

**Apache Corporation
NEDU High Pressure Line
NRM2005558733**

Final Remediation Report

Introduction

This report presents the results of remediation activities at the NEDU high Pressure Line. On behalf of Apache Corporation (Apache), Diamondback Disposal Services, Inc (Diamondback) was tasked with the cleanup and remediation of release NRM2005558733. The release occurred in Unit Letter C, Section 2, Township 21S, Range 37E at coordinates 32.51222, 103.13648. The remediation was performed in general accordance with the New Mexico Oil Conservation Division (NMOCD) rules and regulations for releases dated July 24, 2018 and approved NMOCD work plan dated May 15, 2020.

Overview

The spill site is located mostly on state lease land consisting of grass, prairie, or range lands. Approximately 735 bbls of produced water was lost with 650 bbls being recovered, due to a failure in a buried 3” high pressure line.

Regulatory Guidelines

Upon review of the site characteristics, depth to ground water being 51'-100' according to drillers well log, and Table 1 Closure Criteria, The Recommended Remediation Action Levels (RRAL), determined by the latest NMOCD guidelines (19.15.29 NMAC) are as follows: 10,000mg/kg Chloride, 1,000 mg/kg GRO/DRO, 2,500 mg/kg GRO/DRO/MRO, 50 mg/kg BTEX, 10mg/kg Benzene.

Remediation Activities

Between the dates of January 19, 2021 and January 25, 2021, Diamondback excavated approximately 2,280 cubic yards (cy) of impacted material, loaded, and transported to Sundance Services Parabo Facility for disposal. Depth of excavation is approximately 4 feet below ground surface. On January 22, 2021, the site was sampled to determine if RRAL’s had been met. Five point composite samples were collected, every 500 square feet for both wall and floor sections, packaged and delivered to a third-party lab, with chain of custody, for testing as per regulatory standards. (see attached analytical). Upon review of analytical, all floor samples prove to be below Table 1 RRAL’s for site closure. Being that the spill area was excavated to a depth of 4 feet bgs all restoration and reclamation standards have been met. All wall samples were also below Table 1 requirements as well as restoration and reclamation standards. On February 5, 2021 backfilling began and ran thru February 8, 2021. A total of 2,820 cy of clean topsoil, similar to surrounding area, was imported and placed in excavated pasture area. Material was placed in a manner to promote compaction, crowned and sloped to promote storm water runoff and erosion prevention. Excavated pasture area, including unexcavated disturbed areas., will be seeded during the next optimal growing season with State of NM Sandy Seed Mix at a rate of 30 Lbs/ acre.

Conclusions

Upon review all analytical and data provide by the third-party independent lab, it is our belief that all recommended remediation action levels have been met. Diamondback feels the migration of any remaining contaminants through the vadose zone, has been greatly reduced. Therefore, leaving this site in a manner that will pose very little if any future environmental threat.

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SAMPLE ID	SAMPLE DATE	DEPTH (feet bgs)	CHLORIDE mg/Kg	BTEX	TPH
Sec 1 W. Wall H210167--01	1-22-21	1-4	48.8	<0.300	<10
Sec 2 W. Wall H210167-02	1-22-21	1-4	32.0	<0.300	<10
Sec 3 W. Wall H210167-03	1-22-21	1-4	64.0	<0.300	<10
Sec 4 W. Wall H210167-04	1-22-21	1-4	240	<0.300	<10
Sec 5 W. Wall H210167-05	1-22-21	1-4	448	<0.300	<10
Sec 1 B. Floor H210167-06	1-22-21	4	1150	<0.300	<10
Sec 2 B. Floor H210167-07	1-22-21	4	1410	<0.300	<10
Sec 3 B. Floor H210167-08	1-22-21	4	1470	<0.300	<10
Sec 4 B. Floor H210167-09	1-22-21	4	928	<0.300	<10
Sec 5 B. Floor H210167-10	1-22-21	4	288	<0.300	<10
Sec 6 B. Floor H210167-11	1-22-21	4	128	<0.300	<10
Sec 7 B. Floor H210167-12	1-22-21	4	480	<0.300	<10
Sec 8 B. Floor H210167-13	1-22-21	4	464	<0.300	<10
Sec 9 B. Floor H210167-14	1-22-21	4	640	<0.300	<10
Sec 10 B. Floor H210167-15	1-22-21	4	656	<0.300	<10
Sec 11 B. Floor H210167-16	1-22-21	4	1180	<0.300	<10
Sec 12 B. Floor H210167-17	1-22-21	4	1280	<0.300	<10
Sec 13 B. Floor H21016718	1-22-21	4	544	<0.300	<10
Sec 14 B. Floor H210167-19	1-22-21	4	944	<0.300	<10
Sec 15 B. Floor H210167-20	1-22-21	4	1230	<0.300	<10
Sec 16 B. Floor H210167-21	1-22-21	4	1360	<0.300	<10

Sec 17 B. Floor H210167-22	1-22-21	4	928	<0.300	<10
SAMPLE ID	SAMPLE DATE	DEPTH (feet bgs)	CHLORIDE mg/Kg	BTEX	TPH
Sec 18 B. Floor H210167-23	1-22-21	4	416	<0.300	<10
Sec 19 B. Floor H210167-24	1-22-21	4	912	<0.300	<10
Sec 20 B. Floor H210167-25	1-22-21	4	608	<0.300	<10
Sec 21 B. Floor H210167-26	1-22-21	4	1150	<0.300	<10
Sec 22 B. Floor H210167-27	1-22-21	4	1090	<0.300	<10
Sec W. 6 Wall H210127-28	1-22-21	1-4	240	<0.300	<10
Sec W. 7 Wall H210127-29	1-22-21	1-4	144	<0.300	<10
Sec W. 8 Wall H210127-30	1-22-21	1-4	304	<0.300	<10

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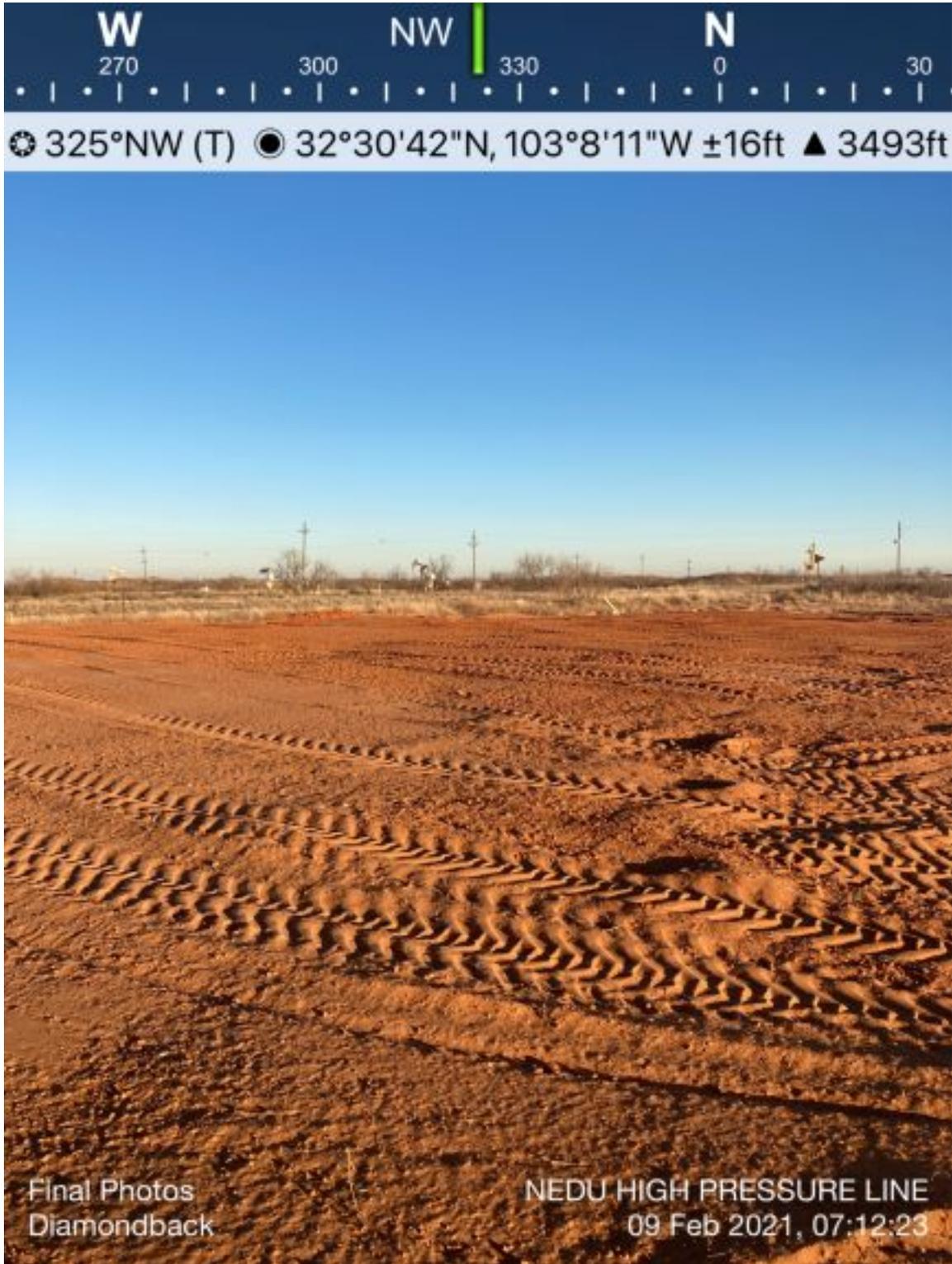


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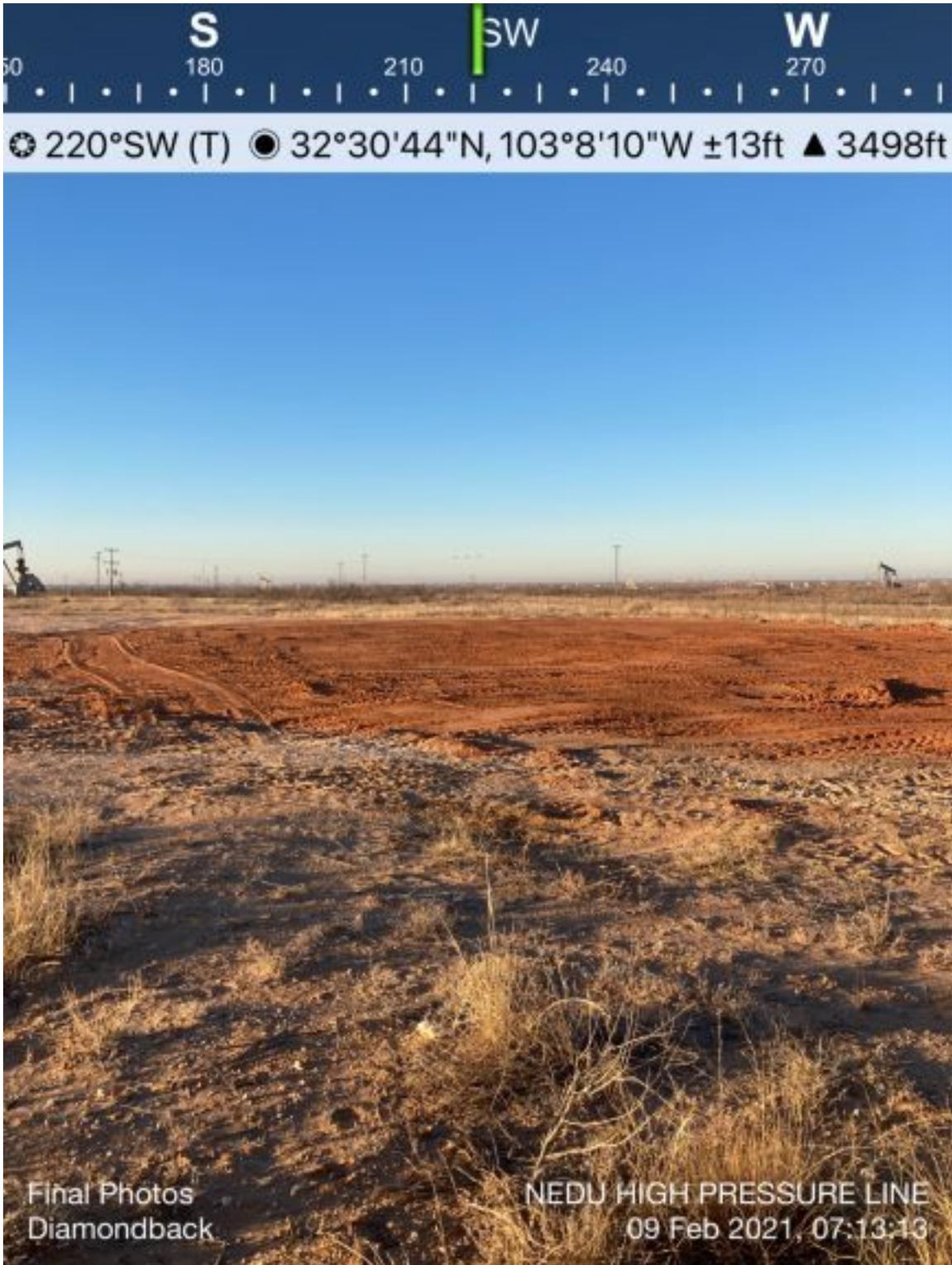




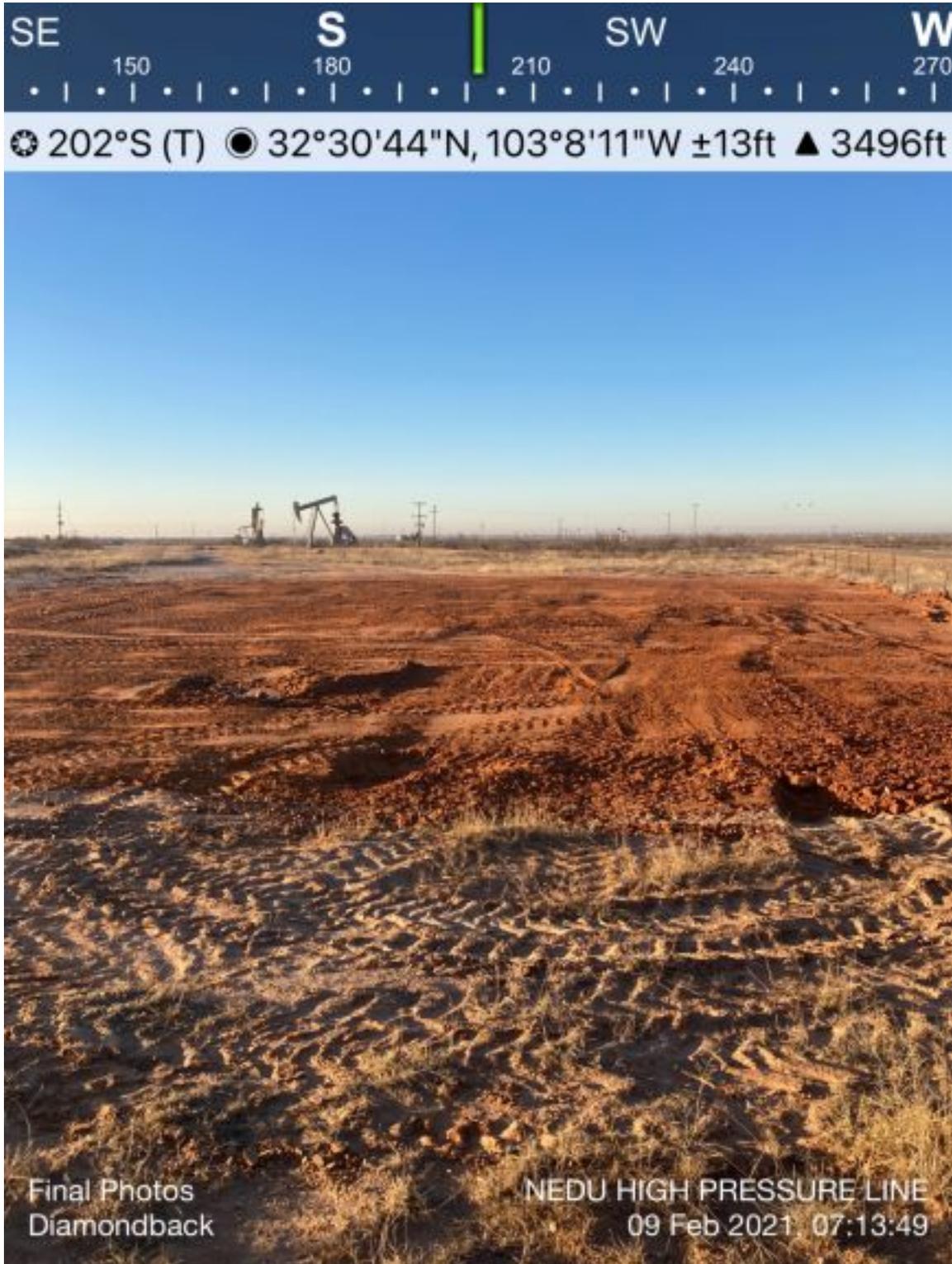
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11			
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Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Larry Baker Title: Environmental Tech SR.
 Signature: Larry Baker Date: 2/11/2021
 email: larry.baker@apachecorp.com Telephone: 432-631-6982

OCD Only

Received by: _____ Date: _____

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

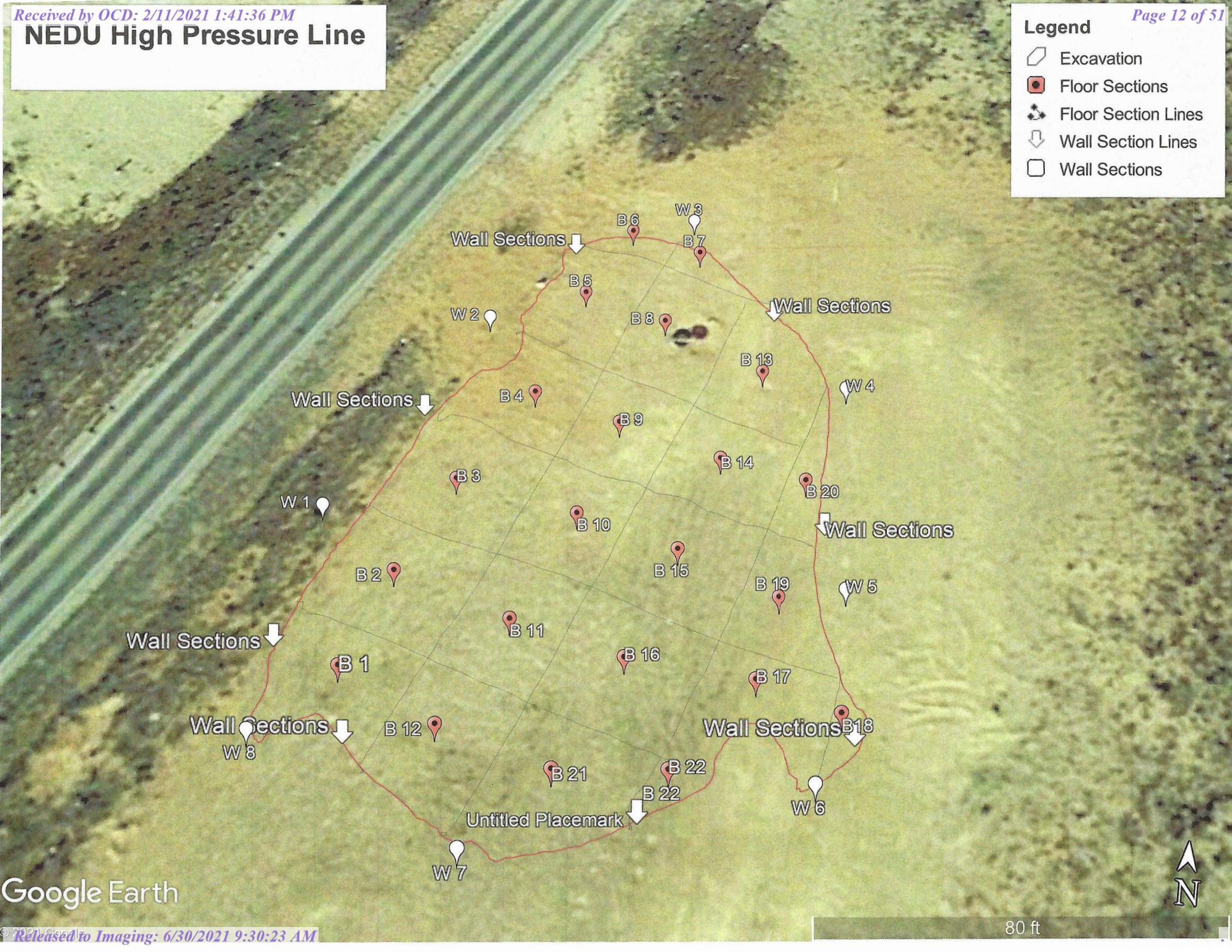
Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

NEDU High Pressure Line

Legend

- Excavation
- Floor Sections
- Floor Section Lines
- Wall Section Lines
- Wall Sections



Larry,

We have received your Workplan/Remediation Proposal for Incident #NRRM2005558733 NEDU High Pressure Line, thank you. This Workplan/Remediation proposal is approved with the following conditions:

- We appreciate the correspondence on the borehole depth down to 60 feet. Please include the drillers log with the Closure Report.
- The variance is approved for collecting a 5-point composite area to represent each 500 square foot area.
- Please make sure the floor samples meet Spill Rule requirements for 51'-100'.

Please let me know if you have any further questions.

Regards,

Robert J Hamlet
State of New Mexico
Energy, Minerals, and Natural Resources
Oil Conservation Division
811 S. First St., Artesia NIM 88210
(575) 748-1283

Robert.Hamlet@state.nm.us



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

January 27, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU HIGH PRESSURE LINE

Enclosed are the results of analyses for samples received by the laboratory on 01/22/21 15:26.

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".

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:	01/22/2021	Sampling Date:	01/22/2021
Reported:	01/27/2021	Sampling Type:	Soil
Project Name:	NEDU HIGH PRESSURE LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: W 1 (H210167-01)

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	01/25/2021	ND	2.08	104	2.00	5.17	
Toluene*	<0.050	0.050	01/25/2021	ND	2.02	101	2.00	5.89	
Ethylbenzene*	<0.050	0.050	01/25/2021	ND	1.98	98.9	2.00	5.55	
Total Xylenes*	<0.150	0.150	01/25/2021	ND	5.77	96.2	6.00	5.52	
Total BTEX	<0.300	0.300	01/25/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/25/2021	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	01/25/2021	ND	218	109	200	3.94	
DRO >C10-C28*	<10.0	10.0	01/25/2021	ND	214	107	200	0.789	
EXT DRO >C28-C36	<10.0	10.0	01/25/2021	ND					

Surrogate: 1-Chlorooctane 76.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.4 % 42.2-156

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/22/2021	Sampling Date:	01/22/2021
Reported:	01/27/2021	Sampling Type:	Soil
Project Name:	NEDU HIGH PRESSURE LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: W 2 (H210167-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/25/2021	ND	2.08	104	2.00	5.17	
Toluene*	<0.050	0.050	01/25/2021	ND	2.02	101	2.00	5.89	
Ethylbenzene*	<0.050	0.050	01/25/2021	ND	1.98	98.9	2.00	5.55	
Total Xylenes*	<0.150	0.150	01/25/2021	ND	5.77	96.2	6.00	5.52	
Total BTEX	<0.300	0.300	01/25/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/25/2021	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	01/25/2021	ND	218	109	200	3.94	
DRO >C10-C28*	<10.0	10.0	01/25/2021	ND	214	107	200	0.789	
EXT DRO >C28-C36	<10.0	10.0	01/25/2021	ND					

Surrogate: 1-Chlorooctane 85.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 89.0 % 42.2-156

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/22/2021	Sampling Date:	01/22/2021
Reported:	01/27/2021	Sampling Type:	Soil
Project Name:	NEDU HIGH PRESSURE LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: W 3 (H210167-03)

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	01/25/2021	ND	2.08	104	2.00	5.17	
Toluene*	<0.050	0.050	01/25/2021	ND	2.02	101	2.00	5.89	
Ethylbenzene*	<0.050	0.050	01/25/2021	ND	1.98	98.9	2.00	5.55	
Total Xylenes*	<0.150	0.150	01/25/2021	ND	5.77	96.2	6.00	5.52	
Total BTEX	<0.300	0.300	01/25/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/25/2021	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	01/25/2021	ND	218	109	200	3.94	
DRO >C10-C28*	<10.0	10.0	01/25/2021	ND	214	107	200	0.789	
EXT DRO >C28-C36	<10.0	10.0	01/25/2021	ND					

Surrogate: 1-Chlorooctane 93.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.6 % 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:	01/22/2021	Sampling Date:	01/22/2021
Reported:	01/27/2021	Sampling Type:	Soil
Project Name:	NEDU HIGH PRESSURE LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: W 4 (H210167-04)

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	01/25/2021	ND	2.08	104	2.00	5.17	
Toluene*	<0.050	0.050	01/25/2021	ND	2.02	101	2.00	5.89	
Ethylbenzene*	<0.050	0.050	01/25/2021	ND	1.98	98.9	2.00	5.55	
Total Xylenes*	<0.150	0.150	01/25/2021	ND	5.77	96.2	6.00	5.52	
Total BTEX	<0.300	0.300	01/25/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/25/2021	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	01/25/2021	ND	218	109	200	3.94	
DRO >C10-C28*	<10.0	10.0	01/25/2021	ND	214	107	200	0.789	
EXT DRO >C28-C36	<10.0	10.0	01/25/2021	ND					

Surrogate: 1-Chlorooctane 93.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.9 % 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:	01/22/2021	Sampling Date:	01/22/2021
Reported:	01/27/2021	Sampling Type:	Soil
Project Name:	NEDU HIGH PRESSURE LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: W 5 (H210167-05)

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	01/25/2021	ND	2.08	104	2.00	5.17	
Toluene*	<0.050	0.050	01/25/2021	ND	2.02	101	2.00	5.89	
Ethylbenzene*	<0.050	0.050	01/25/2021	ND	1.98	98.9	2.00	5.55	
Total Xylenes*	<0.150	0.150	01/25/2021	ND	5.77	96.2	6.00	5.52	
Total BTEX	<0.300	0.300	01/25/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	01/25/2021	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	01/25/2021	ND	218	109	200	3.94	
DRO >C10-C28*	<10.0	10.0	01/25/2021	ND	214	107	200	0.789	
EXT DRO >C28-C36	<10.0	10.0	01/25/2021	ND					

Surrogate: 1-Chlorooctane 95.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 100 % 42.2-156

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/22/2021	Sampling Date:	01/22/2021
Reported:	01/27/2021	Sampling Type:	Soil
Project Name:	NEDU HIGH PRESSURE LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B 1 (H210167-06)

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	01/25/2021	ND	2.08	104	2.00	5.17	
Toluene*	<0.050	0.050	01/25/2021	ND	2.02	101	2.00	5.89	
Ethylbenzene*	<0.050	0.050	01/25/2021	ND	1.98	98.9	2.00	5.55	
Total Xylenes*	<0.150	0.150	01/25/2021	ND	5.77	96.2	6.00	5.52	
Total BTEX	<0.300	0.300	01/25/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	01/25/2021	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	01/25/2021	ND	218	109	200	3.94	
DRO >C10-C28*	<10.0	10.0	01/25/2021	ND	214	107	200	0.789	
EXT DRO >C28-C36	<10.0	10.0	01/25/2021	ND					

Surrogate: 1-Chlorooctane 85.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.5 % 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:	01/22/2021	Sampling Date:	01/22/2021
Reported:	01/27/2021	Sampling Type:	Soil
Project Name:	NEDU HIGH PRESSURE LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B 2 (H210167-07)

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	01/25/2021	ND	2.08	104	2.00	5.17	
Toluene*	<0.050	0.050	01/25/2021	ND	2.02	101	2.00	5.89	
Ethylbenzene*	<0.050	0.050	01/25/2021	ND	1.98	98.9	2.00	5.55	
Total Xylenes*	<0.150	0.150	01/25/2021	ND	5.77	96.2	6.00	5.52	
Total BTEX	<0.300	0.300	01/25/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	01/25/2021	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	01/25/2021	ND	218	109	200	3.94	
DRO >C10-C28*	<10.0	10.0	01/25/2021	ND	214	107	200	0.789	
EXT DRO >C28-C36	<10.0	10.0	01/25/2021	ND					

Surrogate: 1-Chlorooctane 93.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.2 % 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:	01/22/2021	Sampling Date:	01/22/2021
Reported:	01/27/2021	Sampling Type:	Soil
Project Name:	NEDU HIGH PRESSURE LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B 3 (H210167-08)

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	01/25/2021	ND	2.08	104	2.00	5.17	
Toluene*	<0.050	0.050	01/25/2021	ND	2.02	101	2.00	5.89	
Ethylbenzene*	<0.050	0.050	01/25/2021	ND	1.98	98.9	2.00	5.55	
Total Xylenes*	<0.150	0.150	01/25/2021	ND	5.77	96.2	6.00	5.52	
Total BTEX	<0.300	0.300	01/25/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1470	16.0	01/25/2021	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	01/25/2021	ND	218	109	200	3.94	
DRO >C10-C28*	<10.0	10.0	01/25/2021	ND	214	107	200	0.789	
EXT DRO >C28-C36	<10.0	10.0	01/25/2021	ND					

Surrogate: 1-Chlorooctane 98.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 101 % 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:	01/22/2021	Sampling Date:	01/22/2021
Reported:	01/27/2021	Sampling Type:	Soil
Project Name:	NEDU HIGH PRESSURE LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B 4 (H210167-09)

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	01/25/2021	ND	2.08	104	2.00	5.17	
Toluene*	<0.050	0.050	01/25/2021	ND	2.02	101	2.00	5.89	
Ethylbenzene*	<0.050	0.050	01/25/2021	ND	1.98	98.9	2.00	5.55	
Total Xylenes*	<0.150	0.150	01/25/2021	ND	5.77	96.2	6.00	5.52	
Total BTEX	<0.300	0.300	01/25/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	01/25/2021	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	01/25/2021	ND	218	109	200	3.94	
DRO >C10-C28*	<10.0	10.0	01/25/2021	ND	214	107	200	0.789	
EXT DRO >C28-C36	<10.0	10.0	01/25/2021	ND					

Surrogate: 1-Chlorooctane 94.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 95.9 % 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:	01/22/2021	Sampling Date:	01/22/2021
Reported:	01/27/2021	Sampling Type:	Soil
Project Name:	NEDU HIGH PRESSURE LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B 5 (H210167-10)

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	01/25/2021	ND	2.08	104	2.00	5.17	
Toluene*	<0.050	0.050	01/25/2021	ND	2.02	101	2.00	5.89	
Ethylbenzene*	<0.050	0.050	01/25/2021	ND	1.98	98.9	2.00	5.55	
Total Xylenes*	<0.150	0.150	01/25/2021	ND	5.77	96.2	6.00	5.52	
Total BTEX	<0.300	0.300	01/25/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	01/25/2021	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	01/25/2021	ND	218	109	200	3.94	
DRO >C10-C28*	<10.0	10.0	01/25/2021	ND	214	107	200	0.789	
EXT DRO >C28-C36	<10.0	10.0	01/25/2021	ND					

Surrogate: 1-Chlorooctane 75.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.3 % 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:	01/22/2021	Sampling Date:	01/22/2021
Reported:	01/27/2021	Sampling Type:	Soil
Project Name:	NEDU HIGH PRESSURE LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B 6 (H210167-11)

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	01/25/2021	ND	2.08	104	2.00	5.17	
Toluene*	<0.050	0.050	01/25/2021	ND	2.02	101	2.00	5.89	
Ethylbenzene*	<0.050	0.050	01/25/2021	ND	1.98	98.9	2.00	5.55	
Total Xylenes*	<0.150	0.150	01/25/2021	ND	5.77	96.2	6.00	5.52	
Total BTEX	<0.300	0.300	01/25/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/25/2021	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	01/25/2021	ND	218	109	200	3.94	
DRO >C10-C28*	<10.0	10.0	01/25/2021	ND	214	107	200	0.789	
EXT DRO >C28-C36	<10.0	10.0	01/25/2021	ND					

Surrogate: 1-Chlorooctane 91.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 95.3 % 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:	01/22/2021	Sampling Date:	01/22/2021
Reported:	01/27/2021	Sampling Type:	Soil
Project Name:	NEDU HIGH PRESSURE LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B 7 (H210167-12)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/25/2021	ND	2.08	104	2.00	5.17	
Toluene*	<0.050	0.050	01/25/2021	ND	2.02	101	2.00	5.89	
Ethylbenzene*	<0.050	0.050	01/25/2021	ND	1.98	98.9	2.00	5.55	
Total Xylenes*	<0.150	0.150	01/25/2021	ND	5.77	96.2	6.00	5.52	
Total BTEX	<0.300	0.300	01/25/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	01/25/2021	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	01/25/2021	ND	218	109	200	3.94	
DRO >C10-C28*	<10.0	10.0	01/25/2021	ND	214	107	200	0.789	
EXT DRO >C28-C36	<10.0	10.0	01/25/2021	ND					

Surrogate: 1-Chlorooctane 98.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 100 % 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:	01/22/2021	Sampling Date:	01/22/2021
Reported:	01/27/2021	Sampling Type:	Soil
Project Name:	NEDU HIGH PRESSURE LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B 8 (H210167-13)

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	01/25/2021	ND	2.08	104	2.00	5.17	
Toluene*	<0.050	0.050	01/25/2021	ND	2.02	101	2.00	5.89	
Ethylbenzene*	<0.050	0.050	01/25/2021	ND	1.98	98.9	2.00	5.55	
Total Xylenes*	<0.150	0.150	01/25/2021	ND	5.77	96.2	6.00	5.52	
Total BTEX	<0.300	0.300	01/25/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	01/25/2021	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	01/25/2021	ND	218	109	200	3.94	
DRO >C10-C28*	<10.0	10.0	01/25/2021	ND	214	107	200	0.789	
EXT DRO >C28-C36	<10.0	10.0	01/25/2021	ND					

Surrogate: 1-Chlorooctane 91.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.5 % 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:	01/22/2021	Sampling Date:	01/22/2021
Reported:	01/27/2021	Sampling Type:	Soil
Project Name:	NEDU HIGH PRESSURE LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B 9 (H210167-14)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/25/2021	ND	2.08	104	2.00	5.17	
Toluene*	<0.050	0.050	01/25/2021	ND	2.02	101	2.00	5.89	
Ethylbenzene*	<0.050	0.050	01/25/2021	ND	1.98	98.9	2.00	5.55	
Total Xylenes*	<0.150	0.150	01/25/2021	ND	5.77	96.2	6.00	5.52	
Total BTEX	<0.300	0.300	01/25/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	01/25/2021	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	01/25/2021	ND	218	109	200	3.94	
DRO >C10-C28*	<10.0	10.0	01/25/2021	ND	214	107	200	0.789	
EXT DRO >C28-C36	<10.0	10.0	01/25/2021	ND					

Surrogate: 1-Chlorooctane 94.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.2 % 42.2-156

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/22/2021	Sampling Date:	01/22/2021
Reported:	01/27/2021	Sampling Type:	Soil
Project Name:	NEDU HIGH PRESSURE LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B 10 (H210167-15)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/25/2021	ND	2.08	104	2.00	5.17	
Toluene*	<0.050	0.050	01/25/2021	ND	2.02	101	2.00	5.89	
Ethylbenzene*	<0.050	0.050	01/25/2021	ND	1.98	98.9	2.00	5.55	
Total Xylenes*	<0.150	0.150	01/25/2021	ND	5.77	96.2	6.00	5.52	
Total BTEX	<0.300	0.300	01/25/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	01/25/2021	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	01/25/2021	ND	218	109	200	3.94	
DRO >C10-C28*	<10.0	10.0	01/25/2021	ND	214	107	200	0.789	
EXT DRO >C28-C36	<10.0	10.0	01/25/2021	ND					

Surrogate: 1-Chlorooctane 91.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 94.0 % 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:	01/22/2021	Sampling Date:	01/22/2021
Reported:	01/27/2021	Sampling Type:	Soil
Project Name:	NEDU HIGH PRESSURE LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B 11 (H210167-16)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/25/2021	ND	2.08	104	2.00	5.17	
Toluene*	<0.050	0.050	01/25/2021	ND	2.02	101	2.00	5.89	
Ethylbenzene*	<0.050	0.050	01/25/2021	ND	1.98	98.9	2.00	5.55	
Total Xylenes*	<0.150	0.150	01/25/2021	ND	5.77	96.2	6.00	5.52	
Total BTEX	<0.300	0.300	01/25/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	01/25/2021	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	01/25/2021	ND	218	109	200	3.94	
DRO >C10-C28*	<10.0	10.0	01/25/2021	ND	214	107	200	0.789	
EXT DRO >C28-C36	<10.0	10.0	01/25/2021	ND					

Surrogate: 1-Chlorooctane 92.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.1 % 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:	01/22/2021	Sampling Date:	01/22/2021
Reported:	01/27/2021	Sampling Type:	Soil
Project Name:	NEDU HIGH PRESSURE LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B 12 (H210167-17)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/25/2021	ND	2.08	104	2.00	5.17	
Toluene*	<0.050	0.050	01/25/2021	ND	2.02	101	2.00	5.89	
Ethylbenzene*	<0.050	0.050	01/25/2021	ND	1.98	98.9	2.00	5.55	
Total Xylenes*	<0.150	0.150	01/25/2021	ND	5.77	96.2	6.00	5.52	
Total BTEX	<0.300	0.300	01/25/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	01/25/2021	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	01/25/2021	ND	218	109	200	3.94	
DRO >C10-C28*	<10.0	10.0	01/25/2021	ND	214	107	200	0.789	
EXT DRO >C28-C36	<10.0	10.0	01/25/2021	ND					

Surrogate: 1-Chlorooctane 97.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 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:	01/22/2021	Sampling Date:	01/22/2021
Reported:	01/27/2021	Sampling Type:	Soil
Project Name:	NEDU HIGH PRESSURE LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B 13 (H210167-18)

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	01/25/2021	ND	2.08	104	2.00	5.17	
Toluene*	<0.050	0.050	01/25/2021	ND	2.02	101	2.00	5.89	
Ethylbenzene*	<0.050	0.050	01/25/2021	ND	1.98	98.9	2.00	5.55	
Total Xylenes*	<0.150	0.150	01/25/2021	ND	5.77	96.2	6.00	5.52	
Total BTEX	<0.300	0.300	01/25/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	01/25/2021	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	01/25/2021	ND	218	109	200	3.94	
DRO >C10-C28*	<10.0	10.0	01/25/2021	ND	214	107	200	0.789	
EXT DRO >C28-C36	<10.0	10.0	01/25/2021	ND					

Surrogate: 1-Chlorooctane 95.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 100 % 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:	01/22/2021	Sampling Date:	01/22/2021
Reported:	01/27/2021	Sampling Type:	Soil
Project Name:	NEDU HIGH PRESSURE LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B 14 (H210167-19)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/25/2021	ND	2.08	104	2.00	5.17	
Toluene*	<0.050	0.050	01/25/2021	ND	2.02	101	2.00	5.89	
Ethylbenzene*	<0.050	0.050	01/25/2021	ND	1.98	98.9	2.00	5.55	
Total Xylenes*	<0.150	0.150	01/25/2021	ND	5.77	96.2	6.00	5.52	
Total BTEX	<0.300	0.300	01/25/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	01/25/2021	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	01/25/2021	ND	218	109	200	3.94	
DRO >C10-C28*	<10.0	10.0	01/25/2021	ND	214	107	200	0.789	
EXT DRO >C28-C36	<10.0	10.0	01/25/2021	ND					

Surrogate: 1-Chlorooctane 90.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.9 % 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:	01/22/2021	Sampling Date:	01/22/2021
Reported:	01/27/2021	Sampling Type:	Soil
Project Name:	NEDU HIGH PRESSURE LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B 15 (H210167-20)

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	01/25/2021	ND	2.08	104	2.00	5.17	
Toluene*	<0.050	0.050	01/25/2021	ND	2.02	101	2.00	5.89	
Ethylbenzene*	<0.050	0.050	01/25/2021	ND	1.98	98.9	2.00	5.55	
Total Xylenes*	<0.150	0.150	01/25/2021	ND	5.77	96.2	6.00	5.52	
Total BTEX	<0.300	0.300	01/25/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	01/25/2021	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	01/26/2021	ND	189	94.4	200	10.5	
DRO >C10-C28*	<10.0	10.0	01/26/2021	ND	200	100	200	4.37	
EXT DRO >C28-C36	<10.0	10.0	01/26/2021	ND					

Surrogate: 1-Chlorooctane 97.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 101 % 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:	01/22/2021	Sampling Date:	01/22/2021
Reported:	01/27/2021	Sampling Type:	Soil
Project Name:	NEDU HIGH PRESSURE LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B 16 (H210167-21)

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	01/25/2021	ND	2.18	109	2.00	1.78	
Toluene*	<0.050	0.050	01/25/2021	ND	2.13	106	2.00	1.34	
Ethylbenzene*	<0.050	0.050	01/25/2021	ND	2.07	104	2.00	2.45	
Total Xylenes*	<0.150	0.150	01/25/2021	ND	6.06	101	6.00	2.19	
Total BTEX	<0.300	0.300	01/25/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	01/25/2021	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	01/26/2021	ND	189	94.4	200	10.5	
DRO >C10-C28*	<10.0	10.0	01/26/2021	ND	200	100	200	4.37	
EXT DRO >C28-C36	<10.0	10.0	01/26/2021	ND					

Surrogate: 1-Chlorooctane 86.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.3 % 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:	01/22/2021	Sampling Date:	01/22/2021
Reported:	01/27/2021	Sampling Type:	Soil
Project Name:	NEDU HIGH PRESSURE LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B 17 (H210167-22)

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	01/25/2021	ND	2.18	109	2.00	1.78	
Toluene*	<0.050	0.050	01/25/2021	ND	2.13	106	2.00	1.34	
Ethylbenzene*	<0.050	0.050	01/25/2021	ND	2.07	104	2.00	2.45	
Total Xylenes*	<0.150	0.150	01/25/2021	ND	6.06	101	6.00	2.19	
Total BTEX	<0.300	0.300	01/25/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	01/25/2021	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	01/26/2021	ND	189	94.4	200	10.5	
DRO >C10-C28*	<10.0	10.0	01/26/2021	ND	200	100	200	4.37	
EXT DRO >C28-C36	<10.0	10.0	01/26/2021	ND					

Surrogate: 1-Chlorooctane 92.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.4 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/22/2021	Sampling Date:	01/22/2021
Reported:	01/27/2021	Sampling Type:	Soil
Project Name:	NEDU HIGH PRESSURE LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B 18 (H210167-23)

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	01/25/2021	ND	2.18	109	2.00	1.78	
Toluene*	<0.050	0.050	01/25/2021	ND	2.13	106	2.00	1.34	
Ethylbenzene*	<0.050	0.050	01/25/2021	ND	2.07	104	2.00	2.45	
Total Xylenes*	<0.150	0.150	01/25/2021	ND	6.06	101	6.00	2.19	
Total BTEX	<0.300	0.300	01/25/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	01/25/2021	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	01/26/2021	ND	189	94.4	200	10.5	
DRO >C10-C28*	<10.0	10.0	01/26/2021	ND	200	100	200	4.37	
EXT DRO >C28-C36	<10.0	10.0	01/26/2021	ND					

Surrogate: 1-Chlorooctane 98.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 104 % 42.2-156

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/22/2021	Sampling Date:	01/22/2021
Reported:	01/27/2021	Sampling Type:	Soil
Project Name:	NEDU HIGH PRESSURE LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B 19 (H210167-24)

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	01/25/2021	ND	2.18	109	2.00	1.78	
Toluene*	<0.050	0.050	01/25/2021	ND	2.13	106	2.00	1.34	
Ethylbenzene*	<0.050	0.050	01/25/2021	ND	2.07	104	2.00	2.45	
Total Xylenes*	<0.150	0.150	01/25/2021	ND	6.06	101	6.00	2.19	
Total BTEX	<0.300	0.300	01/25/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	01/25/2021	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	01/26/2021	ND	189	94.4	200	10.5	
DRO >C10-C28*	<10.0	10.0	01/26/2021	ND	200	100	200	4.37	
EXT DRO >C28-C36	<10.0	10.0	01/26/2021	ND					

Surrogate: 1-Chlorooctane 94.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 100 % 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:	01/22/2021	Sampling Date:	01/22/2021
Reported:	01/27/2021	Sampling Type:	Soil
Project Name:	NEDU HIGH PRESSURE LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B 20 (H210167-25)

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	01/25/2021	ND	2.18	109	2.00	1.78	
Toluene*	<0.050	0.050	01/25/2021	ND	2.13	106	2.00	1.34	
Ethylbenzene*	<0.050	0.050	01/25/2021	ND	2.07	104	2.00	2.45	
Total Xylenes*	<0.150	0.150	01/25/2021	ND	6.06	101	6.00	2.19	
Total BTEX	<0.300	0.300	01/25/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	01/25/2021	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	01/26/2021	ND	189	94.4	200	10.5	
DRO >C10-C28*	<10.0	10.0	01/26/2021	ND	200	100	200	4.37	
EXT DRO >C28-C36	<10.0	10.0	01/26/2021	ND					

Surrogate: 1-Chlorooctane 95.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 101 % 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:	01/22/2021	Sampling Date:	01/22/2021
Reported:	01/27/2021	Sampling Type:	Soil
Project Name:	NEDU HIGH PRESSURE LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B 21 (H210167-26)

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	01/25/2021	ND	2.18	109	2.00	1.78	
Toluene*	<0.050	0.050	01/25/2021	ND	2.13	106	2.00	1.34	
Ethylbenzene*	<0.050	0.050	01/25/2021	ND	2.07	104	2.00	2.45	
Total Xylenes*	<0.150	0.150	01/25/2021	ND	6.06	101	6.00	2.19	
Total BTEX	<0.300	0.300	01/25/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	01/25/2021	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	01/26/2021	ND	189	94.4	200	10.5	
DRO >C10-C28*	<10.0	10.0	01/26/2021	ND	200	100	200	4.37	
EXT DRO >C28-C36	<10.0	10.0	01/26/2021	ND					

Surrogate: 1-Chlorooctane 91.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 95.9 % 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:	01/22/2021	Sampling Date:	01/22/2021
Reported:	01/27/2021	Sampling Type:	Soil
Project Name:	NEDU HIGH PRESSURE LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B 22 (H210167-27)

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	01/25/2021	ND	2.18	109	2.00	1.78	
Toluene*	<0.050	0.050	01/25/2021	ND	2.13	106	2.00	1.34	
Ethylbenzene*	<0.050	0.050	01/25/2021	ND	2.07	104	2.00	2.45	
Total Xylenes*	<0.150	0.150	01/25/2021	ND	6.06	101	6.00	2.19	
Total BTEX	<0.300	0.300	01/25/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	01/25/2021	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	01/26/2021	ND	189	94.4	200	10.5	
DRO >C10-C28*	<10.0	10.0	01/26/2021	ND	200	100	200	4.37	
EXT DRO >C28-C36	<10.0	10.0	01/26/2021	ND					

Surrogate: 1-Chlorooctane 93.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.2 % 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:	01/22/2021	Sampling Date:	01/22/2021
Reported:	01/27/2021	Sampling Type:	Soil
Project Name:	NEDU HIGH PRESSURE LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: W 6 (H210167-28)

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	01/25/2021	ND	2.18	109	2.00	1.78	
Toluene*	<0.050	0.050	01/25/2021	ND	2.13	106	2.00	1.34	
Ethylbenzene*	<0.050	0.050	01/25/2021	ND	2.07	104	2.00	2.45	
Total Xylenes*	<0.150	0.150	01/25/2021	ND	6.06	101	6.00	2.19	
Total BTEX	<0.300	0.300	01/25/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/25/2021	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	01/26/2021	ND	189	94.4	200	10.5	
DRO >C10-C28*	<10.0	10.0	01/26/2021	ND	200	100	200	4.37	
EXT DRO >C28-C36	<10.0	10.0	01/26/2021	ND					

Surrogate: 1-Chlorooctane 98.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 105 % 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:	01/22/2021	Sampling Date:	01/22/2021
Reported:	01/27/2021	Sampling Type:	Soil
Project Name:	NEDU HIGH PRESSURE LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: W 7 (H210167-29)

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	01/25/2021	ND	2.18	109	2.00	1.78	
Toluene*	<0.050	0.050	01/25/2021	ND	2.13	106	2.00	1.34	
Ethylbenzene*	<0.050	0.050	01/25/2021	ND	2.07	104	2.00	2.45	
Total Xylenes*	<0.150	0.150	01/25/2021	ND	6.06	101	6.00	2.19	
Total BTEX	<0.300	0.300	01/25/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/25/2021	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	01/26/2021	ND	189	94.4	200	10.5	
DRO >C10-C28*	<10.0	10.0	01/26/2021	ND	200	100	200	4.37	
EXT DRO >C28-C36	<10.0	10.0	01/26/2021	ND					

Surrogate: 1-Chlorooctane 91.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.4 % 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:	01/22/2021	Sampling Date:	01/22/2021
Reported:	01/27/2021	Sampling Type:	Soil
Project Name:	NEDU HIGH PRESSURE LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: W 8 (H210167-30)

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	01/25/2021	ND	2.18	109	2.00	1.78	
Toluene*	<0.050	0.050	01/25/2021	ND	2.13	106	2.00	1.34	
Ethylbenzene*	<0.050	0.050	01/25/2021	ND	2.07	104	2.00	2.45	
Total Xylenes*	<0.150	0.150	01/25/2021	ND	6.06	101	6.00	2.19	
Total BTEX	<0.300	0.300	01/25/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	01/25/2021	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	01/26/2021	ND	189	94.4	200	10.5	
DRO >C10-C28*	<10.0	10.0	01/26/2021	ND	200	100	200	4.37	
EXT DRO >C28-C36	<10.0	10.0	01/26/2021	ND					

Surrogate: 1-Chlorooctane 96.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 100 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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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

BILL TO

ANALYSIS REQUEST

P.O. #:

Company:

Attn:

Address:

City:

State:

Phone #:

Fax #:

Company Name: *Produce*

Project Manager: *Robert Baker*

Address:

City: *Hobbs*

State: *NM* Zip: *88240*

Phone #: _____ Fax #: _____

Project #: _____ Project Owner: _____

Project Name: _____

Project Location: *NEDU High Pressure Line*

Sampler Name: *Joe Casanova Jr.*

FOR LAB USE ONLY

Lab I.D. Sample I.D.

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX						DATE	TIME	CI	EXT TRN	BTEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
<i>H210167</i>	<i>1 W1</i>	<i>1</i>	<i>1</i>						<i>11/22</i>	<i>8:44</i>	<i>1</i>			
	<i>2 W2</i>	<i>1</i>	<i>1</i>							<i>8:46</i>	<i>1</i>			
	<i>3 W3</i>	<i>1</i>	<i>1</i>							<i>8:48</i>	<i>1</i>			
	<i>4 W4</i>	<i>1</i>	<i>1</i>							<i>9:08</i>	<i>1</i>			
	<i>5 W5</i>	<i>1</i>	<i>1</i>							<i>11:08</i>	<i>1</i>			
	<i>6 B1</i>	<i>1</i>	<i>1</i>							<i>11:10</i>	<i>1</i>			
	<i>7 B2</i>	<i>1</i>	<i>1</i>							<i>11:12</i>	<i>1</i>			
	<i>8 B3</i>	<i>1</i>	<i>1</i>							<i>11:14</i>	<i>1</i>			
	<i>9 B4</i>	<i>1</i>	<i>1</i>							<i>11:16</i>	<i>1</i>			
	<i>10 B5</i>	<i>1</i>	<i>1</i>							<i>11:16</i>	<i>1</i>			

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Relinquished By: *Joe Casanova Jr.*

Date: *1/22*

Time: *3:28*

Received By: *Lawrence Clarke*

Date: _____

Time: _____

Phone Result: Yes No

Fax Result: Yes No

REMARKS: *Standard.*

Delivered By: (Circle One)

UPS Bus Other

376 #113

Sample Condition Cool Intact Yes No

CHECKED BY: *V.S.*

Initials

Add'l Phone #:

Add'l Fax #:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Apache</u> Project Manager: <u>Ronnie Baker</u> Address: City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u> Phone #: _____ Fax #: _____ Project #: _____ Project Owner: Project Name: Project Location: Sampler Name: <u>Joe Quisenberry</u> FOR LAB USE ONLY		P.O. #: Company: Attn: Address: City: State: _____ Zip: Phone #: Fax #:				
Lab I.D. <u>HA1D167</u> Sample I.D.		(G)RAB OR (P)OMP # CONTAINERS	MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	PRESERV ACID/BASE: HEAT / COOL OTHER:	DATE TIME	ANALYSIS REQUEST
11	B36	1			11:22	EXT TPA
12	B37	1			11:20	BTEX
13	B38	1			11:22	
14	B39	1			11:24	
15	B16	1			11:26	
16	B11	1			11:28	
17	B12	1			11:30	
18	B13	1			12:58	
19	B14	1			1:00	
20	R15	1			1:02	

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Relinquished By: [Signature] Date: 1/22
 Received By: [Signature] Date: 3:02

Delivered By: (Circle One) UPS
 Sampler - UPS - Bus - Other: 3:20 #113
 Sample Condition: Cool Intact
 CHECKED BY: [Signature]

REMARKS: Standard
 Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Hopcke</u> Project Manager: <u>Shirley Baker</u>		P.O. #: Company:			
Address: City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>		Attn: Address: City: State: Zip:			
Phone #: Project #: Project Owner:		Phone #: Zip:			
Project Name:					
Project Location: <u>Deely High Pressure Line</u>					
Sampler Name: <u>Don Quisenberry Jr.</u>					
FOR LAB USE ONLY					
Lab I.D. <u>H210167</u> Sample I.D.	21 B16 22 B17 23 B18 24 B19 25 B20 26 B21 27 B22 28 W16 29 W17 30 W18	(G)RAB OR (C)OMI # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE: (C) COOL OTHER:	DATE TIME	ANALYSIS REQUEST CI Ext TPH BTEX
	RECEIVED BY: <u>[Signature]</u>		CHECKED BY: <u>[Signature]</u>		
	Date: <u>1/22</u> Time: <u>1:02</u>		Date: <u>1/22</u> Time: <u>1:04</u>		
	Date: <u>3:30</u> Time:		Date:		
	Relinquished By: <u>[Signature]</u>		Received By: <u>[Signature]</u>		
	Delivered By: (Circle One) Sampler - UPS - Bus - Other: <u>3.7°C #113</u>		Sample Condition Cool Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Checked By: (Initials) <u>YS</u>		
	REMARKS: <u>Standard</u>				

Incident ID	NRM2005558733
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Larry Baker Title: Environmental Tech SR.
 Signature: Larry Baker Date: 2/11/2021
 email: larry.baker@apachecorp.com Telephone: 432-631-6982

OCD Only

Received by: Robert Hamlet Date: 6/30/2021

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: Robert Hamlet Date: 6/30/2021
 Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

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 17853

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 17853
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NRM2005558733 NEDU HIGH PRESSURE LINE, thank you. This closure is approved.	6/30/2021