



303 Veterans Airpark Lane Midland, TX 79705

Remediation Plan

December 20, 2021

Re: NEDU CTB
Case nAPP2127147753

Background:

On 9/25/2021 a release occurred due to an 8-inch steel line corroded. The release area (GPS: 32.487188, -103.143346) is located north of Eunice, New Mexico in unit letter P section 10 township 21S range 37E. On 2/28/2019 a soil bore (GPS: 32.487560, -103.144519) was conducted west of the facility. The bore hole was gauged, and groundwater was confirmed at a depth of 28.5 feet below ground surface.

On 12/3/2021 vertical delineation was conducted utilizing a backhoe to a depth of 1 foot. 5-point surface horizontal 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.

Remediation Plan:

Apache Corporation proposes that the release area be excavated to a depth of 6 inches to 1 foot. Final 5-point bottom and wall samples will be collected not to exceed 200 square feet and all samples collected will be submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. All excavated material (148 yards) will be disposed of at an OCD approved disposal facility. Once laboratory analysis is below table one standards for releases less than 50 feet to groundwater the excavation will be backfilled with clean imported caliche to restore the pad. The remediation will be completed within 90 days of OCD approval of the plan.

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

Submitted by.

Larry Baker

Environmental Technician
larry.baker@apachecorp.com
Cell# 432-215-2284

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>28.5</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 type="checkbox"/> Yes <input checked="" 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: 12/20/2021
 email: larry.baker@apachecorp.com Telephone: 432-215-2284

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: Larry Baker Title: Environmental Tech SR.
 Signature: *Larry Baker* Date: 12/20/2021
 email: larry.baker@apachecorp.com Telephone: 432-215-2284

OCD Only

Received by: Chad Hensley Date: 01/13/2022

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: *Chad Hensley* Date: 01/13/2022



BH

SP1

H3

SP2

H1

SP3

SP4

H2

145 ft

Radius

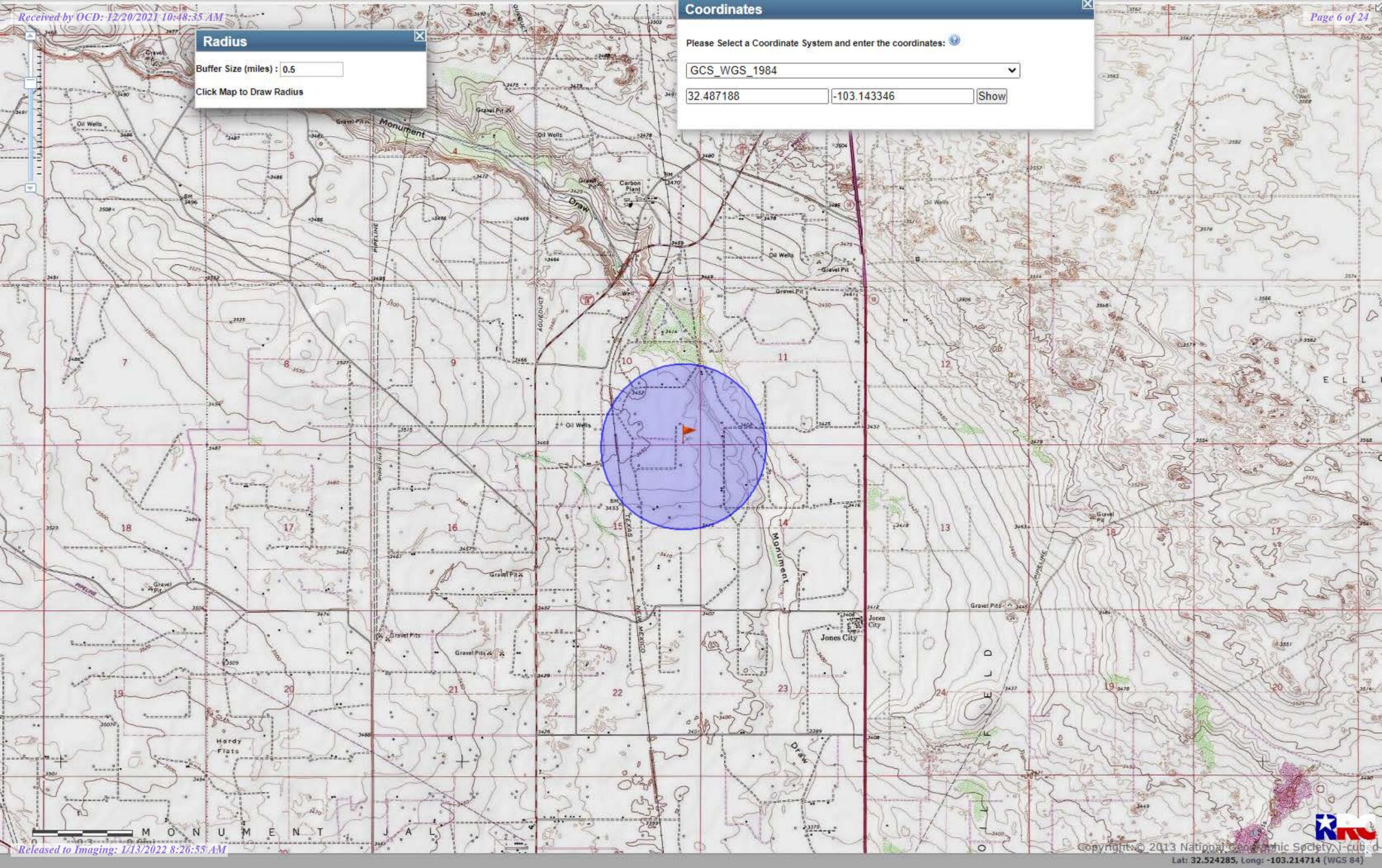
Buffer Size (miles) :

Click Map to Draw Radius

Coordinates

Please Select a Coordinate System and enter the coordinates:

GCS_WGS_1984





69 ft

Google Earth
Earth Point

Sample Date	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
Delineation Samples												
12/3/2021	SP 1	S	5,520	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.487451, -103.143789
		1'	464	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
12/3/2021	SP 2	S	762	<0.050	0.058	0.117	1.140	1.31	<10.0	463	118	32.487375, -103.143613
		1'	384	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
12/3/2021	SP 3	S	496	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	63.8	16.6	32.487374, -103.143421
		1'	256	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
12/3/2021	SP 4	S	1,740	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.487321, -103.143206
		1'	272	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
12/3/2021	H1	S	256	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.487316, -103.143616
12/3/2021	H2	S	560	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.487323, -103.143129
12/3/2021	H3	S	336	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.487442, -103.143699



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

December 08, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU CTB

Enclosed are the results of analyses for samples received by the laboratory on 12/03/21 16:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

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:	12/03/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	NEDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP 1 @ SURFACE (H213496-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/08/2021	ND	2.00	100	2.00	10.3	
Toluene*	<0.050	0.050	12/08/2021	ND	1.98	99.0	2.00	8.00	
Ethylbenzene*	<0.050	0.050	12/08/2021	ND	1.96	98.1	2.00	8.64	
Total Xylenes*	<0.150	0.150	12/08/2021	ND	5.96	99.4	6.00	9.16	
Total BTEX	<0.300	0.300	12/08/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5520	16.0	12/08/2021	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	12/07/2021	ND	192	95.9	200	7.90	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	206	103	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 60.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 64.2 % 38.9-142

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/03/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	NEDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP 1 @ 1' (H213496-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/08/2021	ND	2.00	100	2.00	10.3	
Toluene*	<0.050	0.050	12/08/2021	ND	1.98	99.0	2.00	8.00	
Ethylbenzene*	<0.050	0.050	12/08/2021	ND	1.96	98.1	2.00	8.64	
Total Xylenes*	<0.150	0.150	12/08/2021	ND	5.96	99.4	6.00	9.16	
Total BTEX	<0.300	0.300	12/08/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	12/08/2021	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	12/07/2021	ND	192	95.9	200	7.90	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	206	103	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 61.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 65.5 % 38.9-142

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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:	12/03/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	NEDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP 2 @ SURFACE (H213496-03)

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	12/08/2021	ND	2.00	100	2.00	10.3	
Toluene*	0.058	0.050	12/08/2021	ND	1.98	99.0	2.00	8.00	
Ethylbenzene*	0.117	0.050	12/08/2021	ND	1.96	98.1	2.00	8.64	
Total Xylenes*	1.14	0.150	12/08/2021	ND	5.96	99.4	6.00	9.16	
Total BTEX	1.31	0.300	12/08/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	12/08/2021	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	12/07/2021	ND	192	95.9	200	7.90	
DRO >C10-C28*	463	10.0	12/07/2021	ND	206	103	200	1.62	
EXT DRO >C28-C36	118	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 65.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 102 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/03/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	NEDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP 2 @ 1' (H213496-04)

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	12/07/2021	ND	1.83	91.4	2.00	7.22		
Toluene*	<0.050	0.050	12/07/2021	ND	1.75	87.7	2.00	6.55		
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.72	86.0	2.00	6.52		
Total Xylenes*	<0.150	0.150	12/07/2021	ND	5.29	88.2	6.00	6.23		
Total BTEX	<0.300	0.300	12/07/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	12/08/2021	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	12/07/2021	ND	192	95.9	200	7.90		
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	206	103	200	1.62		
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND						

Surrogate: 1-Chlorooctane 67.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.2 % 38.9-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/03/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	NEDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP 3 @ SURFACE (H213496-05)

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	12/07/2021	ND	1.83	91.4	2.00	7.22	
Toluene*	<0.050	0.050	12/07/2021	ND	1.75	87.7	2.00	6.55	
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.72	86.0	2.00	6.52	
Total Xylenes*	<0.150	0.150	12/07/2021	ND	5.29	88.2	6.00	6.23	
Total BTEX	<0.300	0.300	12/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	12/08/2021	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	12/07/2021	ND	192	95.9	200	7.90	
DRO >C10-C28*	63.8	10.0	12/07/2021	ND	206	103	200	1.62	
EXT DRO >C28-C36	16.6	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 66.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.1 % 38.9-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/03/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	NEDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP 3 @ 1' (H213496-06)

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	12/07/2021	ND	1.83	91.4	2.00	7.22	
Toluene*	<0.050	0.050	12/07/2021	ND	1.75	87.7	2.00	6.55	
Ethylbenzene*	<0.050	0.050	12/07/2021	ND	1.72	86.0	2.00	6.52	
Total Xylenes*	<0.150	0.150	12/07/2021	ND	5.29	88.2	6.00	6.23	
Total BTEX	<0.300	0.300	12/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	12/08/2021	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	12/07/2021	ND	192	95.9	200	7.90	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	206	103	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 77.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.0 % 38.9-142

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/03/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	NEDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP 4 @ SURFACE (H213496-07)

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	12/08/2021	ND	1.83	91.4	2.00	7.22	
Toluene*	<0.050	0.050	12/08/2021	ND	1.75	87.7	2.00	6.55	
Ethylbenzene*	<0.050	0.050	12/08/2021	ND	1.72	86.0	2.00	6.52	
Total Xylenes*	<0.150	0.150	12/08/2021	ND	5.29	88.2	6.00	6.23	
Total BTEX	<0.300	0.300	12/08/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1740	16.0	12/08/2021	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	12/07/2021	ND	192	95.9	200	7.90	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	206	103	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 66.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 69.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/03/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	NEDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP 4 @ 1' (H213496-08)

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	12/08/2021	ND	1.83	91.4	2.00	7.22	
Toluene*	<0.050	0.050	12/08/2021	ND	1.75	87.7	2.00	6.55	
Ethylbenzene*	<0.050	0.050	12/08/2021	ND	1.72	86.0	2.00	6.52	
Total Xylenes*	<0.150	0.150	12/08/2021	ND	5.29	88.2	6.00	6.23	
Total BTEX	<0.300	0.300	12/08/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	12/08/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	192	95.9	200	7.90	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	206	103	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 76.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/03/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	NEDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: H 1 (H213496-09)

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	12/08/2021	ND	1.83	91.4	2.00	7.22	
Toluene*	<0.050	0.050	12/08/2021	ND	1.75	87.7	2.00	6.55	
Ethylbenzene*	<0.050	0.050	12/08/2021	ND	1.72	86.0	2.00	6.52	
Total Xylenes*	<0.150	0.150	12/08/2021	ND	5.29	88.2	6.00	6.23	
Total BTEX	<0.300	0.300	12/08/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	12/08/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	192	95.9	200	7.90	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	206	103	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 80.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/03/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	NEDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: H 2 (H213496-10)

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	12/08/2021	ND	1.83	91.4	2.00	7.22	
Toluene*	<0.050	0.050	12/08/2021	ND	1.75	87.7	2.00	6.55	
Ethylbenzene*	<0.050	0.050	12/08/2021	ND	1.72	86.0	2.00	6.52	
Total Xylenes*	<0.150	0.150	12/08/2021	ND	5.29	88.2	6.00	6.23	
Total BTEX	<0.300	0.300	12/08/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	12/08/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	192	95.9	200	7.90	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	206	103	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 67.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 70.0 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/03/2021	Sampling Date:	12/03/2021
Reported:	12/08/2021	Sampling Type:	Soil
Project Name:	NEDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: H 3 (H213496-11)

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	12/08/2021	ND	1.83	91.4	2.00	7.22	
Toluene*	<0.050	0.050	12/08/2021	ND	1.75	87.7	2.00	6.55	
Ethylbenzene*	<0.050	0.050	12/08/2021	ND	1.72	86.0	2.00	6.52	
Total Xylenes*	<0.150	0.150	12/08/2021	ND	5.29	88.2	6.00	6.23	
Total BTEX	<0.300	0.300	12/08/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	12/08/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/07/2021	ND	188	94.0	200	14.9	
DRO >C10-C28*	<10.0	10.0	12/07/2021	ND	201	100	200	6.84	
EXT DRO >C28-C36	<10.0	10.0	12/07/2021	ND					

Surrogate: 1-Chlorooctane 64.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 61.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Apex</u> Project Manager: <u>Prue B.</u>		P.O. #: Company: Attn: Address: City: State: <u>NM</u> Zip: <u>88240</u>	
Address: City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>		Project Owner: City: State: Zip:	
Project #: _____ Project Name: _____		Phone #: _____ Fax #: _____	
Project Location: <u>Wedge CTB</u>		Phone #: _____ Fax #: _____	
Sampler Name: <u>See Invesclat</u>		State: _____ Zip: _____	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		DATE	TIME	C1	Ext TPH	BTEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICB / COOL					
<u>11234910</u>																
	SP1 @ Surface	G	1									12-3	11:45	X	X	X
	SP1 @ 1'	G	1									12-3	11:47	X	X	X
	SP2 @ Surface	G	1									12-3	12:00	X	X	X
	SP2 @ 1'	G	1									12-3	12:02	X	X	X
	SP3 @ Surface	G	1									12-3	12:58	X	X	X
	SP3 @ 1'	G	1									12-3	1:00	X	X	X
	SP4 @ Surface	G	1									12-3	1:20	X	X	X
	SP4 @ 1'	G	1									12-3	1:22	X	X	X

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Relinquished By: _____ Date: <u>12/15</u> Time: <u>10:15</u>	Received By: <u>Scott Spencer</u> Date: _____ 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: <u>see Bruce</u>

Delivered By: (Circle One) UPS - Bus - Other: _____	Observed Temp. °C: <u>5.0</u> Corrected Temp. °C: <u>4.5</u>	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: _____ (Initials)	Turnaround Time: _____ Thermometer ID #113 Correction Factor -0.5°C	Standard <input checked="" type="checkbox"/> Bacteria (only) <input type="checkbox"/> Sample Condition Observed Temp. °C Corrected Temp. °C
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† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

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 67980

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 67980
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	1/13/2022