>Project Manager:</b> <i>Bruce Baker</i> <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b> <b>Project #:</b> <b>Project Name:</b> <i>NITE WATERLINE</i> <b>Project Location:</b> <i>NITE WATERLINE</i> <b>Sampler Name:</b> <i>Jeff Rye</i>				<b>BILL TO</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>ANALYSIS REQUEST</b>			
<b>Lab I.D.</b> <b>Sample I.D.</b>		<b>(G)RAB OR (C)OMP.</b> <b># CONTAINERS</b>	<b>MATRIX</b> GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		<b>PRESERV.</b> ACID/BASE: ICE / COOL OTHER:	<b>SAMPLING</b> <b>DATE</b> <b>TIME</b>	<b>CL -</b> <b>BTEX</b> <b>EXT. TPH</b>				
<i>H002784</i> 1 <i>B1 @ 6"</i> 2 <i>W1</i> 3 <i>W2</i> 4 <i>W3</i> 5 <i>W4</i>		C C C C C	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓	10/26/20 1530 10/26/20 1531 10/26/20 1502 10/26/20 1502 10/26/20 1532	✓ ✓ ✓ ✓ ✓				
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.											
<b>Relinquished By:</b> <i>Jeff Rye</i>		<b>Date:</b> <i>10/26/20</i> <b>Time:</b> <i>1530</i>		<b>Received By:</b> <i>Sharon Stalder</i>		<b>Date:</b> <i>10/26/20</i> <b>Time:</b> <i>1725</i>		<b>REMARKS:</b>			
<b>Delivered By:</b> (Circle One) Sampler - UPS - Bus - Other:		<b>Observed Temp. °C</b> <i>3.9</i> <b>Corrected Temp. °C</b>		<b>Sample Condition</b> Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<b>CHECKED BY:</b> <i>TS.</i>		<b>Turnaround Time:</b> <b>Standard</b> <input checked="" type="checkbox"/> <b>Rush</b> <input type="checkbox"/> <b>Thermometer ID #113</b> <b>Correction Factor</b> None			
<b>Relinquished By:</b> <i>Jeff Rye</i>		<b>Date:</b> <i>10/26/20</i> <b>Time:</b> <i>1725</i>		<b>Received By:</b> <i>Sharon Stalder</i>		<b>Date:</b> <i>10/26/20</i> <b>Time:</b> <i>1725</i>		<b>REMARKS:</b>			

FORM 1000 R-3 10/09/20

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





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

CONDITIONS  
  
Action 10843

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 10843
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bhall	None	12/28/2022