



October 24, 2020

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

RE: 2RP-1673 Lee Federal Battery

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 April 1, 2013. 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 24, 2020



303 Veterans Airpark Lane Midland, TX 79705

## **Closure Report**

October 24, 2020

Re: Lee Federal Battery  
Case # 2RP-1673

On 4/1/2013 a release occurred due to a hole was found on the water dump line. The entire release was contained inside the secondary containment. The release (GPS: 32.822721, - 103.897515) is located east of Loco Hills, New Mexico in unit letter E section 20 township 17S range 31E. It is common knowledge that township 17S range 31E has no groundwater.

A new lined facility was constructed west of the original battery. On 9/24/2020 Apache Corporation conducted delineation activities in the area of the original battery utilizing a hand auger. 6 sample points were advanced to a depth of 2 feet and 3 horizontal 5 point surface composite samples were collected not to exceed 200 square feet. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Laboratory results for TPH at SP 1 were above table one standards for releases greater than 100 feet to groundwater.

On 10/8/2020 the area around SP 1 was excavated to a depth of 1 foot. Final 5 point bottom and wall samples were collected not to exceed 200 square feet. All excavated material (12 yards) was hauled to an OCD approved disposal facility. The excavation was backfilled with clean imported caliche to ground surface.

On 10/21/2020 further delineation activities were conducted due to evidence from 2014 that another area was impacted near the storage tanks. 3 sample points were advanced to a depth of 2 feet and 2 horizontal 5 point surface composite samples were collected not to exceed 200 square feet. All samples collected were submitted to a commercial laboratory for chloride, TPH, and BTEX.

Apache Corporation has completed remediation to below table one standards and respectfully request that event 2RP-1673 be closed.

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

Submitted by;

*Bruce Baker*

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

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, 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

RECEIVED

MAY 24 2013

Form C-141

Revised October 10, 2003

NMOCD ARTESIA

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

## Release Notification and Corrective Action

NJM W1315529807

## OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Apache Corporation 873	Contact	Craig Maxwell
Address	2350 W. Marland Blvd. Hobbs, NM 88240	Telephone No.	(575) 393-7106
Facility Name	Lee Federal Tank Battery 30-015-30268	Facility Type	Tank Battery

Surface Owner	BLM	Mineral Owner		Lease No.	
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## LOCATION OF RELEASE

\* Please include API# \*

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	20	17S	31E	1662'	FNL	939'	FWL	Eddy

Latitude 32°49'21.796"N Longitude 103°53'51.068"W

## NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	20 bbls	Volume Recovered	15 bbls
Source of Release	Water Dump Line	Date and Hour of Occurrence	3/31/13 7:15 am		
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required		If YES, To Whom? Mike Bratcher		
By Whom?	Natalie Gladden		Date and Hour April 1 <sup>st</sup> , 2013 6:43 am		
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.*					

Describe Cause of Problem and Remedial Action Taken.\* A hole was found on the water dump line due to corrosion. Approximately 20 bbls of produced water was released. A vacuum truck was called to the site and recovered 15 bbls of the produced water. The line was isolated to the two FWKO's and the three production treaters and the wells were shut in while the line was repaired.

Describe Area Affected and Cleanup Action Taken.\* A total of 537 sq ft of area was affected inside the battery's berm. RECS personnel were on site on April 1<sup>st</sup>, 2013 to take samples of the release area. The surface samples at the site were taken to a commercial laboratory for analysis of chloride and hydrocarbons. The facility will be upgraded in the near future. Once that action is completed, remediation activities will begin.

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.

## OIL CONSERVATION DIVISION

Signature: <i>Craig Maxwell</i>	Approved by District Supervisor: <i>Mike Bratcher</i>	
Printed Name: Craig Maxwell	Signed By	
Title: Production Foreman	Approval Date: JUN 04 2013	Expiration Date:
E-mail Address: Craig.maxwell@apachecorp.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 5-24-13 Phone: (575) 393-7106		

\* Attach Additional Sheets If Necessary

Remediation per OCD Rule &  
Guidelines. SUBMIT REMEDIATION  
PROPOSAL NO LATER THAN:

*July 4, 2013*

2RP-1673

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: 10/24/2020  
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 OCD 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: 10/24/2020

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: 2/8/2023

Printed Name: Brittany Hall

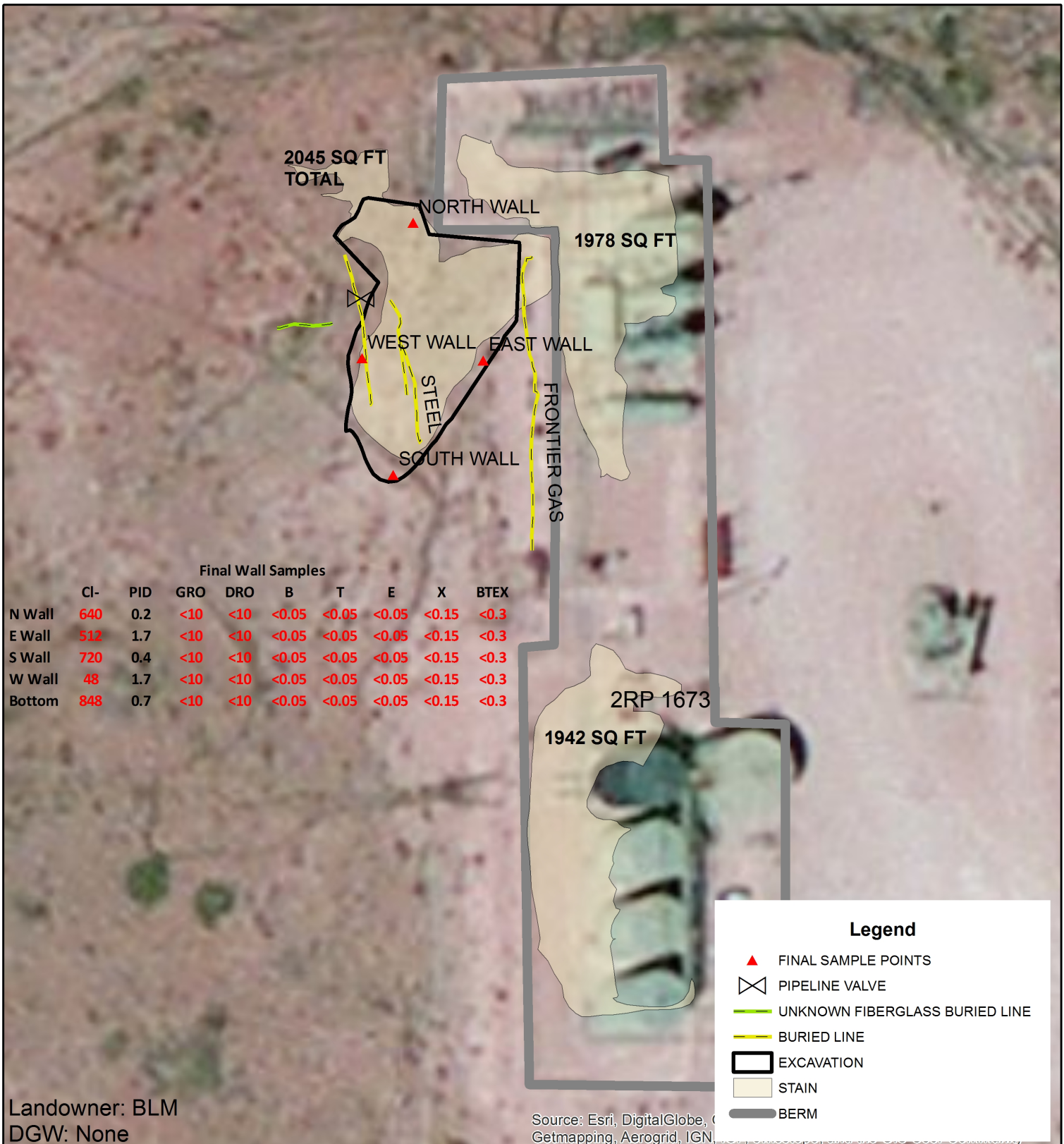
Title: Environmental Specialist





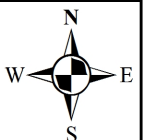


## Excavation



## APACHE LEE FEDERAL BATTERY

UL/E SECTION 20  
T-17-S R-31-E  
EDDY COUNTY, NM



0 25 50  
Feet

GPS date: 3/6/14 AG  
Drawing date: 3/7/14  
Drafted by: L. Weinheimer, T. Grieco





90 ft

© 2020 Google

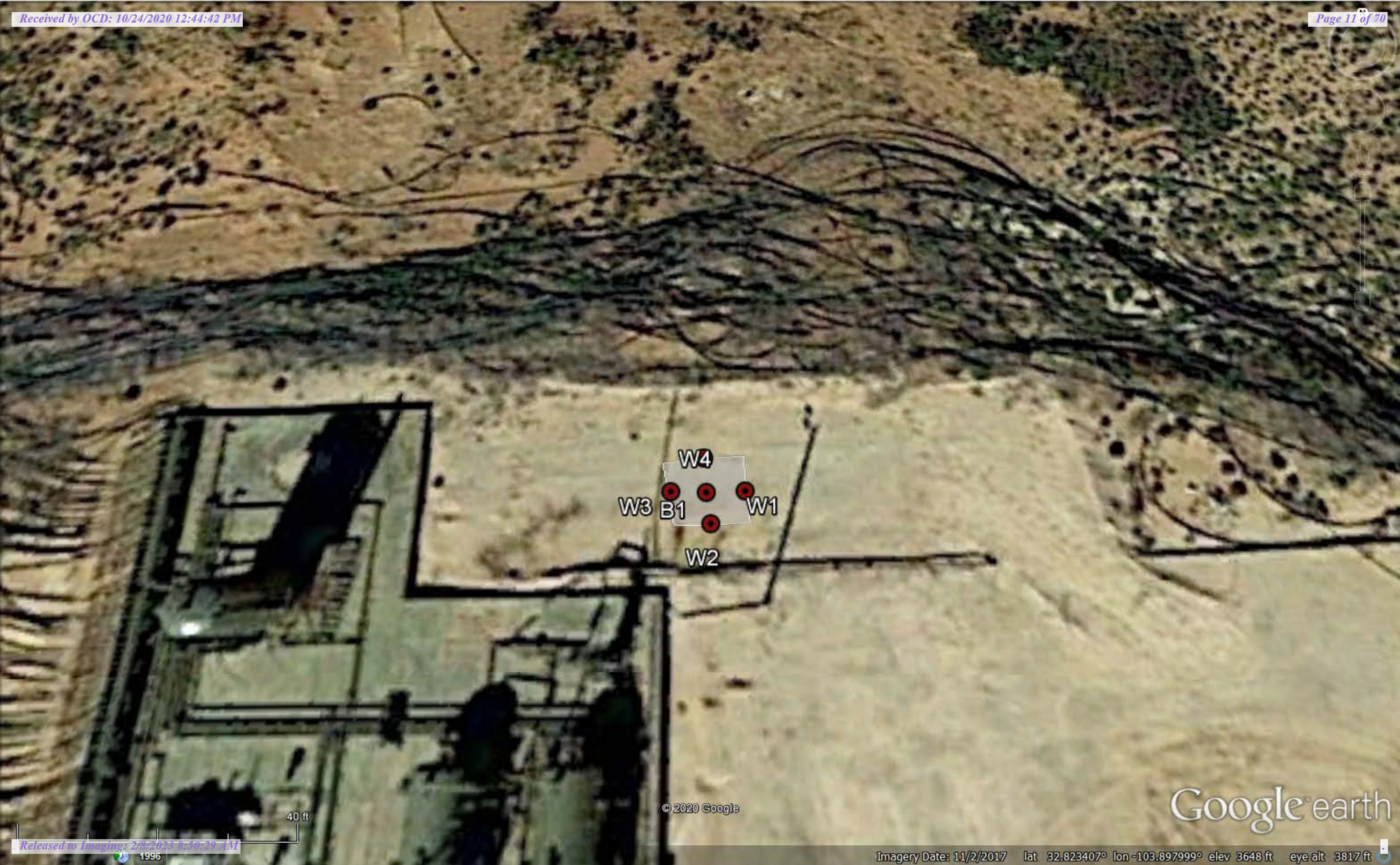
Google earth



2/2014







W4  
W3 B1 W1  
W2

© 2020 Google

Google earth



Delineation Samples												
Sample Date	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
9/24/2020	SP 1	Surface	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1110	539	32.823102, -103.897526
		1'	48.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		2'	16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
9/24/2020	SP 2	Surface	16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	15.9	<10.0	32.823141, -103.897532
		1'	32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	21.5	11.9	
		2'	48.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
9/24/2020	SP 3	Surface	64.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	78	60.6	32.823104, -103.897406
		1'	144	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	902	489	
		2'	192	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
9/24/2020	SP 4	Surface	368	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	38.7	34.1	32.823011, -103.897520
		1'	80.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	238	149	
		2'	80.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
9/24/2020	SP 5	Surface	224	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	12.5	10.2	32.823100, -103.897651
		1'	80.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		2'	80.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
9/24/2020	SP 6	Surface	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	602	522	32.823910, -103.897479
		1'	48.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	649	365	
		2'	32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
10/21/2020	SP 7	Surface	208	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	26.4	<10.0	32.822734, -103.897472
		1'	80.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		2'	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
10/21/2020	SP 8	Surface	560	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.822650, -103.897541
		1'	80.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		2'	64.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
10/21/2020	SP 9	Surface	2400	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	30.7	20.5	32.822490, -103.897535
		1'	80.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		2'	64.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
9/24/2020	HC1	Surface	16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.823167, -103.897548
9/24/2020	HC2	Surface	256	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.822892, -103.897298
9/24/2020	HC3	Surface	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	87.7	35.8	32.822794, -103.897394
10/21/2020	HC4	Surface	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.822555, -103.897268
10/21/2020	HC5	Surface	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.822397, -103.897440
Final Samples												
Sample Date	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
10/8/2020	B1	1'	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.823107, -103.897538
10/8/2020	W1		16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.823108, -103.897518
10/8/2020	W2		208	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.823091, -103.897536
10/8/2020	W3		160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	15.9	<10.0	32.823107, -103.897556
10/8/2020	W4		80.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	21.5	11.9	32.823123, -103.897539



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

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September 29, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: LEE FEDERAL BATTERY #1

Enclosed are the results of analyses for samples received by the laboratory on 09/24/20 15:36.

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:	09/24/2020	Sampling Date:	09/24/2020
Reported:	09/29/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 1 - SURFACE (H002536-01)**

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	09/25/2020	ND	2.15	107	2.00	6.33	
Toluene*	<0.050	0.050	09/25/2020	ND	2.17	109	2.00	6.76	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.11	106	2.00	7.31	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.07	101	6.00	7.30	
Total BTEX	<0.300	0.300	09/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	128	16.0	09/25/2020	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	09/24/2020	ND	194	97.0	200	2.56	
DRO >C10-C28*	1110	10.0	09/24/2020	ND	177	88.5	200	11.1	
EXT DRO >C28-C36	539	10.0	09/24/2020	ND					

Surrogate: 1-Chlorooctane 96.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 126 % 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.

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: 09/24/2020  
 Reported: 09/29/2020  
 Project Name: LEE FEDERAL BATTERY #1  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 09/24/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 - 1' (H002536-02)**

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	09/25/2020	ND	2.15	107	2.00	6.33		
Toluene*	<0.050	0.050	09/25/2020	ND	2.17	109	2.00	6.76		
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.11	106	2.00	7.31		
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.07	101	6.00	7.30		
Total BTX	<0.300	0.300	09/25/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	48.0	16.0	09/25/2020	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	09/24/2020	ND	194	97.0	200	2.56	
DRO >C10-C28*	<10.0	10.0	09/24/2020	ND	177	88.5	200	11.1	
EXT DRO >C28-C36	<10.0	10.0	09/24/2020	ND					

Surrogate: 1-Chlorooctane 120 % 44.3-144

Surrogate: 1-Chlorooctadecane 135 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/24/2020  
 Reported: 09/29/2020  
 Project Name: LEE FEDERAL BATTERY #1  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 09/24/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 - 2' (H002536-03)**

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	09/25/2020	ND	2.15	107	2.00	6.33		
Toluene*	<0.050	0.050	09/25/2020	ND	2.17	109	2.00	6.76		
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.11	106	2.00	7.31		
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.07	101	6.00	7.30		
Total BTX	<0.300	0.300	09/25/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	16.0	16.0	09/25/2020	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	09/25/2020	ND	194	97.0	200	5.85	
DRO >C10-C28*	<10.0	10.0	09/25/2020	ND	197	98.4	200	7.33	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					

Surrogate: 1-Chlorooctane 112 % 44.3-144

Surrogate: 1-Chlorooctadecane 123 % 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

**Analytical Results For:**

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

Received: 09/24/2020  
 Reported: 09/29/2020  
 Project Name: LEE FEDERAL BATTERY #1  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 09/24/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 - SURFACE (H002536-04)**

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	09/25/2020	ND	2.15	107	2.00	6.33	
Toluene*	<0.050	0.050	09/25/2020	ND	2.17	109	2.00	6.76	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.11	106	2.00	7.31	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.07	101	6.00	7.30	
Total BTX	<0.300	0.300	09/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	16.0	16.0	09/25/2020	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	09/25/2020	ND	194	97.0	200	5.85	
DRO >C10-C28*	15.9	10.0	09/25/2020	ND	197	98.4	200	7.33	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					

Surrogate: 1-Chlorooctane 115 % 44.3-144

Surrogate: 1-Chlorooctadecane 128 % 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

**Analytical Results For:**

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

Received: 09/24/2020  
 Reported: 09/29/2020  
 Project Name: LEE FEDERAL BATTERY #1  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 09/24/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 - 1' (H002536-05)**

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	09/25/2020	ND	2.15	107	2.00	6.33		
Toluene*	<0.050	0.050	09/25/2020	ND	2.17	109	2.00	6.76		
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.11	106	2.00	7.31		
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.07	101	6.00	7.30		
Total BTX	<0.300	0.300	09/25/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	32.0	16.0	09/25/2020	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	09/25/2020	ND	194	97.0	200	5.85	
DRO >C10-C28*	21.5	10.0	09/25/2020	ND	197	98.4	200	7.33	
EXT DRO >C28-C36	11.9	10.0	09/25/2020	ND					

Surrogate: 1-Chlorooctane 114 % 44.3-144

Surrogate: 1-Chlorooctadecane 126 % 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

**Analytical Results For:**

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

Received: 09/24/2020  
 Reported: 09/29/2020  
 Project Name: LEE FEDERAL BATTERY #1  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 09/24/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 - 2' (H002536-06)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	2.15	107	2.00	6.33	
Toluene*	<0.050	0.050	09/25/2020	ND	2.17	109	2.00	6.76	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.11	106	2.00	7.31	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.07	101	6.00	7.30	
Total BTX	<0.300	0.300	09/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	48.0	16.0	09/25/2020	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	09/25/2020	ND	194	97.0	200	5.85	
DRO >C10-C28*	<10.0	10.0	09/25/2020	ND	197	98.4	200	7.33	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					

Surrogate: 1-Chlorooctane 109 % 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: 09/24/2020  
 Reported: 09/29/2020  
 Project Name: LEE FEDERAL BATTERY #1  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 09/24/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 - SURFACE (H002536-07)**

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	09/25/2020	ND	2.15	107	2.00	6.33		
Toluene*	<0.050	0.050	09/25/2020	ND	2.17	109	2.00	6.76		
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.11	106	2.00	7.31		
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.07	101	6.00	7.30		
Total BTX	<0.300	0.300	09/25/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	64.0	16.0	09/25/2020	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	09/25/2020	ND	194	97.0	200	5.85	
DRO >C10-C28*	78.0	10.0	09/25/2020	ND	197	98.4	200	7.33	
EXT DRO >C28-C36	60.6	10.0	09/25/2020	ND					

Surrogate: 1-Chlorooctane 107 % 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:	09/24/2020	Sampling Date:	09/24/2020
Reported:	09/29/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 3 - 1' (H002536-08)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2020	ND	2.15	107	2.00	6.33		
Toluene*	<0.050	0.050	09/25/2020	ND	2.17	109	2.00	6.76		
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.11	106	2.00	7.31		
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.07	101	6.00	7.30		
Total BTX	<0.300	0.300	09/25/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	144	16.0	09/25/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/28/2020	ND	194	97.0	200	5.85	
DRO >C10-C28*	902	10.0	09/28/2020	ND	197	98.4	200	7.33	
EXT DRO >C28-C36	489	10.0	09/28/2020	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-144

Surrogate: 1-Chlorooctadecane 170 % 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: 09/24/2020  
 Reported: 09/29/2020  
 Project Name: LEE FEDERAL BATTERY #1  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 09/24/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 - 2' (H002536-09)**

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	09/28/2020	ND	2.15	107	2.00	6.33		
Toluene*	<0.050	0.050	09/28/2020	ND	2.17	109	2.00	6.76		
Ethylbenzene*	<0.050	0.050	09/28/2020	ND	2.11	106	2.00	7.31		
Total Xylenes*	<0.150	0.150	09/28/2020	ND	6.07	101	6.00	7.30		
Total BTX	<0.300	0.300	09/28/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	192	16.0	09/25/2020	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	09/25/2020	ND	194	97.0	200	5.85	
DRO >C10-C28*	<10.0	10.0	09/25/2020	ND	197	98.4	200	7.33	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					

Surrogate: 1-Chlorooctane 107 % 44.3-144

Surrogate: 1-Chlorooctadecane 116 % 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: 09/24/2020  
 Reported: 09/29/2020  
 Project Name: LEE FEDERAL BATTERY #1  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 09/24/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 4 - SURFACE (H002536-10)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	2.15	107	2.00	6.33	
Toluene*	<0.050	0.050	09/25/2020	ND	2.17	109	2.00	6.76	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.11	106	2.00	7.31	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.07	101	6.00	7.30	
Total BTX	<0.300	0.300	09/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	368	16.0	09/25/2020	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	09/25/2020	ND	194	97.0	200	5.85	
DRO >C10-C28*	38.7	10.0	09/25/2020	ND	197	98.4	200	7.33	
EXT DRO >C28-C36	34.1	10.0	09/25/2020	ND					

Surrogate: 1-Chlorooctane 108 % 44.3-144

Surrogate: 1-Chlorooctadecane 118 % 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

**Analytical Results For:**

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

Received: 09/24/2020  
 Reported: 09/29/2020  
 Project Name: LEE FEDERAL BATTERY #1  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 09/24/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 4 - 1' (H002536-11)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	2.15	107	2.00	6.33	
Toluene*	<0.050	0.050	09/25/2020	ND	2.17	109	2.00	6.76	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	2.11	106	2.00	7.31	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.07	101	6.00	7.30	
Total BTX	<0.300	0.300	09/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	80.0	16.0	09/25/2020	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	09/25/2020	ND	194	97.0	200	5.85	
DRO >C10-C28*	238	10.0	09/25/2020	ND	197	98.4	200	7.33	
EXT DRO >C28-C36	149	10.0	09/25/2020	ND					

Surrogate: 1-Chlorooctane 99.9 % 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: 09/24/2020  
 Reported: 09/29/2020  
 Project Name: LEE FEDERAL BATTERY #1  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 09/24/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 4 - 2' (H002536-12)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	1.85	92.7	2.00	4.57	
Toluene*	<0.050	0.050	09/25/2020	ND	1.91	95.6	2.00	4.17	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	1.91	95.5	2.00	4.02	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.01	100	6.00	3.80	
Total BTEX	<0.300	0.300	09/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	80.0	16.0	09/25/2020	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	09/25/2020	ND	194	97.0	200	5.85	
DRO >C10-C28*	<10.0	10.0	09/25/2020	ND	197	98.4	200	7.33	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					

Surrogate: 1-Chlorooctane 107 % 44.3-144

Surrogate: 1-Chlorooctadecane 117 % 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:	09/24/2020	Sampling Date:	09/24/2020
Reported:	09/29/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 5 - SURFACE (H002536-13)**

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2020	ND	1.85	92.7	2.00	4.57		
Toluene*	<0.050	0.050	09/25/2020	ND	1.91	95.6	2.00	4.17		
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	1.91	95.5	2.00	4.02		
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.01	100	6.00	3.80		
Total BTEx	<0.300	0.300	09/25/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	224	16.0	09/25/2020	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	09/25/2020	ND	194	97.0	200	5.85	
DRO >C10-C28*	12.5	10.0	09/25/2020	ND	197	98.4	200	7.33	
EXT DRO >C28-C36	10.2	10.0	09/25/2020	ND					

Surrogate: 1-Chlorooctane 114 % 44.3-144

Surrogate: 1-Chlorooctadecane 126 % 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: 09/24/2020  
 Reported: 09/29/2020  
 Project Name: LEE FEDERAL BATTERY #1  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 09/24/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 5 - 1' (H002536-14)**

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2020	ND	1.85	92.7	2.00	4.57		
Toluene*	<0.050	0.050	09/25/2020	ND	1.91	95.6	2.00	4.17		
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	1.91	95.5	2.00	4.02		
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.01	100	6.00	3.80		
Total BTEX	<0.300	0.300	09/25/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	80.0	16.0	09/25/2020	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	09/25/2020	ND	194	97.0	200	5.85	
DRO >C10-C28*	<10.0	10.0	09/25/2020	ND	197	98.4	200	7.33	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					

Surrogate: 1-Chlorooctane 111 % 44.3-144

Surrogate: 1-Chlorooctadecane 121 % 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: 09/24/2020  
 Reported: 09/29/2020  
 Project Name: LEE FEDERAL BATTERY #1  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 09/24/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 5 - 2' (H002536-15)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	1.85	92.7	2.00	4.57	
Toluene*	<0.050	0.050	09/25/2020	ND	1.91	95.6	2.00	4.17	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	1.91	95.5	2.00	4.02	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.01	100	6.00	3.80	
Total BTEX	<0.300	0.300	09/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	80.0	16.0	09/25/2020	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	09/25/2020	ND	194	97.0	200	5.85	
DRO >C10-C28*	<10.0	10.0	09/25/2020	ND	197	98.4	200	7.33	
EXT DRO >C28-C36	<10.0	10.0	09/25/2020	ND					

Surrogate: 1-Chlorooctane 113 % 44.3-144

Surrogate: 1-Chlorooctadecane 124 % 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:	09/24/2020	Sampling Date:	09/24/2020
Reported:	09/29/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 6 - SURFACE (H002536-16)**

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2020	ND	1.85	92.7	2.00	4.57		
Toluene*	<0.050	0.050	09/25/2020	ND	1.91	95.6	2.00	4.17		
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	1.91	95.5	2.00	4.02		
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.01	100	6.00	3.80		
Total BTEx	<0.300	0.300	09/25/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	128	16.0	09/25/2020	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	09/28/2020	ND	194	97.0	200	5.85	
DRO >C10-C28*	602	10.0	09/28/2020	ND	197	98.4	200	7.33	
EXT DRO >C28-C36	522	10.0	09/28/2020	ND					

Surrogate: 1-Chlorooctane 107 % 44.3-144

Surrogate: 1-Chlorooctadecane 151 % 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: 09/24/2020  
 Reported: 09/29/2020  
 Project Name: LEE FEDERAL BATTERY #1  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 09/24/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 6 - 1' (H002536-17)**

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/25/2020	ND	1.85	92.7	2.00	4.57	
Toluene*	<0.050	0.050	09/25/2020	ND	1.91	95.6	2.00	4.17	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	1.91	95.5	2.00	4.02	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.01	100	6.00	3.80	
Total BTEx	<0.300	0.300	09/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	48.0	16.0	09/25/2020	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	09/28/2020	ND	194	97.0	200	5.85	
DRO >C10-C28*	649	10.0	09/28/2020	ND	197	98.4	200	7.33	
EXT DRO >C28-C36	365	10.0	09/28/2020	ND					

Surrogate: 1-Chlorooctane 108 % 44.3-144

Surrogate: 1-Chlorooctadecane 156 % 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: 09/24/2020  
 Reported: 09/29/2020  
 Project Name: LEE FEDERAL BATTERY #1  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 09/24/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 6 - 2' (H002536-18)**

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	09/25/2020	ND	1.85	92.7	2.00	4.57		
Toluene*	<0.050	0.050	09/25/2020	ND	1.91	95.6	2.00	4.17		
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	1.91	95.5	2.00	4.02		
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.01	100	6.00	3.80		
Total BTX	<0.300	0.300	09/25/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	09/25/2020	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	09/28/2020	ND	194	97.0	200	5.85	
DRO >C10-C28*	<10.0	10.0	09/28/2020	ND	197	98.4	200	7.33	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					

Surrogate: 1-Chlorooctane 112 % 44.3-144

Surrogate: 1-Chlorooctadecane 124 % 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

**Analytical Results For:**

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

Received: 09/24/2020  
 Reported: 09/29/2020  
 Project Name: LEE FEDERAL BATTERY #1  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 09/24/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: HC 1 (H002536-19)**

BTEX 8021B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2020	ND	1.85	92.7	2.00	4.57		
Toluene*	<0.050	0.050	09/25/2020	ND	1.91	95.6	2.00	4.17		
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	1.91	95.5	2.00	4.02		
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.01	100	6.00	3.80		
Total BTEX	<0.300	0.300	09/25/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	16.0	16.0	09/25/2020	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	09/28/2020	ND	194	97.0	200	5.85	
DRO >C10-C28*	<10.0	10.0	09/28/2020	ND	197	98.4	200	7.33	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					

Surrogate: 1-Chlorooctane 113 % 44.3-144

Surrogate: 1-Chlorooctadecane 125 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 09/24/2020  
 Reported: 09/29/2020  
 Project Name: LEE FEDERAL BATTERY #1  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 09/24/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: HC 2 (H002536-20)**

BTEX 8021B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/25/2020	ND	1.85	92.7	2.00	4.57		
Toluene*	<0.050	0.050	09/25/2020	ND	1.91	95.6	2.00	4.17		
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	1.91	95.5	2.00	4.02		
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.01	100	6.00	3.80		
Total BTEX	<0.300	0.300	09/25/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	256	16.0	09/25/2020	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	09/28/2020	ND	194	97.0	200	5.85	
DRO >C10-C28*	<10.0	10.0	09/28/2020	ND	197	98.4	200	7.33	
EXT DRO >C28-C36	<10.0	10.0	09/28/2020	ND					

Surrogate: 1-Chlorooctane 112 % 44.3-144

Surrogate: 1-Chlorooctadecane 123 % 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

**Analytical Results For:**

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

Received:	09/24/2020	Sampling Date:	09/24/2020
Reported:	09/29/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL BATTERY #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: HC 3 (H002536-21)**

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	09/25/2020	ND	1.85	92.7	2.00	4.57	
Toluene*	<0.050	0.050	09/25/2020	ND	1.91	95.6	2.00	4.17	
Ethylbenzene*	<0.050	0.050	09/25/2020	ND	1.91	95.5	2.00	4.02	
Total Xylenes*	<0.150	0.150	09/25/2020	ND	6.01	100	6.00	3.80	
Total BTX	<0.300	0.300	09/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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	160	16.0	09/25/2020	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	09/28/2020	ND	194	97.0	200	5.85	
DRO >C10-C28*	87.7	10.0	09/28/2020	ND	197	98.4	200	7.33	
EXT DRO >C28-C36	35.8	10.0	09/28/2020	ND					

Surrogate: 1-Chlorooctane 111 % 44.3-144

Surrogate: 1-Chlorooctadecane 125 % 42.2-156

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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 "Celey D. Keene".

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Celey D. Keene, Lab Director/Quality Manager



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Alpeche</u>		P.O. #:		BILL TO				ANALYSIS REQUEST			
Project Manager: <u>Larry Baker</u>		Company: <u>Alpeche</u>									
Address:		Attn: <u>Larry Baker</u>									
City:		Address:									
State:		City:									
Zip:		State:									
Phone #:		Fax #:									
Project #:		Project Owner:									
Project Name: <u>Lee Federal Battery #1</u>		State:									
Project Location: <u>Lee Federal Battery #1</u>		Zip:									
Sample Name: <u>Alpeche</u>		Phone #:									
FOR LAB USE ONLY		Fax #:									
Lab I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING	
Sample I.D.		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE	
		OTHER:		ACID/BASE:		ICE / COOL		OTHER:			
H002536		DATE		TIME		Chlorides		Btex		Gro	
1 SP1-Surf		9/24/2020		9:27		+ + + + +		+ + + + +		+ + + + +	
2 SP1-1'		9:32		+ + + + +		+ + + + +		+ + + + +		+ + + + +	
3 SP1-2'		9:35		+ + + + +		+ + + + +		+ + + + +		+ + + + +	
4 SP2-Surf		9:40		+ + + + +		+ + + + +		+ + + + +		+ + + + +	
5 SP2-4'		9:42		+ + + + +		+ + + + +		+ + + + +		+ + + + +	
6 SP2-2'		9:45		+ + + + +		+ + + + +		+ + + + +		+ + + + +	
7 SP2-Surf		9:51		+ + + + +		+ + + + +		+ + + + +		+ + + + +	
8 SP3-1'		9:55		+ + + + +		+ + + + +		+ + + + +		+ + + + +	
9 SP3-2'		9:59		+ + + + +		+ + + + +		+ + + + +		+ + + + +	
10 SP4-Surf		10:10		+ + + + +		+ + + + +		+ + + + +		+ + + + +	

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Relinquished By: <u>Alpeche</u>	Date: <u>9/24/2020</u>	Received By: <u>Larry Baker</u>	Date: <u>9/24/2020</u>
Relinquished By: <u>Alpeche</u>	Date: <u>9/24/2020</u>	Received By: <u>Larry Baker</u>	Date: <u>9/24/2020</u>

Delivered By: (Circle One)	Observed Temp. °C	Corrected Temp. °C	Sample Condition	CHECKED BY: (Initials)	Turnaround Time:	Standard	Bacteria (only)	Sample Condition
UPS - Bns - Other:	2.9		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	TE.	Thermometer ID #113	<input checked="" type="checkbox"/> Rush	<input checked="" type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Observed Temp. °C

REMARKS: Email to Larry Baker at [lpbaker@cardinallabsnm.com](mailto:lpbaker@cardinallabsnm.com)

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

All Results are emailed. Please provide Email address:

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





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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> Apache <b>Project Manager:</b> Larry Baker <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> Lee Federal Battery #1 <b>Project Location:</b> Lee Federal Battery #1 <b>Sample Name:</b> Galed Piller		<b>P.O. #:</b> <b>Company:</b> Apache <b>Attn:</b> Larry Baker <b>Address:</b> <b>City:</b> <b>State:</b> <b>Zip:</b> <b>Phone #:</b> <b>Fax #:</b>	
<b>FOR LAB USE ONLY</b> <b>Lab I.D.:</b> <b>Sample I.D.:</b>		<b>Matrix:</b> (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	
<b>DATE</b> <b>TIME</b> 11/12/2000                      10:12 12/12/2000                      10:14 13/12/2000                      10:23 14/12/2000                      10:24 15/12/2000                      10:29 16/12/2000                      10:43 17/12/2000                      10:46 18/12/2000                      10:49 19/12/2000                      11:41 20/12/2000                      12:17		<b>SAMPLING</b> Chlorides Btex Gro Dro Ext TPH	

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<b>Relinquished By:</b> Galed Piller <b>Date:</b> 11/12/2000 <b>Time:</b> 3:36 <b>Received By:</b> Larry Baker <b>Date:</b> 11/12/2000 <b>Time:</b> 11:41	<b>Verbal Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: <b>All Results are emailed. Please provide Email address:</b> <b>REMARKS:</b>
---	--

<b>Delivered By: (Circle One)</b> Sample - UPS - Bus - Other: <b>Observed Temp. °C</b> 2.9 <b>Corrected Temp. °C</b> <b>Sample Condition</b> Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> <b>Checked By:</b> (Initials) Y.P. <b>Turnaround Time:</b> Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> <b>Thermometer ID #113</b> Correction Factor None <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <b>Bacteria (only)</b> Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> <b>Observed Temp. °C</b> <b>Corrected Temp. °C</b>
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101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Apache</u>		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: <u>Larry Baker</u>		Company: <u>Apache</u>					
Address:		Attn: <u>Larry Baker</u>					
City:		Address:					
Phone #:		City:					
Fax #:		State:					
Project #:		Zip:					
Project Name: <u>Lee Federal Battery #1</u>		City:					
Project Location: <u>Lee Federal Battery #1</u>		State:					
Sample Name: <u>Caleb Picher</u>		Phone #:					
FOR LAB USE ONLY		Fax #:					
Lab I.D. <u>H000536</u>		Sample I.D.					
Relinquished By: <u>Caleb Picher</u>		Date: <u>4/24/2020</u>		Received By: <u>Amara &amp; Kelly</u>		Date: <u>4/24/2020</u>	
Relinquished By: <u>Caleb Picher</u>		Date: <u>3:36</u>		Received By: <u>Amara &amp; Kelly</u>		Date: <u>4/24/2020</u>	
Delivered By: (Circle One)		Observed Temp. °C <u>29</u>		Sample Condition		CHECKED BY: (Initials) <u>TP</u>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>			
FORM-5006 3.1 10/07/20				Yes <input type="checkbox"/> No <input type="checkbox"/>			
† Cardinal cannot accept verbal changes. Please email changes to <a href="mailto:celey.keene@cardinallabsnm.com">celey.keene@cardinallabsnm.com</a>							





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---

October 09, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: LEE FEDERAL

Enclosed are the results of analyses for samples received by the laboratory on 10/08/20 15:15.

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: 10/08/2020  
 Reported: 10/09/2020  
 Project Name: LEE FEDERAL  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 10/08/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: B 1 @ 1' (H002685-01)**

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	10/08/2020	ND	1.97	98.5	2.00	0.824		
Toluene*	<0.050	0.050	10/08/2020	ND	2.00	100	2.00	2.09		
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	1.92	95.9	2.00	1.83		
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.58	93.0	6.00	0.485		
Total BTX	<0.300	0.300	10/08/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	10/09/2020	ND	416	104	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	10/09/2020	ND	203	101	200	5.93	
DRO >C10-C28*	<10.0	10.0	10/09/2020	ND	202	101	200	11.0	
EXT DRO >C28-C36	<10.0	10.0	10/09/2020	ND					

Surrogate: 1-Chlorooctane 118 % 44.3-144

Surrogate: 1-Chlorooctadecane 130 % 42.2-156

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 10/08/2020  
 Reported: 10/09/2020  
 Project Name: LEE FEDERAL  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 10/08/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W 1 (H002685-02)**

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	10/08/2020	ND	1.97	98.5	2.00	0.824	
Toluene*	<0.050	0.050	10/08/2020	ND	2.00	100	2.00	2.09	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	1.92	95.9	2.00	1.83	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.58	93.0	6.00	0.485	
Total BTEx	<0.300	0.300	10/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/09/2020	ND	416	104	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	10/09/2020	ND	203	101	200	5.93	
DRO >C10-C28*	<10.0	10.0	10/09/2020	ND	202	101	200	11.0	
EXT DRO >C28-C36	<10.0	10.0	10/09/2020	ND					

Surrogate: 1-Chlorooctane 118 % 44.3-144

Surrogate: 1-Chlorooctadecane 126 % 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

**Analytical Results For:**

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

Received: 10/08/2020  
 Reported: 10/09/2020  
 Project Name: LEE FEDERAL  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 10/08/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W 2 (H002685-03)**

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	10/08/2020	ND	1.97	98.5	2.00	0.824	
Toluene*	<0.050	0.050	10/08/2020	ND	2.00	100	2.00	2.09	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	1.92	95.9	2.00	1.83	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.58	93.0	6.00	0.485	
Total BTEx	<0.300	0.300	10/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/09/2020	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	10/09/2020	ND	203	101	200	5.93	
DRO >C10-C28*	<10.0	10.0	10/09/2020	ND	202	101	200	11.0	
EXT DRO >C28-C36	<10.0	10.0	10/09/2020	ND					

Surrogate: 1-Chlorooctane 127 % 44.3-144

Surrogate: 1-Chlorooctadecane 136 % 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: 10/08/2020  
 Reported: 10/09/2020  
 Project Name: LEE FEDERAL  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 10/08/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W 3 (H002685-04)**

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	10/08/2020	ND	1.97	98.5	2.00	0.824	
Toluene*	<0.050	0.050	10/08/2020	ND	2.00	100	2.00	2.09	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	1.92	95.9	2.00	1.83	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.58	93.0	6.00	0.485	
Total BTEx	<0.300	0.300	10/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	10/09/2020	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	10/09/2020	ND	203	101	200	5.93	
DRO >C10-C28*	<10.0	10.0	10/09/2020	ND	202	101	200	11.0	
EXT DRO >C28-C36	<10.0	10.0	10/09/2020	ND					

Surrogate: 1-Chlorooctane 113 % 44.3-144

Surrogate: 1-Chlorooctadecane 124 % 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

**Analytical Results For:**

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

Received: 10/08/2020  
 Reported: 10/09/2020  
 Project Name: LEE FEDERAL  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 10/08/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W 4 (H002685-05)**

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	10/08/2020	ND	1.97	98.5	2.00	0.824	
Toluene*	<0.050	0.050	10/08/2020	ND	2.00	100	2.00	2.09	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	1.92	95.9	2.00	1.83	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.58	93.0	6.00	0.485	
Total BTEx	<0.300	0.300	10/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/09/2020	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	10/09/2020	ND	203	101	200	5.93	
DRO >C10-C28*	<10.0	10.0	10/09/2020	ND	202	101	200	11.0	
EXT DRO >C28-C36	<10.0	10.0	10/09/2020	ND					

Surrogate: 1-Chlorooctane 125 % 44.3-144

Surrogate: 1-Chlorooctadecane 138 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager

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### Notes and Definitions

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

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

---

Celey D. Keene, Lab Director/Quality Manager



## Page 8 of 8

ANALYSIS REQUEST

Released to Imaging: 2/8/2023 8:50:29 AM



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

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October 22, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: LEE FEDERAL

Enclosed are the results of analyses for samples received by the laboratory on 10/21/20 16:27.

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".

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:	10/21/2020	Sampling Date:	10/21/2020
Reported:	10/22/2020	Sampling Type:	Soil
Project Name:	LEE FEDERAL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP 7 @ SURFACE (H002812-01)**

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	10/22/2020	ND	1.93	96.6	2.00	1.96	
Toluene*	<0.050	0.050	10/22/2020	ND	2.01	100	2.00	0.118	
Ethylbenzene*	<0.050	0.050	10/22/2020	ND	1.95	97.5	2.00	0.105	
Total Xylenes*	<0.150	0.150	10/22/2020	ND	5.69	94.9	6.00	1.26	
Total BTEX	<0.300	0.300	10/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	10/22/2020	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	10/22/2020	ND	230	115	200	1.56	
DRO >C10-C28*	26.4	10.0	10/22/2020	ND	219	110	200	2.40	
EXT DRO >C28-C36	<10.0	10.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 131 % 44.3-144

Surrogate: 1-Chlorooctadecane 130 % 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: 10/21/2020  
 Reported: 10/22/2020  
 Project Name: LEE FEDERAL  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 10/21/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 7 @ 1' (H002812-02)**

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	10/22/2020	ND	1.93	96.6	2.00	1.96		
Toluene*	<0.050	0.050	10/22/2020	ND	2.01	100	2.00	0.118		
Ethylbenzene*	<0.050	0.050	10/22/2020	ND	1.95	97.5	2.00	0.105		
Total Xylenes*	<0.150	0.150	10/22/2020	ND	5.69	94.9	6.00	1.26		
Total BTEX	<0.300	0.300	10/22/2020	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/22/2020	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	10/22/2020	ND	230	115	200	1.56	
DRO >C10-C28*	<10.0	10.0	10/22/2020	ND	219	110	200	2.40	
EXT DRO >C28-C36	<10.0	10.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 137 % 44.3-144

Surrogate: 1-Chlorooctadecane 136 % 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: 10/21/2020  
 Reported: 10/22/2020  
 Project Name: LEE FEDERAL  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 10/21/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 7 @ 2' (H002812-03)**

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	10/22/2020	ND	1.93	96.6	2.00	1.96	
Toluene*	<0.050	0.050	10/22/2020	ND	2.01	100	2.00	0.118	
Ethylbenzene*	<0.050	0.050	10/22/2020	ND	1.95	97.5	2.00	0.105	
Total Xylenes*	<0.150	0.150	10/22/2020	ND	5.69	94.9	6.00	1.26	
Total BTEx	<0.300	0.300	10/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/22/2020	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	10/22/2020	ND	230	115	200	1.56	
DRO >C10-C28*	<10.0	10.0	10/22/2020	ND	219	110	200	2.40	
EXT DRO >C28-C36	<10.0	10.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 123 % 44.3-144

Surrogate: 1-Chlorooctadecane 121 % 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: 10/21/2020  
 Reported: 10/22/2020  
 Project Name: LEE FEDERAL  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 10/21/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 8 @ SURFACE (H002812-04)**

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	10/22/2020	ND	1.93	96.6	2.00	1.96		
Toluene*	<0.050	0.050	10/22/2020	ND	2.01	100	2.00	0.118		
Ethylbenzene*	<0.050	0.050	10/22/2020	ND	1.95	97.5	2.00	0.105		
Total Xylenes*	<0.150	0.150	10/22/2020	ND	5.69	94.9	6.00	1.26		
Total BTEx	<0.300	0.300	10/22/2020	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	10/22/2020	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	10/22/2020	ND	230	115	200	1.56	
DRO >C10-C28*	<10.0	10.0	10/22/2020	ND	219	110	200	2.40	
EXT DRO >C28-C36	<10.0	10.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 135 % 44.3-144

Surrogate: 1-Chlorooctadecane 133 % 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: 10/21/2020  
 Reported: 10/22/2020  
 Project Name: LEE FEDERAL  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 10/21/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 8 @ 1' (H002812-05)**

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	10/22/2020	ND	1.93	96.6	2.00	1.96	
Toluene*	<0.050	0.050	10/22/2020	ND	2.01	100	2.00	0.118	
Ethylbenzene*	<0.050	0.050	10/22/2020	ND	1.95	97.5	2.00	0.105	
Total Xylenes*	<0.150	0.150	10/22/2020	ND	5.69	94.9	6.00	1.26	
Total BTEx	<0.300	0.300	10/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/22/2020	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	10/22/2020	ND	230	115	200	1.56	
DRO >C10-C28*	<10.0	10.0	10/22/2020	ND	219	110	200	2.40	
EXT DRO >C28-C36	<10.0	10.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 138 % 44.3-144

Surrogate: 1-Chlorooctadecane 136 % 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

**Analytical Results For:**

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

Received: 10/21/2020  
 Reported: 10/22/2020  
 Project Name: LEE FEDERAL  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 10/21/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 8 @ 2' (H002812-06)**

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	10/22/2020	ND	1.93	96.6	2.00	1.96	
Toluene*	<0.050	0.050	10/22/2020	ND	2.01	100	2.00	0.118	
Ethylbenzene*	<0.050	0.050	10/22/2020	ND	1.95	97.5	2.00	0.105	
Total Xylenes*	<0.150	0.150	10/22/2020	ND	5.69	94.9	6.00	1.26	
Total BTEx	<0.300	0.300	10/22/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/22/2020	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	10/22/2020	ND	230	115	200	1.56	
DRO >C10-C28*	<10.0	10.0	10/22/2020	ND	219	110	200	2.40	
EXT DRO >C28-C36	<10.0	10.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 131 % 44.3-144

Surrogate: 1-Chlorooctadecane 132 % 42.2-156

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/21/2020  
 Reported: 10/22/2020  
 Project Name: LEE FEDERAL  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 10/21/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 9 @ SURFACE (H002812-07)**

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	10/22/2020	ND	1.93	96.6	2.00	1.96	
Toluene*	<0.050	0.050	10/22/2020	ND	2.01	100	2.00	0.118	
Ethylbenzene*	<0.050	0.050	10/22/2020	ND	1.95	97.5	2.00	0.105	
Total Xylenes*	<0.150	0.150	10/22/2020	ND	5.69	94.9	6.00	1.26	
Total BTEx	<0.300	0.300	10/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	10/22/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/22/2020	ND	193	96.6	200	2.58	
DRO >C10-C28*	30.7	10.0	10/22/2020	ND	198	99.0	200	3.47	
EXT DRO >C28-C36	20.5	10.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 145 % 44.3-144

Surrogate: 1-Chlorooctadecane 163 % 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: 10/21/2020  
 Reported: 10/22/2020  
 Project Name: LEE FEDERAL  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 10/21/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 9 @ 1' (H002812-08)**

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/22/2020	ND	1.93	96.6	2.00	1.96		
Toluene*	<0.050	0.050	10/22/2020	ND	2.01	100	2.00	0.118		
Ethylbenzene*	<0.050	0.050	10/22/2020	ND	1.95	97.5	2.00	0.105		
Total Xylenes*	<0.150	0.150	10/22/2020	ND	5.69	94.9	6.00	1.26		
Total BTEx	<0.300	0.300	10/22/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/22/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/22/2020	ND	193	96.6	200	2.58	
DRO >C10-C28*	<10.0	10.0	10/22/2020	ND	198	99.0	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 144 % 44.3-144

Surrogate: 1-Chlorooctadecane 162 % 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

**Analytical Results For:**

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

Received: 10/21/2020  
 Reported: 10/22/2020  
 Project Name: LEE FEDERAL  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 10/21/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 9 @ 2' (H002812-09)**

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/22/2020	ND	1.93	96.6	2.00	1.96		
Toluene*	<0.050	0.050	10/22/2020	ND	2.01	100	2.00	0.118		
Ethylbenzene*	<0.050	0.050	10/22/2020	ND	1.95	97.5	2.00	0.105		
Total Xylenes*	<0.150	0.150	10/22/2020	ND	5.69	94.9	6.00	1.26		
Total BTEx	<0.300	0.300	10/22/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/22/2020	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/22/2020	ND	193	96.6	200	2.58	
DRO >C10-C28*	<10.0	10.0	10/22/2020	ND	198	99.0	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 143 % 44.3-144

Surrogate: 1-Chlorooctadecane 159 % 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

**Analytical Results For:**

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

Received: 10/21/2020  
 Reported: 10/22/2020  
 Project Name: LEE FEDERAL  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 10/21/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: HC 4 (H002812-10)**

BTEx 8021B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/22/2020	ND	1.93	96.6	2.00	1.96		
Toluene*	<0.050	0.050	10/22/2020	ND	2.01	100	2.00	0.118		
Ethylbenzene*	<0.050	0.050	10/22/2020	ND	1.95	97.5	2.00	0.105		
Total Xylenes*	<0.150	0.150	10/22/2020	ND	5.69	94.9	6.00	1.26		
Total BTEX	<0.300	0.300	10/22/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 73.3-129

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	10/22/2020	ND	416	104	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	10/22/2020	ND	193	96.6	200	2.58	
DRO >C10-C28*	<10.0	10.0	10/22/2020	ND	198	99.0	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 139 % 44.3-144

Surrogate: 1-Chlorooctadecane 156 % 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: 10/21/2020  
 Reported: 10/22/2020  
 Project Name: LEE FEDERAL  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

Sampling Date: 10/21/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: HC 5 (H002812-11)**

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/22/2020	ND	1.93	96.6	2.00	1.96	
Toluene*	<0.050	0.050	10/22/2020	ND	2.01	100	2.00	0.118	
Ethylbenzene*	<0.050	0.050	10/22/2020	ND	1.95	97.5	2.00	0.105	
Total Xylenes*	<0.150	0.150	10/22/2020	ND	5.69	94.9	6.00	1.26	
Total BTEX	<0.300	0.300	10/22/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 73.3-129

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	10/22/2020	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/22/2020	ND	193	96.6	200	2.58	
DRO >C10-C28*	<10.0	10.0	10/22/2020	ND	198	99.0	200	3.47	
EXT DRO >C28-C36	<10.0	10.0	10/22/2020	ND					

Surrogate: 1-Chlorooctane 145 % 44.3-144

Surrogate: 1-Chlorooctadecane 162 % 42.2-156

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

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

---

Celey D. Keene, Lab Director/Quality Manager



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <b>APACHE CORPORATION</b>		P.O. #:		ANALYSIS REQUEST			
Project Manager: <b>Bruce Baker</b>		Company:					
Address:		Attn:					
City:		Address:					
Phone #:		City:					
Fax #:		State:					
Project #:		Zip:					
Project Name: <b>LEE FEDERAL</b>		Phone #:					
Project Location: <b>LEE FEDERAL</b>		Fax #:					
Sampler Name: <b>JEFF BROWN</b>							

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	CL-	BTEX	EXT. TPH											
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME						
<b>H002812</b>	SP7 @ Surface	G											12/2/82	1500	✓	✓	✓			
1	SP7 @ 1'	G											12/2/82	1502	✓	✓	✓			
2	SP7 @ 2'	G											12/2/82	1504	✓	✓	✓			
3	SP8 @ Surface	G											12/2/82	1506	✓	✓	✓			
4	SP8 @ 1'	G											12/2/82	1508	✓	✓	✓			
5	SP8 @ 2'	G											12/2/82	1510	✓	✓	✓			
6	SP9 @ Surface	G											12/2/82	1512	✓	✓	✓			
7	SP9 @ 1'	G											12/2/82	1514	✓	✓	✓			
8	SP9 @ 2'	G											12/2/82	1516	✓	✓	✓			
9	SP9 @ 2'	G											12/2/82	1518	✓	✓	✓			
10	HC 4	G											12/2/82	1518	✓	✓	✓			

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Reinquinished By: <b>JEFF BROWN</b>	Date: <b>12/2/82</b>	Received By: <b>JANET A. DEAN</b>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Reinquinished By: <b>JEFF BROWN</b>	Date: <b>12/2/82</b>	Received By: <b>JANET A. DEAN</b>	All Results are emailed. Please provide Email address:	
REMARKS:				

Delivered By: (Circle One)	Observed Temp. °C <b>4.8</b>	Sample Condition	CHECKED BY: (Initials)	Turnaround Time:	Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>	Bacteria (only) Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/>	<b>TD.</b>	Thermometer ID # <b>22</b>	<b>70</b>	Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/>
		No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>		Correction Factor <b>0.00</b>	<b>#113</b>	Observed Temp. °C
		No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>				Corrected Temp. °C

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





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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

---

March 07, 2014

BRUCE BAKER

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: LEE FEDERAL TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/06/14 10:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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

Organic Supervisor



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

**Analytical Results For:**

APACHE - EUNICE  
 BRUCE BAKER  
 P. O. BOX 1849  
 EUNICE NM, 88231  
 Fax To: 394-2425

Received: 03/06/2014  
 Reported: 03/07/2014  
 Project Name: LEE FEDERAL TANK BATTERY  
 Project Number: NONE GIVEN  
 Project Location: T17S R31E

Sampling Date: 03/05/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: NORTH WALL (H400686-01)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2014	ND	2.09	105	2.00	1.05	
Toluene*	<0.050	0.050	03/07/2014	ND	2.10	105	2.00	4.70	
Ethylbenzene*	<0.050	0.050	03/07/2014	ND	2.00	99.8	2.00	4.92	
Total Xylenes*	<0.150	0.150	03/07/2014	ND	6.05	101	6.00	5.87	
Total BTEX	<0.300	0.300	03/07/2014	ND					

Surrogate: Dibromofluoromethane 93.3 % 61.3-142

Surrogate: Toluene-d8 105 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	03/07/2014	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/07/2014	ND	194	97.1	200	8.76	
DRO >C10-C28	<10.0	10.0	03/07/2014	ND	232	116	200	7.85	

Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Mike Snyder, Organic Supervisor





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**Analytical Results For:**

APACHE - EUNICE  
 BRUCE BAKER  
 P. O. BOX 1849  
 EUNICE NM, 88231  
 Fax To: 394-2425

Received: 03/06/2014  
 Reported: 03/07/2014  
 Project Name: LEE FEDERAL TANK BATTERY  
 Project Number: NONE GIVEN  
 Project Location: T17S R31E

Sampling Date: 03/05/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: EAST WALL (H400686-02)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2014	ND	2.09	105	2.00	1.05	
Toluene*	<0.050	0.050	03/07/2014	ND	2.10	105	2.00	4.70	
Ethylbenzene*	<0.050	0.050	03/07/2014	ND	2.00	99.8	2.00	4.92	
Total Xylenes*	<0.150	0.150	03/07/2014	ND	6.05	101	6.00	5.87	
Total BTEx	<0.300	0.300	03/07/2014	ND					

Surrogate: Dibromofluoromethane 97.8 % 61.3-142  
 Surrogate: Toluene-d8 106 % 71.3-129  
 Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	03/07/2014	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/07/2014	ND	194	97.1	200	8.76	
DRO >C10-C28	<10.0	10.0	03/07/2014	ND	232	116	200	7.85	

Surrogate: 1-Chlorooctane 102 % 65.2-140  
 Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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\*=Accredited Analyte

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Mike Snyder, Organic Supervisor



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**Analytical Results For:**

APACHE - EUNICE  
 BRUCE BAKER  
 P. O. BOX 1849  
 EUNICE NM, 88231  
 Fax To: 394-2425

Received: 03/06/2014  
 Reported: 03/07/2014  
 Project Name: LEE FEDERAL TANK BATTERY  
 Project Number: NONE GIVEN  
 Project Location: T17S R31E

Sampling Date: 03/05/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SOUTH WALL (H400686-03)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2014	ND	2.09	105	2.00	1.05	
Toluene*	<0.050	0.050	03/07/2014	ND	2.10	105	2.00	4.70	
Ethylbenzene*	<0.050	0.050	03/07/2014	ND	2.00	99.8	2.00	4.92	
Total Xylenes*	<0.150	0.150	03/07/2014	ND	6.05	101	6.00	5.87	
Total BTX	<0.300	0.300	03/07/2014	ND					

Surrogate: Dibromofluoromethane 94.4 % 61.3-142  
 Surrogate: Toluene-d8 107 % 71.3-129  
 Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	03/07/2014	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/07/2014	ND	194	97.1	200	8.76	
DRO >C10-C28	<10.0	10.0	03/07/2014	ND	232	116	200	7.85	

Surrogate: 1-Chlorooctane 105 % 65.2-140  
 Surrogate: 1-Chlorooctadecane 109 % 63.6-154

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Mike Snyder, Organic Supervisor



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**Analytical Results For:**

APACHE - EUNICE  
 BRUCE BAKER  
 P. O. BOX 1849  
 EUNICE NM, 88231  
 Fax To: 394-2425

Received: 03/06/2014  
 Reported: 03/07/2014  
 Project Name: LEE FEDERAL TANK BATTERY  
 Project Number: NONE GIVEN  
 Project Location: T17S R31E

Sampling Date: 03/05/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: BOTTOM (H400686-04)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2014	ND	2.09	105	2.00	1.05	
Toluene*	<0.050	0.050	03/07/2014	ND	2.10	105	2.00	4.70	
Ethylbenzene*	<0.050	0.050	03/07/2014	ND	2.00	99.8	2.00	4.92	
Total Xylenes*	<0.150	0.150	03/07/2014	ND	6.05	101	6.00	5.87	
Total BTX	<0.300	0.300	03/07/2014	ND					

Surrogate: Dibromofluoromethane 95.6 % 61.3-142  
 Surrogate: Toluene-d8 104 % 71.3-129  
 Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	03/07/2014	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/07/2014	ND	194	97.1	200	8.76	
DRO >C10-C28	<10.0	10.0	03/07/2014	ND	232	116	200	7.85	

Surrogate: 1-Chlorooctane 99.8 % 65.2-140  
 Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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Mike Snyder, Organic Supervisor



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### Notes and Definitions

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

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

Mike Snyder, Organic Supervisor



\* Rusty \*

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 7 of 7





**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
  
Action 10834

CONDITIONS

Operator:  APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID:  873
	Action Number:  10834
	Action Type:  [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bhall	Site must meet the requirements of 19.15.29.13 NMAC at time of plugging and abandonment.	2/8/2023