



October 13, 2020

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

RE: 1RP-2915 EBDU # 9

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 September 9, 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.

Sincerely,

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

Larry Baker
Environmental Technician SR.
Apache Corporation

Attachment: Closure Report Dated October 13, 2020



303 Veterans Airpark Lane Midland, TX 79705

Closure Report

October 13, 2020

Re: EBDU #9
Case # 1RP-2951

On 9/9/2013 a release occurred due to the flow line plugged off with paraffin after hot watering and the flow line pressured up and blew out. The release (GPS: 32.503313, -103.118604) is located north of Eunice, New Mexico in unit letter O section 1 township 21S range 37E. A groundwater survey was conducted utilizing data from USGS and NMOSE wells of record. The nearest well suggest that groundwater is 72 feet below ground surface.

On 9/13/2013 Pt. 1 was delineated to a depth of 6 feet. Samples were collected and field titrated for chlorides and representative samples were submitted to a commercial laboratory for analysis of chloride and TPH. The data was submitted to OCD. OCD approved the excavation and backfilling the release on 9/18/2013. The remediation and backfill was completed in 2013.

Due to the lack of remediation documentation Apache Corporation utilizing google images went back to the impacted area to collect samples to confirm the work was completed in 2013. On 10/7/2020 5 sample points were advanced to a depth of 5 feet utilizing a hand auger in the release area. Samples were collected in one foot intervals and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. All laboratory analysis were below table one standards for release 51 to 100 feet to groundwater.

Apache Corporation has completed remediation and respectfully request closure of event 1RP-2951.

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

Administrative/Environmental Order



AE Order Number Banner

Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



App Number: pJXK1606054450

1RP - 2951

APACHE CORP

3/1/2016

MAR 01 2016

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

HOBBS OCD

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

SEP 09 2013

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

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

RECEIVED

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Apache Corporation	Contact Bruce Baker
Address PO Box 1849, Eunice, NM 88231	Telephone No. (432) 631-6982
Facility Name EBDU # 9	Facility Type Production Well
Surface Owner Paige McNeil	Mineral Owner
API No. 30-025-34937	

LOCATION OF RELEASE

Unit Letter O	Section 1	Township 21S	Range 37E	Feet from the 990'	North/South Line FSL	Feet from the 2480	East/West Line FWL	County Lea
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Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release Oil and produced water	Volume of Release Unknown	Volume Recovered 0 bbls
Source of Release Flow line	Date and Hour of Occurrence 9/9/2013 7:00 a.m.	Date and Hour of Discovery 9/9/2013 7:00 a.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mr. Leking	
By Whom? Bruce Baker	Date and Hour 9/9/13 2:17 p.m.	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

The flow line plugged off with paraffin after hot watering the back side and the flow line pressured up and blew out. The site was mapped and initial samples were collected.

Describe Area Affected and Cleanup Action Taken.*

961 square feet of pasture area was affected. A one call was placed and site will be delineated.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>Bruce Baker</i>	OIL CONSERVATION DIVISION <i>Larry Baker</i> Environmental Specialist	
Printed Name: Bruce Baker	Approved by Environmental Specialist	
Title: Environmental Technician	Approval Date: 9/11/13	Expiration Date: 11/11/13
E-mail Address: larry.baker@apachecorp.com	Conditions of Approval: SUBMIT FINAL	
Date: 9/11/13 Phone: (432) 631-6982	C-141 BY 11/11/13	Attached <input type="checkbox"/> LRP-9-13-2951

* Attach Additional Sheets If Necessary

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>72</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 not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

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

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: 10/13/2020
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.

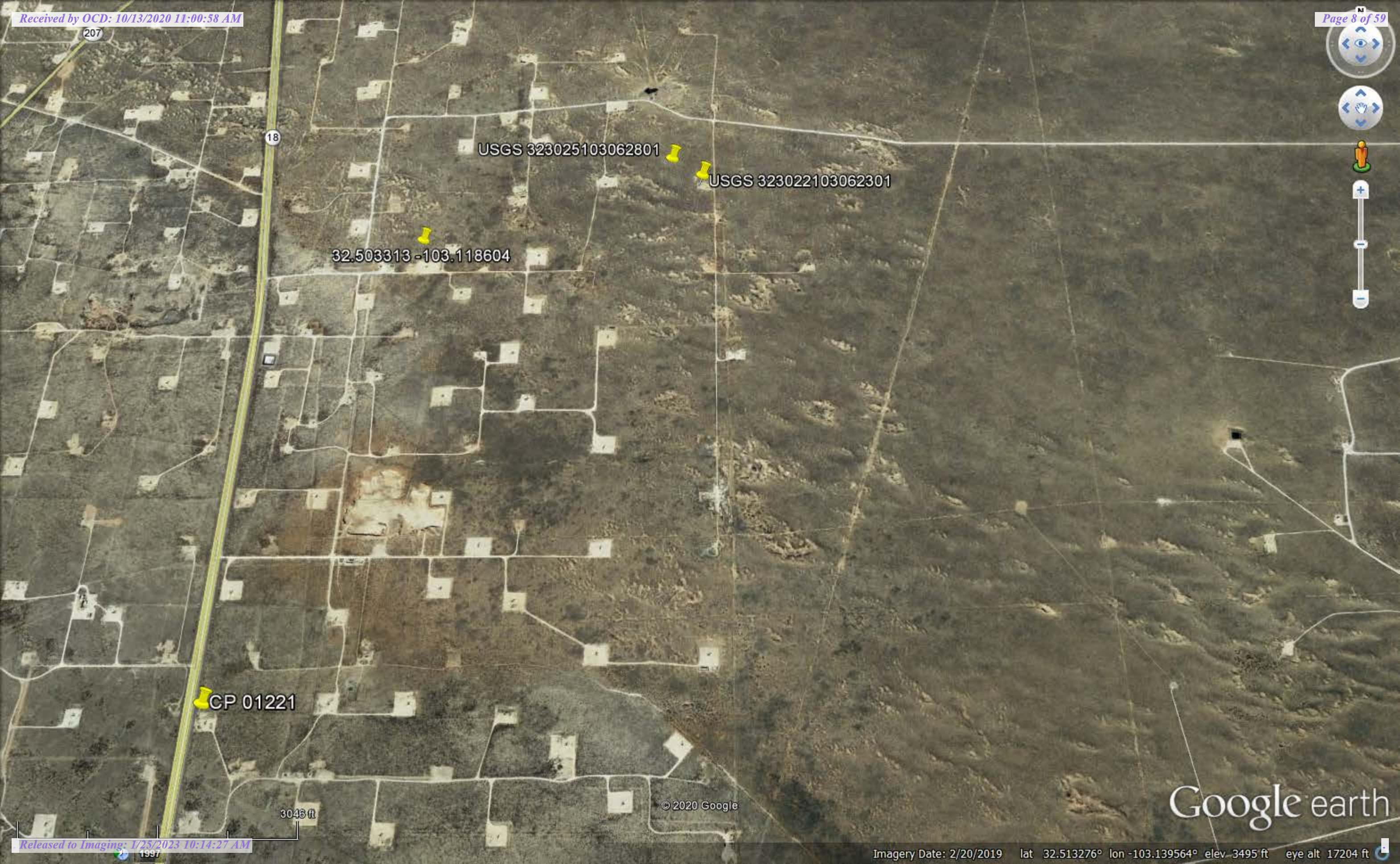
Printed Name: Larry Baker Title: Environmental Tech SR.
Signature: Larry Baker Date: 10/13/2020
email: larry.baker@apachecorp.com Telephone: 432-631-6982

OCD Only

Received by: OCD Date: 10/13/2020

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: Ashley Maxwell Date: 01/24/2023
Printed Name: Ashley Maxwell Title: Environmental Specialist



Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°30'22", Longitude 103°06'23" NAD27
Land-surface elevation 3,556 feet above NAVD88
The depth of the well is 90 feet below land surface.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

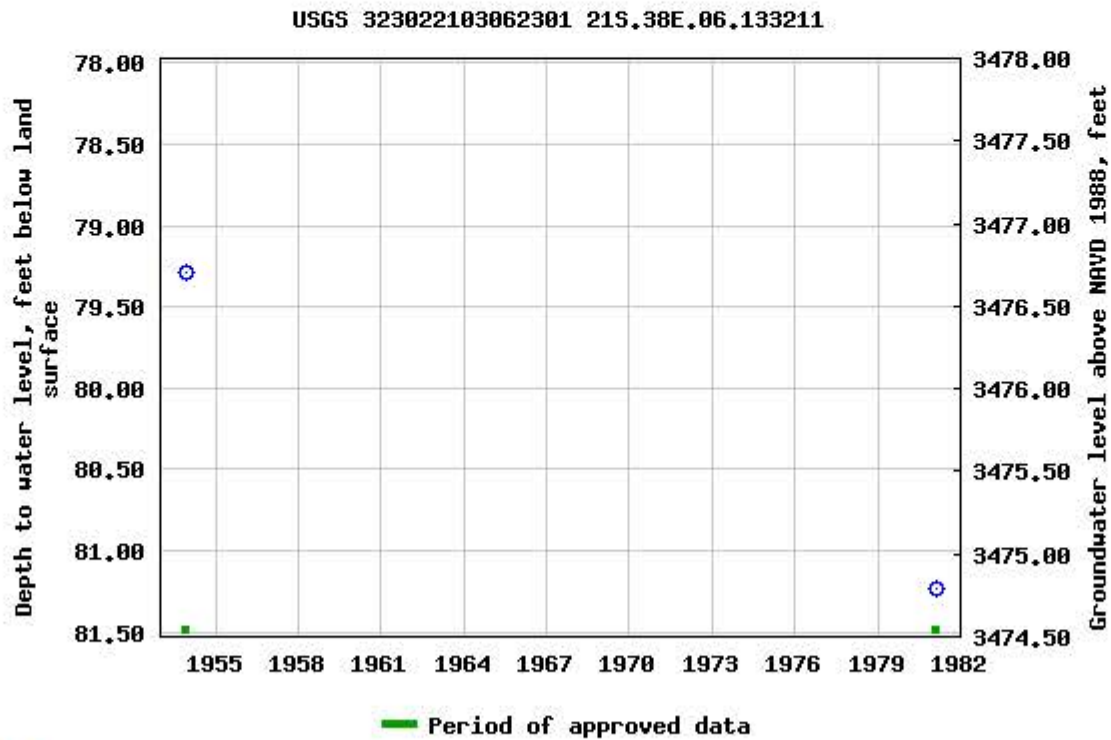
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.

[Download a presentation-quality graph](#)

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°30'25", Longitude 103°06'28" NAD27
Land-surface elevation 3,556 feet above NAVD88
The depth of the well is 90 feet below land surface.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

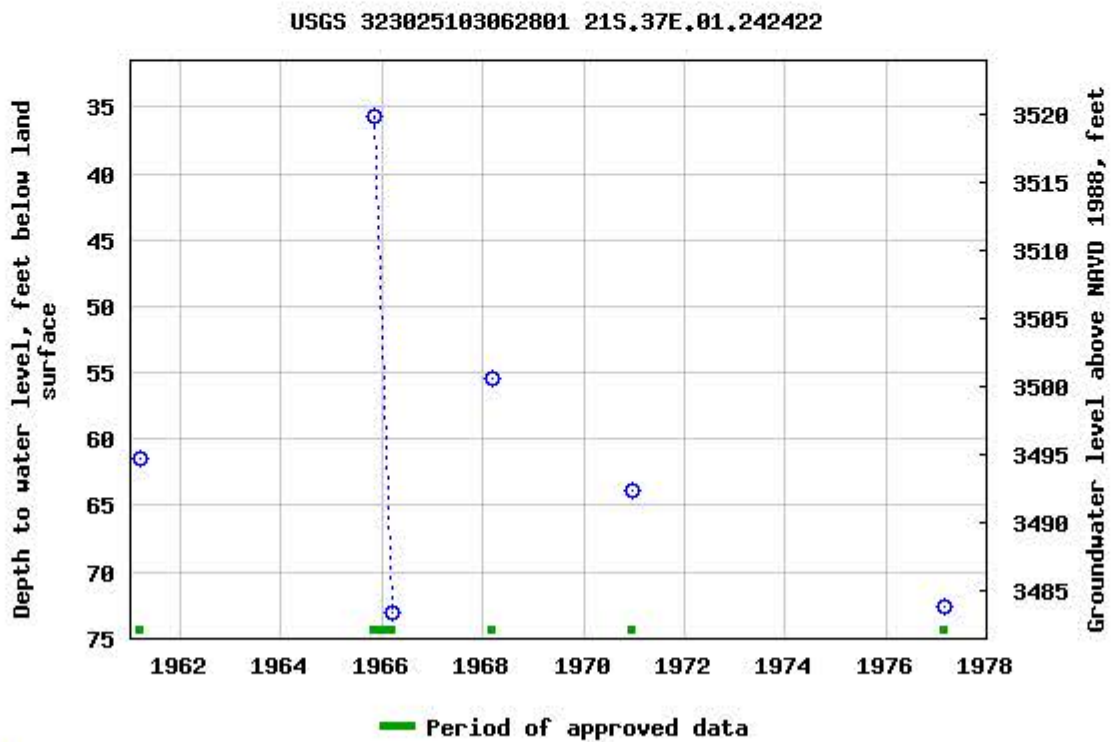
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)




Breaks in the plot represent a gap of at least one year between field measurements.

[Download a presentation-quality graph](#)



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 01221 POD1	4	4	4	11	21S	37E	676254	3588506 
<hr/>									
Driller License:	1711	Driller Company:				STRAUB CORPORATION			
Driller Name:	MARTIN STRAUB								
Drill Start Date:	11/07/2013	Drill Finish Date:				11/07/2013		Plug Date:	
Log File Date:	12/09/2013	PCW Rcv Date:				Source: Shallow			
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size:	4.00	Depth Well:				75 feet		Depth Water: 60 feet	
<hr/>									
Water Bearing Stratifications:					Top	Bottom	Description		
					60	66	Sandstone/Gravel/Conglomerate		
					66	75	Sandstone/Gravel/Conglomerate		
<hr/>									
Casing Perforations:					Top	Bottom			
					50	75			
<hr/>									

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

10/13/20 8:52 AM

POINT OF DIVERSION SUMMARY

Coordinates

Please Select a Coordinate System and enter the coordinates:

GCS_WGS_1984

32.503313

-103.118604

Show

Radius

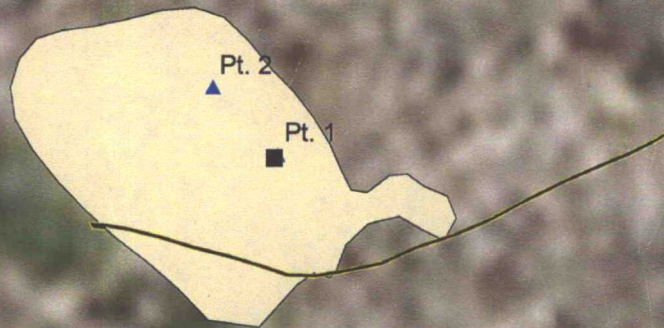
Buffer Size (miles) : 0.5

Click Map to Draw Radius



Vertical Sampling Data

	Vertical @ Pt. 1			
	CI-	PID	GRO	DRO
SS	2280	4922	3960	17400
1'	1921	196.3		
2'	1587	217		
3'	2264	36		
4'	1618	246		
5'	64	0.63	<10	14.6
6'	48	0.51	<10	<10



approved for excavation & backfill
Jeffrey Sekins
 Environmental Specialist
 NMOC-DIST 1
 9/18/13

Legend

- VERTICAL
- ▲ SAMPLE POINT
- SURFACE POLY LINE
- STAIN (951 sq ft)

CI- FIELD DATA

CI- LAB DATA

DGW = 77 ft

Landowner: WFM Ranch Ltd

Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX,
 Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



APACHE
EBDU #009
1RP-9-13-2951
 LEGALS: UL/V sec. 1
 T-21-S R-37-E
 LEA COUNTY, NM

SEP 17 2013

RECEIVED

0 10 20
 Feet

GPS date: 9/13/13 EC
 Drawing date: 9/17/13
 Drafted by: L. Weinheimer



2/2014

2014 Image

SP2
SP 5 SP 1 SP 3
SP4

Google™ earth

50 ft

2019 Image

SP2
SP 5 SP 1 SP 3
SP4

© 2020 Google

Google™ earth

2020 Samples

Sample Date	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
10/7/2020	SP 1	Surface	16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.503313, -103.118604
		1'	16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		2'	32.0									
		3'	16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		4'	32.0									
		5'	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
10/7/2020	SP 2	Surface	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.503359, -103.118601
		1'	16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		2'	<16.0									
		3'	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		4'	<16.0									
		5'	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
10/7/2020	SP 3	Surface	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.503315, -103.118551
		1'	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		2'	<16.0									
		3'	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		4'	16.0									
		5'	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
10/7/2020	SP 4	Surface	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.503273, -103.118606
		1'	32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		2'	<16.0									
		3'	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		4'	<16.0									
		5'	592	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
10/7/2020	SP 5	Surface	32.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.503314, -103.118658
		1'	16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		2'	16.0									
		3'	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		4'	16.0									
		5'	48.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	



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

October 09, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EBDU #9

Enclosed are the results of analyses for samples received by the laboratory on 10/07/20 15:11.

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.

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: 10/07/2020
 Reported: 10/09/2020
 Project Name: EBDU #9
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/07/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ SURFACE (H002666-01)

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	10/08/2020	ND	2.03	102	2.00	5.71	
Toluene*	<0.050	0.050	10/08/2020	ND	2.01	101	2.00	6.65	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	1.98	98.9	2.00	6.23	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.63	93.8	6.00	6.53	
Total BTEX	<0.300	0.300	10/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 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	16.0	16.0	10/08/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2020	ND	201	101	200	2.91	
DRO >C10-C28*	<10.0	10.0	10/08/2020	ND	198	98.8	200	12.5	
EXT DRO >C28-C36	<10.0	10.0	10/08/2020	ND					

Surrogate: 1-Chlorooctane 119 % 44.3-144

Surrogate: 1-Chlorooctadecane 136 % 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: 10/07/2020
 Reported: 10/09/2020
 Project Name: EBDU #9
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/07/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1' (H002666-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2020	ND	2.03	102	2.00	5.71	
Toluene*	<0.050	0.050	10/08/2020	ND	2.01	101	2.00	6.65	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	1.98	98.9	2.00	6.23	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.63	93.8	6.00	6.53	
Total BTX	<0.300	0.300	10/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 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	10/08/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2020	ND	201	101	200	2.91	
DRO >C10-C28*	<10.0	10.0	10/08/2020	ND	198	98.8	200	12.5	
EXT DRO >C28-C36	<10.0	10.0	10/08/2020	ND					

Surrogate: 1-Chlorooctane 117 % 44.3-144

Surrogate: 1-Chlorooctadecane 134 % 42.2-156

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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: 10/07/2020
 Reported: 10/09/2020
 Project Name: EBDU #9
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/07/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 2' (H002666-03)

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	10/08/2020	ND	400	100	400	3.92	

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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: 10/07/2020
 Reported: 10/09/2020
 Project Name: EBDU #9
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/07/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 3' (H002666-04)

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	10/08/2020	ND	2.03	102	2.00	5.71	
Toluene*	<0.050	0.050	10/08/2020	ND	2.01	101	2.00	6.65	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	1.98	98.9	2.00	6.23	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.63	93.8	6.00	6.53	
Total BTX	<0.300	0.300	10/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 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	10/08/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2020	ND	201	101	200	2.91	
DRO >C10-C28*	<10.0	10.0	10/08/2020	ND	198	98.8	200	12.5	
EXT DRO >C28-C36	<10.0	10.0	10/08/2020	ND					

Surrogate: 1-Chlorooctane 119 % 44.3-144

Surrogate: 1-Chlorooctadecane 136 % 42.2-156

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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: 10/07/2020
 Reported: 10/09/2020
 Project Name: EBDU #9
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/07/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 4' (H002666-05)

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	10/08/2020	ND	400	100	400	3.92	

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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: 10/07/2020
 Reported: 10/09/2020
 Project Name: EBDU #9
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/07/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 5' (H002666-06)

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	10/08/2020	ND	2.03	102	2.00	5.71	
Toluene*	<0.050	0.050	10/08/2020	ND	2.01	101	2.00	6.65	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	1.98	98.9	2.00	6.23	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.63	93.8	6.00	6.53	
Total BTX	<0.300	0.300	10/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 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	10/08/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2020	ND	201	101	200	2.91	
DRO >C10-C28*	<10.0	10.0	10/08/2020	ND	198	98.8	200	12.5	
EXT DRO >C28-C36	<10.0	10.0	10/08/2020	ND					

Surrogate: 1-Chlorooctane 119 % 44.3-144

Surrogate: 1-Chlorooctadecane 136 % 42.2-156

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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: 10/07/2020
 Reported: 10/09/2020
 Project Name: EBDU #9
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/07/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ SURFACE (H002666-07)

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	10/08/2020	ND	2.03	102	2.00	5.71	
Toluene*	<0.050	0.050	10/08/2020	ND	2.01	101	2.00	6.65	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	1.98	98.9	2.00	6.23	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.63	93.8	6.00	6.53	
Total BTX	<0.300	0.300	10/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	<16.0	16.0	10/08/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2020	ND	201	101	200	2.91	
DRO >C10-C28*	<10.0	10.0	10/08/2020	ND	198	98.8	200	12.5	
EXT DRO >C28-C36	<10.0	10.0	10/08/2020	ND					

Surrogate: 1-Chlorooctane 117 % 44.3-144

Surrogate: 1-Chlorooctadecane 132 % 42.2-156

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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: 10/07/2020
 Reported: 10/09/2020
 Project Name: EBDU #9
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/07/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 1' (H002666-08)

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	10/08/2020	ND	2.03	102	2.00	5.71	
Toluene*	<0.050	0.050	10/08/2020	ND	2.01	101	2.00	6.65	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	1.98	98.9	2.00	6.23	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.63	93.8	6.00	6.53	
Total BTX	<0.300	0.300	10/08/2020	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	16.0	16.0	10/08/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2020	ND	201	101	200	2.91	
DRO >C10-C28*	<10.0	10.0	10/08/2020	ND	198	98.8	200	12.5	
EXT DRO >C28-C36	<10.0	10.0	10/08/2020	ND					

Surrogate: 1-Chlorooctane 130 % 44.3-144

Surrogate: 1-Chlorooctadecane 147 % 42.2-156

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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: 10/07/2020
 Reported: 10/09/2020
 Project Name: EBDU #9
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/07/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 2' (H002666-09)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/08/2020	ND	400	100	400	3.92	

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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: 10/07/2020
 Reported: 10/09/2020
 Project Name: EBDU #9
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/07/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 3' (H002666-10)

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	10/08/2020	ND	2.03	102	2.00	5.71	
Toluene*	<0.050	0.050	10/08/2020	ND	2.01	101	2.00	6.65	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	1.98	98.9	2.00	6.23	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.63	93.8	6.00	6.53	
Total BTEx	<0.300	0.300	10/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 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	10/08/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2020	ND	201	101	200	2.91	
DRO >C10-C28*	<10.0	10.0	10/08/2020	ND	198	98.8	200	12.5	
EXT DRO >C28-C36	<10.0	10.0	10/08/2020	ND					

Surrogate: 1-Chlorooctane 124 % 44.3-144

Surrogate: 1-Chlorooctadecane 139 % 42.2-156

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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: 10/07/2020
 Reported: 10/09/2020
 Project Name: EBDU #9
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/07/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 4' (H002666-11)

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/08/2020	ND	400	100	400	3.92		

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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: 10/07/2020
 Reported: 10/09/2020
 Project Name: EBDU #9
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/07/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 5' (H002666-12)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2020	ND	2.03	102	2.00	5.71	
Toluene*	<0.050	0.050	10/08/2020	ND	2.01	101	2.00	6.65	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	1.98	98.9	2.00	6.23	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.63	93.8	6.00	6.53	
Total BTX	<0.300	0.300	10/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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	10/08/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2020	ND	201	101	200	2.91	
DRO >C10-C28*	<10.0	10.0	10/08/2020	ND	198	98.8	200	12.5	
EXT DRO >C28-C36	<10.0	10.0	10/08/2020	ND					

Surrogate: 1-Chlorooctane 138 % 44.3-144

Surrogate: 1-Chlorooctadecane 155 % 42.2-156

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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: 10/07/2020
 Reported: 10/09/2020
 Project Name: EBDU #9
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/07/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ SURFACE (H002666-13)

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	10/08/2020	ND	2.03	102	2.00	5.71	
Toluene*	<0.050	0.050	10/08/2020	ND	2.01	101	2.00	6.65	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	1.98	98.9	2.00	6.23	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.63	93.8	6.00	6.53	
Total BTEx	<0.300	0.300	10/08/2020	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	<16.0	16.0	10/08/2020	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2020	ND	201	101	200	2.91	
DRO >C10-C28*	<10.0	10.0	10/08/2020	ND	198	98.8	200	12.5	
EXT DRO >C28-C36	<10.0	10.0	10/08/2020	ND					

Surrogate: 1-Chlorooctane 129 % 44.3-144

Surrogate: 1-Chlorooctadecane 147 % 42.2-156

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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: 10/07/2020
 Reported: 10/09/2020
 Project Name: EBDU #9
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/07/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ 1' (H002666-14)

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	2.03	102	2.00	5.71	
Toluene*	<0.050	0.050	10/08/2020	ND	2.01	101	2.00	6.65	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	1.98	98.9	2.00	6.23	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.63	93.8	6.00	6.53	
Total BTX	<0.300	0.300	10/08/2020	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	<16.0	16.0	10/08/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2020	ND	201	101	200	2.91	
DRO >C10-C28*	<10.0	10.0	10/08/2020	ND	198	98.8	200	12.5	
EXT DRO >C28-C36	<10.0	10.0	10/08/2020	ND					

Surrogate: 1-Chlorooctane 129 % 44.3-144

Surrogate: 1-Chlorooctadecane 146 % 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: 10/07/2020
 Reported: 10/09/2020
 Project Name: EBDU #9
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/07/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ 2' (H002666-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/08/2020	ND	400	100	400	0.00	

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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: 10/07/2020
 Reported: 10/09/2020
 Project Name: EBDU #9
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/07/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ 3' (H002666-16)

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	2.03	102	2.00	5.71	
Toluene*	<0.050	0.050	10/08/2020	ND	2.01	101	2.00	6.65	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	1.98	98.9	2.00	6.23	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.63	93.8	6.00	6.53	
Total BTX	<0.300	0.300	10/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	<16.0	16.0	10/08/2020	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2020	ND	214	107	200	5.94	QM-07, QR-03
DRO >C10-C28*	<10.0	10.0	10/08/2020	ND	221	111	200	6.79	QR-03
EXT DRO >C28-C36	<10.0	10.0	10/08/2020	ND					

Surrogate: 1-Chlorooctane 123 % 44.3-144

Surrogate: 1-Chlorooctadecane 139 % 42.2-156

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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: 10/07/2020
 Reported: 10/09/2020
 Project Name: EBDU #9
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/07/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ 4' (H002666-17)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/08/2020	ND	400	100	400	0.00	

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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: 10/07/2020
 Reported: 10/09/2020
 Project Name: EBDU #9
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/07/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ 5' (H002666-18)

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	2.03	102	2.00	5.71	
Toluene*	<0.050	0.050	10/08/2020	ND	2.01	101	2.00	6.65	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	1.98	98.9	2.00	6.23	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.63	93.8	6.00	6.53	
Total BTEx	<0.300	0.300	10/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 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	10/08/2020	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2020	ND	201	101	200	2.91	
DRO >C10-C28*	<10.0	10.0	10/08/2020	ND	198	98.8	200	12.5	
EXT DRO >C28-C36	<10.0	10.0	10/08/2020	ND					

Surrogate: 1-Chlorooctane 124 % 44.3-144

Surrogate: 1-Chlorooctadecane 142 % 42.2-156

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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: 10/07/2020
 Reported: 10/09/2020
 Project Name: EBDU #9
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/07/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 4 @ SURFACE (H002666-19)

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	2.03	102	2.00	5.71	
Toluene*	<0.050	0.050	10/08/2020	ND	2.01	101	2.00	6.65	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	1.98	98.9	2.00	6.23	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.63	93.8	6.00	6.53	
Total BTX	<0.300	0.300	10/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 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	<16.0	16.0	10/08/2020	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2020	ND	200	100	200	10.2	
DRO >C10-C28*	<10.0	10.0	10/08/2020	ND	205	102	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	10/08/2020	ND					

Surrogate: 1-Chlorooctane 111 % 44.3-144

Surrogate: 1-Chlorooctadecane 112 % 42.2-156

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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: 10/07/2020
 Reported: 10/09/2020
 Project Name: EBDU #9
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/07/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 4 @ 1' (H002666-20)

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	10/08/2020	ND	2.03	102	2.00	5.71	
Toluene*	<0.050	0.050	10/08/2020	ND	2.01	101	2.00	6.65	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	1.98	98.9	2.00	6.23	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.63	93.8	6.00	6.53	
Total BTEx	<0.300	0.300	10/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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	32.0	16.0	10/08/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2020	ND	200	100	200	10.2	
DRO >C10-C28*	<10.0	10.0	10/08/2020	ND	205	102	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	10/08/2020	ND					

Surrogate: 1-Chlorooctane 111 % 44.3-144

Surrogate: 1-Chlorooctadecane 110 % 42.2-156

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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: 10/07/2020
 Reported: 10/09/2020
 Project Name: EBDU #9
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/07/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 4 @ 2' (H002666-21)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/08/2020	ND	400	100	400	0.00	

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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: 10/07/2020
 Reported: 10/09/2020
 Project Name: EBDU #9
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/07/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 4 @ 3' (H002666-22)

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	2.03	102	2.00	5.71	
Toluene*	<0.050	0.050	10/08/2020	ND	2.01	101	2.00	6.65	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	1.98	98.9	2.00	6.23	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.63	93.8	6.00	6.53	
Total BTX	<0.300	0.300	10/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 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	<16.0	16.0	10/08/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2020	ND	200	100	200	10.2	
DRO >C10-C28*	<10.0	10.0	10/08/2020	ND	205	102	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	10/08/2020	ND					

Surrogate: 1-Chlorooctane 118 % 44.3-144

Surrogate: 1-Chlorooctadecane 120 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/07/2020
 Reported: 10/09/2020
 Project Name: EBDU #9
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/07/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 4 @ 4' (H002666-23)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/08/2020	ND	400	100	400	0.00	

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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: 10/07/2020
 Reported: 10/09/2020
 Project Name: EBDU #9
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/07/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 4 @ 5' (H002666-24)

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	2.03	102	2.00	5.71	
Toluene*	<0.050	0.050	10/08/2020	ND	2.01	101	2.00	6.65	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	1.98	98.9	2.00	6.23	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.63	93.8	6.00	6.53	
Total BTX	<0.300	0.300	10/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 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	592	16.0	10/08/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2020	ND	200	100	200	10.2	
DRO >C10-C28*	<10.0	10.0	10/08/2020	ND	205	102	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	10/08/2020	ND					

Surrogate: 1-Chlorooctane 115 % 44.3-144

Surrogate: 1-Chlorooctadecane 115 % 42.2-156

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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: 10/07/2020
 Reported: 10/09/2020
 Project Name: EBDU #9
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/07/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 5 @ SURFACE (H002666-25)

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	2.03	102	2.00	5.71	
Toluene*	<0.050	0.050	10/08/2020	ND	2.01	101	2.00	6.65	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	1.98	98.9	2.00	6.23	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.63	93.8	6.00	6.53	
Total BTX	<0.300	0.300	10/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 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	32.0	16.0	10/08/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2020	ND	200	100	200	10.2	
DRO >C10-C28*	<10.0	10.0	10/08/2020	ND	205	102	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	10/08/2020	ND					

Surrogate: 1-Chlorooctane 122 % 44.3-144

Surrogate: 1-Chlorooctadecane 123 % 42.2-156

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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: 10/07/2020
 Reported: 10/09/2020
 Project Name: EBDU #9
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/07/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 5 @ 1' (H002666-26)

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	2.03	102	2.00	5.71	
Toluene*	<0.050	0.050	10/08/2020	ND	2.01	101	2.00	6.65	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	1.98	98.9	2.00	6.23	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.63	93.8	6.00	6.53	
Total BTEx	<0.300	0.300	10/08/2020	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	16.0	16.0	10/08/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2020	ND	200	100	200	10.2	
DRO >C10-C28*	<10.0	10.0	10/08/2020	ND	205	102	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	10/08/2020	ND					

Surrogate: 1-Chlorooctane 112 % 44.3-144

Surrogate: 1-Chlorooctadecane 114 % 42.2-156

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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: 10/07/2020
 Reported: 10/09/2020
 Project Name: EBDU #9
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/07/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 5 @ 2' (H002666-27)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/08/2020	ND	400	100	400	0.00		

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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: 10/07/2020
 Reported: 10/09/2020
 Project Name: EBDU #9
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/07/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 5 @ 3' (H002666-28)

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	2.00	100	2.00	2.10	
Toluene*	<0.050	0.050	10/08/2020	ND	2.03	101	2.00	2.44	
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	1.94	97.0	2.00	2.44	
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.51	91.8	6.00	0.872	
Total BTX	<0.300	0.300	10/08/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 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	<16.0	16.0	10/08/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2020	ND	200	100	200	10.2	
DRO >C10-C28*	<10.0	10.0	10/08/2020	ND	205	102	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	10/08/2020	ND					

Surrogate: 1-Chlorooctane 111 % 44.3-144

Surrogate: 1-Chlorooctadecane 111 % 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: 10/07/2020
 Reported: 10/09/2020
 Project Name: EBDU #9
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/07/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 5 @ 4' (H002666-29)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/08/2020	ND	400	100	400	0.00	

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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: 10/07/2020
 Reported: 10/09/2020
 Project Name: EBDU #9
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY

Sampling Date: 10/07/2020
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 5 @ 5' (H002666-30)

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	2.00	100	2.00	2.10		
Toluene*	<0.050	0.050	10/08/2020	ND	2.03	101	2.00	2.44		
Ethylbenzene*	<0.050	0.050	10/08/2020	ND	1.94	97.0	2.00	2.44		
Total Xylenes*	<0.150	0.150	10/08/2020	ND	5.51	91.8	6.00	0.872		
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	48.0	16.0	10/08/2020	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2020	ND	200	100	200	10.2	
DRO >C10-C28*	<10.0	10.0	10/08/2020	ND	205	102	200	10.8	
EXT DRO >C28-C36	<10.0	10.0	10/08/2020	ND					

Surrogate: 1-Chlorooctane 118 % 44.3-144

Surrogate: 1-Chlorooctadecane 118 % 42.2-156

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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.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

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: Apache Corporation

Project Manager: Bruce Baker

Address:

City:

State:

Zip:

Phone #:

Fax #:

Project #:

Project Owner:

Project Name: E80u #5

Project Location: E80u #9

Sampler Name: Jeff Brown

FOR LAB USE ONLY

P.O. #:

Company:

Attn:

Address:

City:

State:

Zip:

Phone #:

Fax #:

Lab I.D.

Sample I.D.

HDD2666

SP1 @ Surface

1

SP1 @ 1'

2

SP1 @ 2'

3

SP1 @ 3'

4

SP1 @ 4'

5

SP1 @ 5'

6

SP1 @ Surface

7

SP2 @ 1'

8

SP2 @ 2'

9

SP2 @ 3'

10

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

10/7/20

0838

10/7/20

0830

10/7/20

0832

10/7/20

0834

10/7/20

0836

10/7/20

0838

10/7/20

0840

10/7/20

0842

10/7/20

0844

10/7/20

0846

CL-

BTEx

EXT. TPH

Relinquished By: Jeff Brown

Date: 10/7/20

Received By: Jeff Brown

Date: 10/7/20

Time: 1511

Received By: Jeff Brown

Time:

Delivered By: (Circle One)

Observed Temp. °C 3.5

Corrected Temp. °C

Sampler - UPS - Bus - Other:

Sample Condition

Cool Intact

Yes

No

Checked By: Jeff Brown

Turnaround Time:

Standard

Rush

Bacteria (only) Sample Condition

Cool Intact

Yes

No

Corrected Temp. °C

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

All Results are emailed. Please provide Email address:

REMARKS:

BILL TO

ANALYSIS REQUEST



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apac Corporation Project Manager: Bruce Baker Address: City: State: Zip: Phone #: Fax #: Project Owner: Project #: Project Name: EBM #9 Project Location: EBM #9 Sampler Name: Jeff Brown FOR LAB USE ONLY										P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:										BILL TO ANALYSIS REQUEST									
Lab I.D. Sample I.D.										(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :										MATRIX PRESERV. SAMPLING									
11 SP2 @ 4' 12 SP2 @ 5' 13 SP3 @ Surface 14 SP3 @ 1' 15 SP3 @ 2' 16 SP3 @ 3' 17 SP3 @ 4' 18 SP3 @ 5' 19 SP4 @ Surface 20 SP4 @ 1'										DATE TIME 10/7/20 0848 0850 0855 0859 0859 0869 0901 0903 0904 10/7/20 0906										CL BTEX EXT. TPH									
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.										Relinquished By: Jeff Brown Date: 10/7/20 Time: 1511 Date: Received By: Shawn Henderson Time:										Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address: REMARKS:									
Delivered By: (Circle One) Sampler - UPS - Bus - Other:										Observed Temp. °C 3.5 Corrected Temp. °C Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No										CHECKED BY: [Signature] Turnaround Time: Thermometer ID #113 Correction Factor None Standard Rush Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No Observed Temp. °C Corrected Temp. °C									



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apache Corporation							BILL TO		ANALYSIS REQUEST	
Project Manager: Bruce Baker							P.O. #:			
Address:							Company:			
City:							Attn:			
State:							Address:			
Phone #:							City:			
Fax #:							State:			
Project #: Project Owner:							Zip:			
Project Location: EBBU #5							Phone #:			
Sample Name: Jeff Brown							Fax #:			
FOR LAB USE ONLY							MATRIX		PRESERV.	
							GROUNDWATER		DATE	
							WASTEWATER		TIME	
							SOIL			
							OIL			
							SLUDGE			
							OTHER :			
							ACID/BASE:			
							ICE / COOL			
							OTHER :			
							SAMPLING			
Lab I.D. Sample I.D.										
HDOZLdldc										
21 SP4 @ 2'							✓		CL	
22 SP4 @ 3'							✓		BTex	
23 SP4 @ 4'							✓		EXT. TPH	
24 SP4 @ 5'							✓			
25 SP5 @ Surface							✓			
26 SP5 @ 1'							✓			
27 SP5 @ 2'							✓			
28 SP5 @ 3'							✓			
29 SP5 @ 4'							✓			
30 SP5 @ 5'							✓			
10/7/20							0940			
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Relinquished By: Jeff Brown							Received By: Heidi Henderson			
Date: 10/7/20							Time: 1511			
Relinquished By: Jeff Brown							Received By: Heidi Henderson			
Delivered By: (Circle One) Observed Temp. °C 3.5							Sample Condition Cool Intact Yes [X] No []		CHECKED BY: (Initials) JTB	
Sampler - UPS - Bus - Other: Corrected Temp. °C							Thermometer ID #113 Correction Factor None		Standard Rush [X]	
							Bacteria (only) Sample Condition Cool Intact Yes [] No []		Observed Temp. °C Corrected Temp. °C	
							Add'l Phone #:			
							Verbal Result: Yes [] No []		All Results are emailed. Please provide Email address:	
							REMARKS:			
							Turnaround Time:			



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

September 17, 2013

BRUCE BAKER

APACHE - EUNICE

P. O. BOX 1849

EUNICE, NM 88231

RE: EBDU #9

Enclosed are the results of analyses for samples received by the laboratory on 09/13/13 10:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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: 09/13/2013
 Reported: 09/17/2013
 Project Name: EBDU #9
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/13/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT 1 SURFACE (H302213-01)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	09/16/2013	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	3960	50.0	09/16/2013	ND	187	93.5	200	7.17	
DRO >C10-C28	17400	50.0	09/16/2013	ND	163	81.5	200	12.6	

Surrogate: 1-Chlorooctane 186 % 65.2-140

Surrogate: 1-Chlorooctadecane 430 % 63.6-154

Sample ID: PT 1 5' (H302213-02)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/16/2013	ND	416	104	400	3.77	
TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/16/2013	ND	187	93.5	200	7.17	
DRO >C10-C28	14.6	10.0	09/16/2013	ND	163	81.5	200	12.6	

Surrogate: 1-Chlorooctane 99.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/13/2013
 Reported: 09/17/2013
 Project Name: EBDU #9
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/13/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT 1 6' (H302213-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/16/2013	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/16/2013	ND	187	93.5	200	7.17	
DRO >C10-C28	<10.0	10.0	09/16/2013	ND	163	81.5	200	12.6	

Surrogate: 1-Chlorooctane 88.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.9 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in cursive script, reading "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

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

Company Name: APACHE		P.O. #:		BILL TO ANALYSIS REQUEST											
Project Manager: BRUCE BAKER		Company:													
Address:		City:		Address:		City:		State:		Zip:		Phone #:		Fax #:	
Project #:		Project Owner:		State:		Zip:		Phone #:		Fax #:		Matrix		Preserv	
Project Name:		Project Location:		Sample Name:		Sample Location:		Sample Name:		Sample Location:		Matrix		Preserv	
Project Name: EBDU#9		Project Location: EBDU#9		Sample Name: EDWARDS CEMETERY		Sample Location: EDWARDS CEMETERY		Matrix		Preserv		SAMPLING		SAMPLING	
FOR LAB USE ONLY		FOR LAB USE ONLY		FOR LAB USE ONLY		FOR LAB USE ONLY		FOR LAB USE ONLY		FOR LAB USE ONLY		FOR LAB USE ONLY		FOR LAB USE ONLY	
Lab I.D. H30213		Sample I.D. H30213		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL	
Pt.1 Surface		G1		1		1		1		1		1		1	
Pt.1 S'		G1		1		1		1		1		1		1	
Pt.1 6'		G1		1		1		1		1		1		1	
DATE		TIME		DATE		TIME		DATE		TIME		DATE		TIME	
9-13-13		9:00		9-13-13		9:00		9-13-13		9:00		9-13-13		9:00	
9:05		9:10		9:05		9:10		9:05		9:10		9:05		9:10	
CHLORIDES		+PH		CHLORIDES		+PH		CHLORIDES		+PH		CHLORIDES		+PH	





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 10604

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 10604
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	1/25/2023