



303 Veterans Airpark Lane Midland, TX 79705

Amended Remediation Plan

September 12, 2023

Re: NEDU Injection Line 303
Case nAPP2307355788

Background:

On 3/8/2023 a release occurred due a 6-inch cemented line corroded. The release (GPS: 32.50402, -103.14070) is located north of Eunice, New Mexico in unit letter M section 2 township 17S range 37E. Depth to groundwater was determined by a measurement obtained in 2021 of a nearby monitor well. The depth of water was gauged at 63.68 feet.

Discrete vertical and horizontal grab samples were collected to delineate the release on 4/24 and 4/25/2023. All samples collected were submitted to a commercial laboratory for analysis for Cl-, TPH, and BTEX. All samples except SP8 were below table one standards for releases 51-100 feet to groundwater. Due to excessive chloride reading in respects to all other samples in the profile SP8 was resampled at the surface and 1 foot. Both samples were submitted to a commercial laboratory for analysis of chloride. The resample results were below table one standards for chloride.

Remediation Plan:

Apache Corporation proposes that the release area in the pasture be excavated in accordance with reclamation standards from 19.15.29 NMAC. Final 5-point bottom and wall composite samples will be collected not exceeding 400 square feet. Final 5-point surface composite samples will be collected on the pad and lease road not to exceed 400 square feet to confirm the entire release area not being reclaimed meet table one standards for releases 51-100 feet to groundwater. 5-point surface horizontal samples will be taken not to exceed 200 square feet to confirm the release on the lease pad and road did not enter the pasture. All samples collected will be submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. All excavated material (6000 yards) will be placed in an RXSOIL above-ground treatment cell adjacent to the contaminated area. Berms are placed around the perimeter of the cell area. A 20-mil reinforced poly liner will be installed on the surface and up the sides of the berms to contain treatment. A proprietary drainage and collection system will be installed prior to filling the cells with contaminated soil. To confirm successful treatment, a grid of confirmation samples will be gathered throughout the treatment profile with one sample representing no more than 100 cubic yards. Once laboratory analysis confirm that table one standards have been achieved and reclamation standards for the top four feet in the pasture the excavation will be backfilled with the treated soil to ground surface and contoured to the surrounding area. The pasture area will be reseed in accordance with the revegetation and noxious weed plan. The remediation will be completed within 90 days of OCD approval of the plan.

Enclosed: C-141, Groundwater Data, Maps, Sample Data, Laboratory Results, Photos, and Revegetation and Noxious Weed Plan.

Submitted by.

Larry Baker

Environmental Technician

larry.baker@apachecorp.com

Office # 432-818-1654

Cell# 432-250-8384

Incident ID	NAPP2307355788
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>63</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

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Incident ID	NAPP2307355788
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. Staff
Signature: Larry Baker Date: 6/8/2023
email: larry.baker@apachecorp.com Telephone: 432-818-1654

OCD Only

Received by: Shelly Wells Date: 9/14/2023

Incident ID	NAPP2307355788
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. Staff
Signature: Larry Baker Date: 9/13/2023
email: larry.baker@apachecorp.com Telephone: 432-818-1654

OCD Only

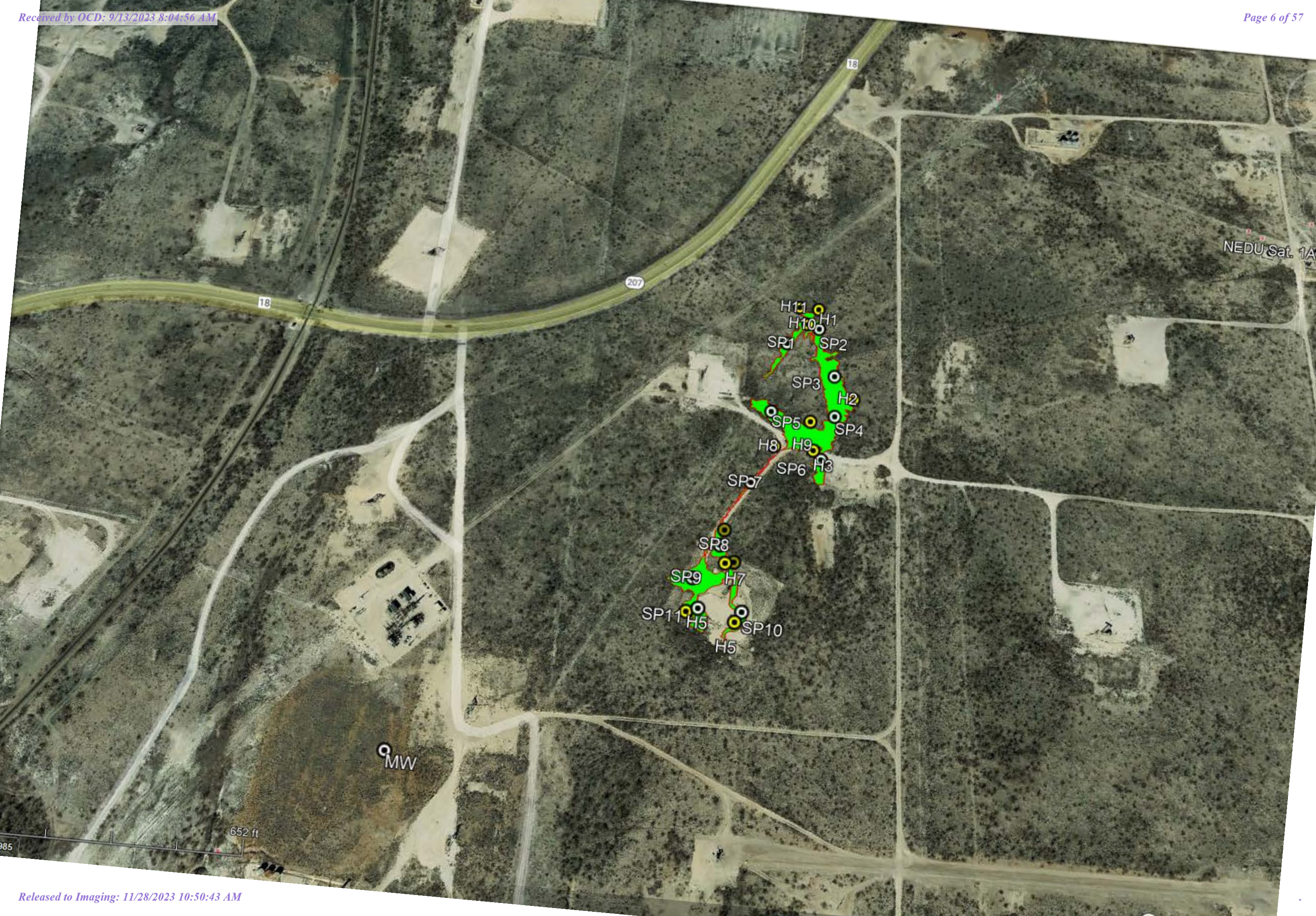
Received by: Shelly Wells Date: 9/14/2023

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Nelson Velez Date: 11/28/2023

Remediation plan is approved with the following conditions;

1. Soil washing method must be sampled by collecting one (1) five (5) point composite not to exceed 100 cubic yards.
2. Remediation Due date updated to February 26, 2024 for submittal of appropriate or final closure report.



December 21, 2021



Apache Corporation
303 Veterans Airpark Lane
Midland, Texas 79705

Attn: Mr. Bruce Baker
P: 432-818-1000
E: larry.baker@apachecorp.com


RE: Release Investigation and Remedial Action Plan
NEDU Injection Line
Unit C, Section 10, Township 21 South, Range 37 East
Lea County, New Mexico

Dear Mr. Baker,

Terracon Consultants, Inc. (Terracon) is pleased to submit our well gauging data for the site referenced above. Based on field observations during the well gauging event on December 14, 2021. The depth of water within the well located at GPS: 32.5002963, -103.1440734, was observed to be 63.68 feet below top of casing.

Terracon appreciates this opportunity to provide environmental services to Apache Corporation (Apache). Should you have any questions or require additional information, please do not hesitate to contact our office.

Sincerely,
Terracon Consultants, Inc.



Joseph Guesnier
Staff Scientist
Lubbock



Erin Loyd, P.G. (TX)
Principal
Office Manager – Lubbock

Coordinates

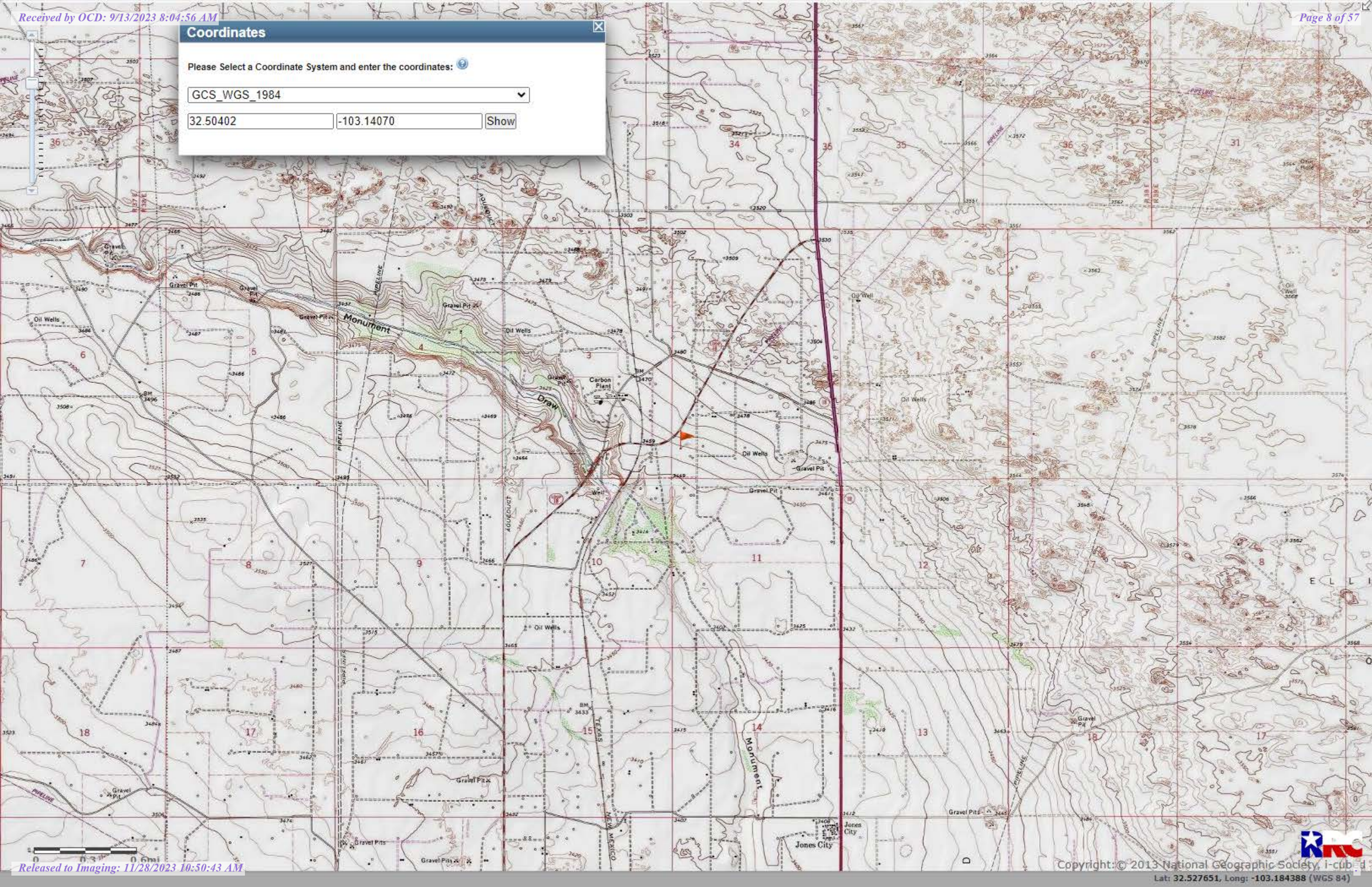
Please Select a Coordinate System and enter the coordinates:

GCS_WGS_1984

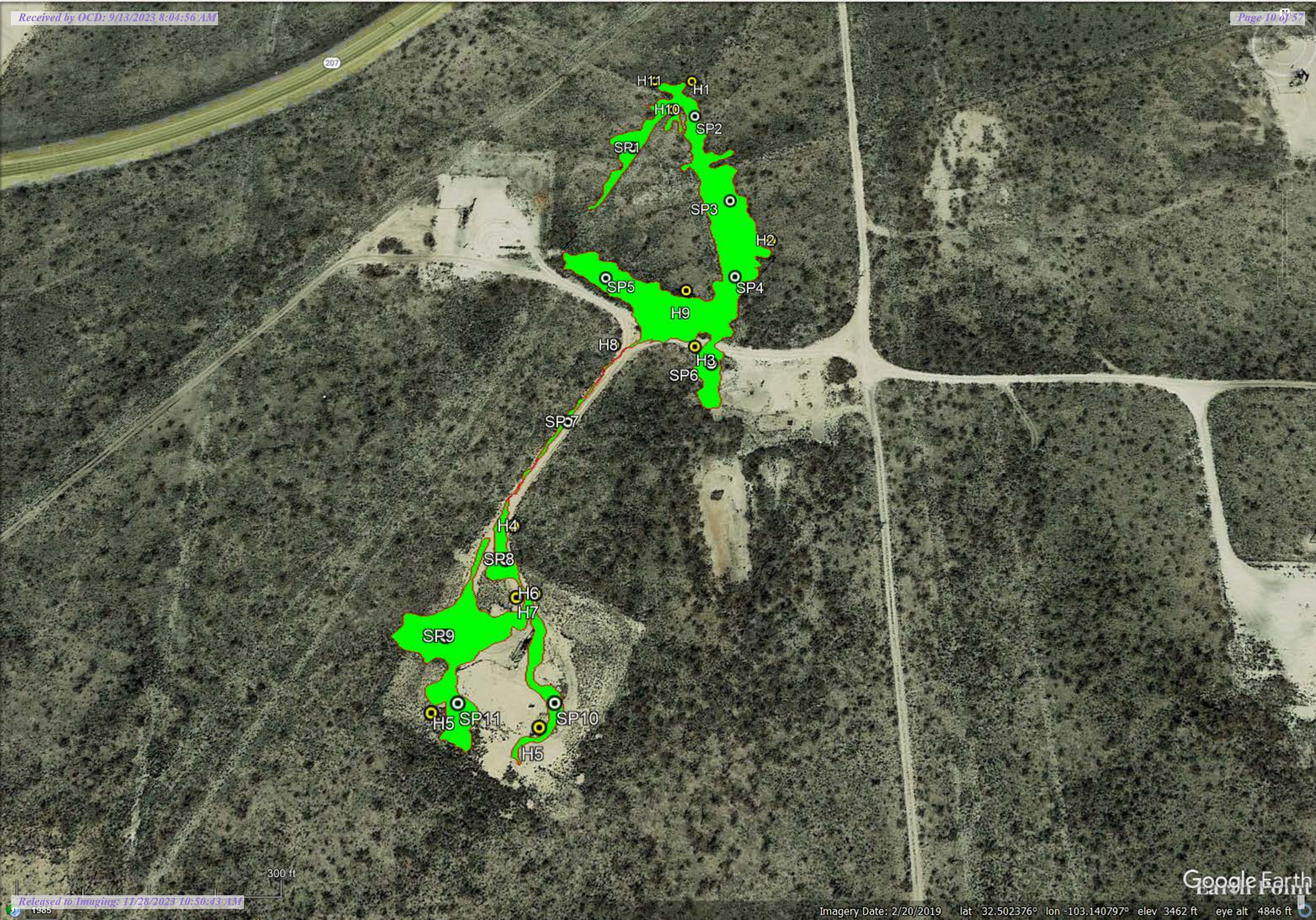
32.50402

-103.14070

Show



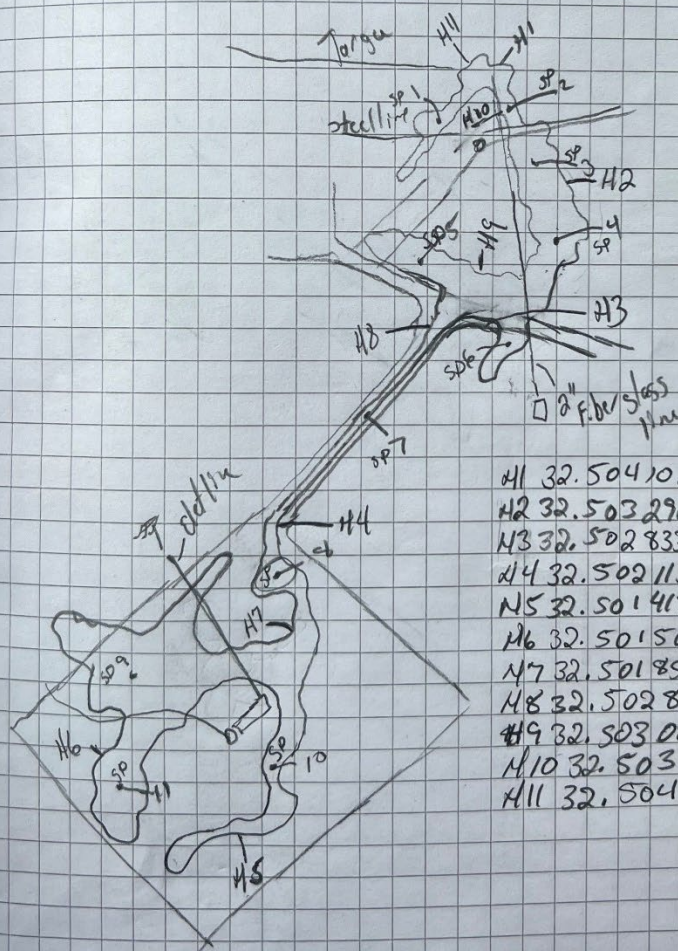
Delineation Samples												
Sample Date	Sample ID	Depth	Chloride Lab	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
4/25/2023	SP1	Surface	272	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5037457, -103.1409346
4/25/2023		2'	336	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
4/25/2023	SP2	Surface	1800	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	107	29	32.5039100, -103.1406050
4/25/2023		2'	816	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
4/25/2023		4'	1220	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
4/25/2023	SP3	Surface	2400	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	81.8	23	32.5034984, -103.1404642
4/25/2023		2'	384	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
4/25/2023		4'	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
4/24/2023	SP4	Surface	4,000	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	21	<10.0	32.5031570, -103.1404508
4/24/2023		2'	928	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
4/24/2023		4'	400	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
4/24/2023	SP5	Surface	5040	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5031146, -103.141087
4/24/2023		2'	1360	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
4/24/2023		4'	1630	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
4/24/2023	SP6	Surface	2880	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	24.1	11.4	32.5027583, -103.1405188
4/24/2023	SP7	Surface	7600	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5024922, -103.1412021
4/24/2023	SP8	Surface	19600	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5019906, -103.1414402
6/7/2023	SP8	Surface	1570									
6/7/2023	SP8	1'	224									
4/24/2023	SP9	Surface	6880	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5017211, -103.1416665
4/24/2023	SP10	Surface	3000	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5014969, -103.1411977
4/24/2023	SP11	Surface	2600	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5015074, -103.1415967
4/25/2023	H1	6"	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5041034, -103.1406509
4/25/2023	H2	6"	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5032905, -103.1402959
4/25/2023	H3	6"	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5028338, -103.1406130
4/25/2023	H4	6"	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5021136, -103.1414167
4/25/2023	H5	6"	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5014180, -103.1412802
4/25/2023	H6	6"	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5015034, -103.1416822
4/25/2023	H7	6"	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5018504, -103.1413915
4/25/2023	H8	6"	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5028352, -103.1409962
4/25/2023	H9	6"	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5030821, -103.1406878
4/25/2023	H10	6"	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5039383, -103.1407324
4/25/2023	H11	6"	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5040932, -103.1406814



Apr 125 2023 NEDU Trunk Line 303

SP1 32.5037457 - 103.1409346
 SP2 32.5039100 - 103.1406050
 SP3 32.5034994 - 103.1404642
 SP4 32.5031570 - 103.1404508
 SP5 32.5031146 - 103.1410807
 SP6 32.5027583 - 103.1405188
 SP7 32.5024922 - 103.1412021
 SP8 32.5019906 - 103.1414402

SP9 32.5017211 - 103.1416665
 SP10 32.5014969 - 103.1411977
 SP11 32.5015674 - 103.1415967



H1 32.5041034 - 103.1406509
 H2 32.5032905 - 103.1462959
 H3 32.5028338 - 103.1406130
 H4 32.5021136 - 103.1414167
 H5 32.5014180 - 103.1412802
 H6 32.5015034 - 103.1416822
 H7 32.5018504 - 103.1413915
 H8 32.5028352 - 103.1409962
 H9 32.5030821 - 103.1466878
 H10 32.5039383 - 103.1467324
 H11 32.5040932 - 103.1406814



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

April 27, 2023

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU TRUNKLINE 303

Enclosed are the results of analyses for samples received by the laboratory on 04/24/23 16:38.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/24/2023
 Reported: 04/27/2023
 Project Name: NEDU TRUNKLINE 303
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 6 SURFACE (H231992-01)

BTX 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	04/26/2023	ND	2.14	107	2.00	4.38	
Toluene*	<0.050	0.050	04/26/2023	ND	2.15	107	2.00	3.88	
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.17	109	2.00	3.28	
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.60	110	6.00	2.15	
Total BTX	<0.300	0.300	04/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2880	16.0	04/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	205	103	200	0.769	
DRO >C10-C28*	24.1	10.0	04/25/2023	ND	200	100	200	0.0889	
EXT DRO >C28-C36	11.4	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 71.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.1 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/24/2023
 Reported: 04/27/2023
 Project Name: NEDU TRUNKLINE 303
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 7 SURFACE (H231992-02)

BTX 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	04/26/2023	ND	2.14	107	2.00	4.38	
Toluene*	<0.050	0.050	04/26/2023	ND	2.15	107	2.00	3.88	
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.17	109	2.00	3.28	
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.60	110	6.00	2.15	
Total BTX	<0.300	0.300	04/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7600	16.0	04/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	205	103	200	0.769	
DRO >C10-C28*	<10.0	10.0	04/25/2023	ND	200	100	200	0.0889	
EXT DRO >C28-C36	<10.0	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 69.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.0 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/24/2023
 Reported: 04/27/2023
 Project Name: NEDU TRUNKLINE 303
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 8 SURFACE (H231992-03)

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	04/26/2023	ND	2.14	107	2.00	4.38	
Toluene*	<0.050	0.050	04/26/2023	ND	2.15	107	2.00	3.88	
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.17	109	2.00	3.28	
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.60	110	6.00	2.15	
Total BTEx	<0.300	0.300	04/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	19600	16.0	04/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/25/2023	ND	205	103	200	0.769	
DRO >C10-C28*	<10.0	10.0	04/25/2023	ND	200	100	200	0.0889	
EXT DRO >C28-C36	<10.0	10.0	04/25/2023	ND					

Surrogate: 1-Chlorooctane 79.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.6 % 49.1-148

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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: 04/24/2023
 Reported: 04/27/2023
 Project Name: NEDU TRUNKLINE 303
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 9 SURFACE (H231992-04)

BTX 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	04/26/2023	ND	2.14	107	2.00	4.38		
Toluene*	<0.050	0.050	04/26/2023	ND	2.15	107	2.00	3.88		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.17	109	2.00	3.28		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.60	110	6.00	2.15		
Total BTX	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6880	16.0	04/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	205	103	200	0.769	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	200	100	200	0.0889	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 79.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.9 % 49.1-148

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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: 04/24/2023
 Reported: 04/27/2023
 Project Name: NEDU TRUNKLINE 303
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 10 SURFACE (H231992-05)

BTX 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	04/26/2023	ND	2.14	107	2.00	4.38		
Toluene*	<0.050	0.050	04/26/2023	ND	2.15	107	2.00	3.88		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.17	109	2.00	3.28		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.60	110	6.00	2.15		
Total BTX	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3000	16.0	04/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	205	103	200	0.769	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	200	100	200	0.0889	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 70.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.8 % 49.1-148

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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: 04/24/2023
 Reported: 04/27/2023
 Project Name: NEDU TRUNKLINE 303
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 11 SURFACE (H231992-06)

BTX 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	04/26/2023	ND	2.14	107	2.00	4.38		
Toluene*	<0.050	0.050	04/26/2023	ND	2.15	107	2.00	3.88		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.17	109	2.00	3.28		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.60	110	6.00	2.15		
Total BTX	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2600	16.0	04/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	205	103	200	0.769	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	200	100	200	0.0889	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 81.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.3 % 49.1-148

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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: 04/24/2023
 Reported: 04/27/2023
 Project Name: NEDU TRUNKLINE 303
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 4 SURFACE (H231992-07)

BTX 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	04/26/2023	ND	2.14	107	2.00	4.38		
Toluene*	<0.050	0.050	04/26/2023	ND	2.15	107	2.00	3.88		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.17	109	2.00	3.28		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.60	110	6.00	2.15		
Total BTX	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4000	16.0	04/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	205	103	200	0.769	
DRO >C10-C28*	20.7	10.0	04/26/2023	ND	200	100	200	0.0889	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 75.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.6 % 49.1-148

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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: 04/24/2023
 Reported: 04/27/2023
 Project Name: NEDU TRUNKLINE 303
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 4 2' (H231992-08)

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	04/26/2023	ND	2.14	107	2.00	4.38		
Toluene*	<0.050	0.050	04/26/2023	ND	2.15	107	2.00	3.88		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.17	109	2.00	3.28		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.60	110	6.00	2.15		
Total BTEX	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	928	16.0	04/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	205	103	200	0.769	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	200	100	200	0.0889	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 75.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.4 % 49.1-148

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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: 04/24/2023
 Reported: 04/27/2023
 Project Name: NEDU TRUNKLINE 303
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 4 4' (H231992-09)

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	04/26/2023	ND	2.14	107	2.00	4.38	
Toluene*	<0.050	0.050	04/26/2023	ND	2.15	107	2.00	3.88	
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.17	109	2.00	3.28	
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.60	110	6.00	2.15	
Total BTEX	<0.300	0.300	04/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	04/26/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	205	103	200	0.769	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	200	100	200	0.0889	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 75.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.1 % 49.1-148

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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: 04/24/2023
 Reported: 04/27/2023
 Project Name: NEDU TRUNKLINE 303
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 5 SURFACE (H231992-10)

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	04/26/2023	ND	2.02	101	2.00	0.0950	
Toluene*	<0.050	0.050	04/26/2023	ND	2.04	102	2.00	0.0897	
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.08	104	2.00	0.255	
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.36	106	6.00	0.479	
Total BTEx	<0.300	0.300	04/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5040	16.0	04/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	205	103	200	0.769	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	200	100	200	0.0889	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 80.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.5 % 49.1-148

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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: 04/24/2023
 Reported: 04/27/2023
 Project Name: NEDU TRUNKLINE 303
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 5 2' (H231992-11)

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	04/26/2023	ND	2.02	101	2.00	0.0950	
Toluene*	<0.050	0.050	04/26/2023	ND	2.04	102	2.00	0.0897	
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.08	104	2.00	0.255	
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.36	106	6.00	0.479	
Total BTEX	<0.300	0.300	04/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1360	16.0	04/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	205	103	200	0.769	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	200	100	200	0.0889	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

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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: 04/24/2023
 Reported: 04/27/2023
 Project Name: NEDU TRUNKLINE 303
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/24/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 5 4' (H231992-12)

BTX 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	04/26/2023	ND	2.02	101	2.00	0.0950		
Toluene*	<0.050	0.050	04/26/2023	ND	2.04	102	2.00	0.0897		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.08	104	2.00	0.255		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.36	106	6.00	0.479		
Total BTX	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1630	16.0	04/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	205	103	200	0.769	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	200	100	200	0.0889	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 81.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

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>Apache</u>		BILL TO		ANALYSIS REQUEST																					
Project Manager: <u>B. Baker</u>		P.O. #:																							
Address:		Company:																							
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>		Attn:																							
Phone #: Fax #:		Address:																							
Project #: Project Owner:		City:																							
Project Name:		State: Zip:																							
Project Location: <u>NEDU Trunk Line 303</u>		Phone #:																							
Sampler Name: <u>Jose Quezada</u>		Fax #:																							
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																	
Lab I.D.	Sample I.D.	(G/RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME											
<u>H231992</u>																									
1	SP6 Surface	G	1										4/24	2:24	C1	BTX	TPH								
2	SP7 Surface	G	1											2:26											
3	SP8 Surface	G	1											2:28											
4	SP9 Surface	G	1											2:30											
5	SP10 Surface	G	1											2:32											
6	SP11 Surface	G	1											2:34											
7	SP4 Surface	G	1											3:48											
8	SP4 2'	G	1											3:50											
9	SP4 4'	G	1											3:52											
10	SP5 Surface	G	1											3:54											

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Relinquished By: <u>Jose Quezada</u>	Date: <u>4/24/23</u>	Received By: <u>Jamora Aldabey</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Time: <u>4:30 pm</u>			All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS: <u>E-Mail Results</u>
Time:			
Delivered By: (Circle One)	Observed Temp. °C <u>3.2</u>	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush
Sampler - UPS - Bus - Other:	Corrected Temp. °C <u>2.6</u>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
			<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C
		CHECKED BY: (Initials) <u>Jo</u>	Thermometer ID #113 Correction Factor -0.6°C

FORM-006 R 3.3 07/16/22

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Apache</u>				BILL TO				ANALYSIS REQUEST																		
Project Manager: <u>B. Baker</u>				P.O. #:																						
Address:				Company:																						
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>				Attn:																						
Phone #: Fax #:				Address:																						
Project #: Project Owner:				City:																						
Project Name:				State: Zip:																						
Project Location: <u>NEDU Tank Line 303</u>				Phone #:																						
Sampler Name:				Fax #:																						
FOR LAB USE ONLY				MATRIX				PRESERV.		SAMPLING																
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME												
<u>H231992</u>													<u>4/29</u>	<u>3:54</u>												
<u>11 SPS 2'</u>		<u>6</u>	<u>1</u>			<u>1</u>					<u>1</u>		<u>1</u>	<u>3:58</u>												
<u>12 SPS 4'</u>		<u>6</u>	<u>1</u>			<u>1</u>					<u>1</u>															

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Relinquished By: <u>Sara Keene</u>	Date: <u>4/29/23</u>	Received By: <u>Jamara Sledge</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address:
Time:			REMARKS: <u>2. Mail Results</u>
Delivered By: (Circle One)	Observed Temp. °C <u>3.2</u>	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush
Sampler - UPS - Bus - Other:	Corrected Temp. °C <u>2.6</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
		CHECKED BY: (Initials) <u>YO</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Corrected Temp. °C
			Thermometer ID #113 Correction Factor -0.6°C

FORM-006 R 3.3 07/16/22

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



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

April 28, 2023

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU TRUNKLINE 303

Enclosed are the results of analyses for samples received by the laboratory on 04/25/23 15:21.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/25/2023	Sampling Date:	04/25/2023
Reported:	04/28/2023	Sampling Type:	Soil
Project Name:	NEDU TRUNKLINE 303	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 SURFACE (H232017-01)

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	04/26/2023	ND	1.94	97.1	2.00	2.57	
Toluene*	<0.050	0.050	04/26/2023	ND	1.99	99.3	2.00	2.03	
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.5	2.00	2.38	
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.08	101	6.00	1.44	
Total BTEX	<0.300	0.300	04/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	04/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	192	96.0	200	3.24	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	189	94.7	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.9 % 49.1-148

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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: 04/25/2023
 Reported: 04/28/2023
 Project Name: NEDU TRUNKLINE 303
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 2' (H232017-02)

BTX 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	04/26/2023	ND	1.94	97.1	2.00	2.57		
Toluene*	<0.050	0.050	04/26/2023	ND	1.99	99.3	2.00	2.03		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.5	2.00	2.38		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.08	101	6.00	1.44		
Total BTX	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	04/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	192	96.0	200	3.24	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	189	94.7	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

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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: 04/25/2023
 Reported: 04/28/2023
 Project Name: NEDU TRUNKLINE 303
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 SURFACE (H232017-03)

BTX 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	04/26/2023	ND	1.94	97.1	2.00	2.57		
Toluene*	<0.050	0.050	04/26/2023	ND	1.99	99.3	2.00	2.03		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.5	2.00	2.38		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.08	101	6.00	1.44		
Total BTX	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1800	16.0	04/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	192	96.0	200	3.24	
DRO >C10-C28*	107	10.0	04/26/2023	ND	189	94.7	200	3.11	
EXT DRO >C28-C36	28.5	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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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: 04/25/2023
 Reported: 04/28/2023
 Project Name: NEDU TRUNKLINE 303
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 2' (H232017-04)

BTX 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	04/26/2023	ND	1.94	97.1	2.00	2.57		
Toluene*	<0.050	0.050	04/26/2023	ND	1.99	99.3	2.00	2.03		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.5	2.00	2.38		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.08	101	6.00	1.44		
Total BTX	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	816	16.0	04/26/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	192	96.0	200	3.24	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	189	94.7	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 83.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 49.1-148

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: 04/25/2023
 Reported: 04/28/2023
 Project Name: NEDU TRUNKLINE 303
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 4' (H232017-05)

BTX 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	04/26/2023	ND	1.94	97.1	2.00	2.57		
Toluene*	<0.050	0.050	04/26/2023	ND	1.99	99.3	2.00	2.03		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.5	2.00	2.38		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.08	101	6.00	1.44		
Total BTX	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1220	16.0	04/26/2023	ND	416	104	400	3.77	QM-07	

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	04/26/2023	ND	192	96.0	200	3.24	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	189	94.7	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.5 % 49.1-148

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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: 04/25/2023
 Reported: 04/28/2023
 Project Name: NEDU TRUNKLINE 303
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 SURFACE (H232017-06)

BTX 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	04/26/2023	ND	1.94	97.1	2.00	2.57		
Toluene*	<0.050	0.050	04/26/2023	ND	1.99	99.3	2.00	2.03		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.5	2.00	2.38		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.08	101	6.00	1.44		
Total BTX	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2400	16.0	04/26/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	192	96.0	200	3.24	
DRO >C10-C28*	81.8	10.0	04/26/2023	ND	189	94.7	200	3.11	
EXT DRO >C28-C36	22.5	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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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: 04/25/2023
 Reported: 04/28/2023
 Project Name: NEDU TRUNKLINE 303
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ 2' (H232017-07)

BTX 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	04/26/2023	ND	1.94	97.1	2.00	2.57		
Toluene*	<0.050	0.050	04/26/2023	ND	1.99	99.3	2.00	2.03		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.5	2.00	2.38		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.08	101	6.00	1.44		
Total BTX	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	04/26/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	192	96.0	200	3.24	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	189	94.7	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 96.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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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: 04/25/2023
 Reported: 04/28/2023
 Project Name: NEDU TRUNKLINE 303
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ 4' (H232017-08)

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	04/26/2023	ND	1.94	97.1	2.00	2.57		
Toluene*	<0.050	0.050	04/26/2023	ND	1.99	99.3	2.00	2.03		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.5	2.00	2.38		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.08	101	6.00	1.44		
Total BTEx	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/26/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	192	96.0	200	3.24	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	189	94.7	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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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: 04/25/2023
 Reported: 04/28/2023
 Project Name: NEDU TRUNKLINE 303
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H 1 (H232017-09)

BTX 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	04/26/2023	ND	1.94	97.1	2.00	2.57	
Toluene*	<0.050	0.050	04/26/2023	ND	1.99	99.3	2.00	2.03	
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.5	2.00	2.38	
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.08	101	6.00	1.44	
Total BTX	<0.300	0.300	04/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/26/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	192	96.0	200	3.24	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	189	94.7	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 49.1-148

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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: 04/25/2023
 Reported: 04/28/2023
 Project Name: NEDU TRUNKLINE 303
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H 2 (H232017-10)

BTX 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	04/26/2023	ND	1.94	97.1	2.00	2.57		
Toluene*	<0.050	0.050	04/26/2023	ND	1.99	99.3	2.00	2.03		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.5	2.00	2.38		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.08	101	6.00	1.44		
Total BTX	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/26/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	192	96.0	200	3.24	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	189	94.7	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.1 % 49.1-148

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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: 04/25/2023
 Reported: 04/28/2023
 Project Name: NEDU TRUNKLINE 303
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H 3 (H232017-11)

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	04/26/2023	ND	1.94	97.1	2.00	2.57		
Toluene*	<0.050	0.050	04/26/2023	ND	1.99	99.3	2.00	2.03		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.5	2.00	2.38		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.08	101	6.00	1.44		
Total BTEx	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/26/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	192	96.0	200	3.24	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	189	94.7	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 79.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.7 % 49.1-148

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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: 04/25/2023
 Reported: 04/28/2023
 Project Name: NEDU TRUNKLINE 303
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H 4 (H232017-12)

BTX 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	04/26/2023	ND	1.94	97.1	2.00	2.57		
Toluene*	<0.050	0.050	04/26/2023	ND	1.99	99.3	2.00	2.03		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.5	2.00	2.38		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.08	101	6.00	1.44		
Total BTX	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/26/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	192	96.0	200	3.24	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	189	94.7	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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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: 04/25/2023
 Reported: 04/28/2023
 Project Name: NEDU TRUNKLINE 303
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H 5 (H232017-13)

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	04/26/2023	ND	1.94	97.1	2.00	2.57	
Toluene*	<0.050	0.050	04/26/2023	ND	1.99	99.3	2.00	2.03	
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.5	2.00	2.38	
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.08	101	6.00	1.44	
Total BTEX	<0.300	0.300	04/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/26/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	192	96.0	200	3.24	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	189	94.7	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 49.1-148

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: 04/25/2023
 Reported: 04/28/2023
 Project Name: NEDU TRUNKLINE 303
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H 6 (H232017-14)

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	04/26/2023	ND	1.94	97.1	2.00	2.57		
Toluene*	<0.050	0.050	04/26/2023	ND	1.99	99.3	2.00	2.03		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.5	2.00	2.38		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.08	101	6.00	1.44		
Total BTEx	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/26/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	192	96.0	200	3.24	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	189	94.7	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.7 % 49.1-148

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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: 04/25/2023
 Reported: 04/28/2023
 Project Name: NEDU TRUNKLINE 303
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H 7 (H232017-15)

BTX 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	04/26/2023	ND	1.94	97.1	2.00	2.57		
Toluene*	<0.050	0.050	04/26/2023	ND	1.99	99.3	2.00	2.03		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.5	2.00	2.38		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.08	101	6.00	1.44		
Total BTX	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/26/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	192	96.0	200	3.24	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	189	94.7	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.3 % 49.1-148

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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: 04/25/2023
 Reported: 04/28/2023
 Project Name: NEDU TRUNKLINE 303
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H 8 (H232017-16)

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	04/26/2023	ND	1.94	97.1	2.00	2.57		
Toluene*	<0.050	0.050	04/26/2023	ND	1.99	99.3	2.00	2.03		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.5	2.00	2.38		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.08	101	6.00	1.44		
Total BTEx	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/26/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	192	96.0	200	3.24	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	189	94.7	200	3.11	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.5 % 49.1-148

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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: 04/25/2023
 Reported: 04/28/2023
 Project Name: NEDU TRUNKLINE 303
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H 9 (H232017-17)

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	04/26/2023	ND	1.94	97.1	2.00	2.57		
Toluene*	<0.050	0.050	04/26/2023	ND	1.99	99.3	2.00	2.03		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	1.99	99.5	2.00	2.38		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.08	101	6.00	1.44		
Total BTEX	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/26/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	187	93.4	200	1.33	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	207	104	200	0.724	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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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: 04/25/2023
 Reported: 04/28/2023
 Project Name: NEDU TRUNKLINE 303
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H 10 (H232017-18)

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	04/26/2023	ND	1.97	98.4	2.00	2.08		
Toluene*	<0.050	0.050	04/26/2023	ND	2.00	100	2.00	0.436		
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.21	111	2.00	0.840		
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.80	113	6.00	1.19		
Total BTEX	<0.300	0.300	04/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/26/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	187	93.4	200	1.33	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	207	104	200	0.724	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 49.1-148

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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: 04/25/2023
 Reported: 04/28/2023
 Project Name: NEDU TRUNKLINE 303
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 04/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H 11 (H232017-19)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2023	ND	1.97	98.4	2.00	2.08	
Toluene*	<0.050	0.050	04/26/2023	ND	2.00	100	2.00	0.436	
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.21	111	2.00	0.840	
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.80	113	6.00	1.19	
Total BTEX	<0.300	0.300	04/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 137 % 71.5-134

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/26/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/26/2023	ND	187	93.4	200	1.33	
DRO >C10-C28*	<10.0	10.0	04/26/2023	ND	207	104	200	0.724	
EXT DRO >C28-C36	<10.0	10.0	04/26/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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

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

Company Name:				BILL TO				ANALYSIS REQUEST																			
Project Manager:				P.O. #:																							
Address:				Company:																							
City:				Attn:																							
Phone #:				Address:																							
Project #:				City:																							
Project Name:				State:				Zip:																			
Project Location:				Phone #:																							
Sampler Name:				Fax #:																							
FOR LAB USE ONLY				MATRIX				PRESERV.				SAMPLING															
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	C1	BTEX	EXT TPH								
H232017																											
1	Sp1 surface	G	1												4/25	10:14	-	-	-								
2	sp1 @ 2'	G	1													10:20	-	-	-								
3	Sp2 surface	G	1													10:22	-	-	-								
4	Sp2 @ 2'	G	1													10:24	-	-	-								
5	SP2 @ 4'	G	1													10:26	-	-	-								
6	Sp3 surface	G	1													10:28	-	-	-								
7	SP3 @ 2'	G	1													10:30	-	-	-								
8	SP3 @ 4'	G	1													10:32	-	-	-								
9	H1	G	1													2:24	-	-	-								
10	H2	G	1													2:26	-	-	-								

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Relinquished By:		Date:	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Jose Quispe		4/25/23	[Signature]	All Results are emailed. Please provide Email address:	
Relinquished By:		Time:	Date:	REMARKS:	
		3:21 pm		E-Mail Results	
Delivered By: (Circle One)		Observed Temp. °C	Sample Condition Cool Intact	Turnaround Time: Standard Rush <input checked="" type="checkbox"/>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Thermometer ID #113 Correction Factor -0.6°C	
		2.9	<input type="checkbox"/> Yes <input type="checkbox"/> No	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C	
		2.3	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C	



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Apache</u>		BILL TO		ANALYSIS REQUEST																				
Project Manager: <u>B. Baker</u>		P.O. #:																						
Address:		Company:																						
City: <u>Hobbs</u>	State: <u>NM</u> Zip: <u>88240</u>	Attn:																						
Phone #:	Fax #:	Address:																						
Project #:	Project Owner:	City:																						
Project Name:		State: Zip:																						
Project Location: <u>NEDG Trunk Line 303</u>		Phone #:																						
Sampler Name: <u>Jose / Querosh</u>		Fax #:																						
FOR LAB USE ONLY																								
Lab I.D.	Sample I.D.	(G) OR (C) OMP.	# CONTAINERS	MATRIX				PRESERV.		SAMPLING														
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME										
<u>H232017</u>		<u>G</u>	<u>1</u>										<u>4/25</u>	<u>2:28</u>	<u>CI</u>	<u>BTEX</u>	<u>ADD PH</u>							
<u>11 H3</u>		<u>G</u>	<u>1</u>											<u>2:30</u>										
<u>12 H4</u>		<u>G</u>	<u>1</u>											<u>2:32</u>										
<u>13 H5</u>		<u>G</u>	<u>1</u>											<u>2:34</u>										
<u>14 H6</u>		<u>G</u>	<u>1</u>											<u>2:36</u>										
<u>15 H7</u>		<u>G</u>	<u>1</u>											<u>2:38</u>										
<u>16 H8</u>		<u>G</u>	<u>1</u>											<u>2:40</u>										
<u>17 H9</u>		<u>G</u>	<u>1</u>											<u>2:42</u>										
<u>18 H10</u>		<u>G</u>	<u>1</u>											<u>2:44</u>										
<u>19 H11</u>		<u>G</u>	<u>1</u>																					

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Relinquished By: <u>Jose Querosh</u>	Date: <u>4/25/23</u>	Received By: <u>Tamara [Signature]</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Time: <u>3:21 pm</u>	Received By:	All Results are emailed. Please provide Email address:
	Date:		REMARKS: <u>E-mail Results</u>
	Time:		
Delivered By: (Circle One)	Observed Temp. °C <u>29</u>	Sample Condition	Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush
Sampler - UPS - Bus - Other:	Corrected Temp. °C <u>23</u>	Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Bacteria (only) Sample Condition Cool Intact Observed Temp. °C
		CHECKED BY: (Initials) <u>JS</u>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C
			Thermometer ID #113 Correction Factor -0.6°C

FORM-006 R 3.3 07/18/22

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



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

June 07, 2023

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU TRUNKLINE 303

Enclosed are the results of analyses for samples received by the laboratory on 06/07/23 9:19.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/07/2023
 Reported: 06/07/2023
 Project Name: NEDU TRUNKLINE 303
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 06/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 8 SURFACE (H232880-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1570	16.0	06/07/2023	ND	416	104	400	7.41		

Sample ID: SP 8 @ 1' (H232880-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	06/07/2023	ND	416	104	400	7.41		

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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Apache</u>				BILL TO				ANALYSIS REQUEST																					
Project Manager: <u>Bruce Baker</u>				P.O. #:																									
Address:				Company:																									
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>				Attn:																									
Phone #:				Address:																									
Project #:				City:																									
Project Owner:				State: Zip:																									
Project Name:				Phone #:																									
Project Location: <u>NEDA Trunk line 303</u>				Fax #:																									
Sampler Name: <u>Jose Quexela</u>																													
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX				PRESERV.		SAMPLING													
										GROUNDWATER																			
										WASTEWATER																			
										SOIL																			
										OIL																			
										SLUDGE																			
										OTHER:																			
										ACID/BASE:																			
										ICE / COOL																			
										OTHER:																			
														DATE		TIME													
														6/7		8:55													
														5		8:57													

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Relinquished By: <u>Jose Quexela</u>		Date: <u>6/7/23</u>		Received By: <u>Amara Aldakhyr</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: <u>9:15 AM</u>		Time:		Time:		All Results are emailed. Please provide Email address:	
Relinquished By:		Date:		Received By:		REMARKS: <u>E-Mail Results</u>	
Time:		Time:		Time:		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
Delivered By: (Circle One)		Observed Temp. °C <u>6.5</u>		Sample Condition <input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact		Bacteria (only) Sample Condition <input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact	
Sampler - UPS - Bus - Other:		Corrected Temp. °C <u>5.9</u>		<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No	
				<input type="checkbox"/> Yes <input type="checkbox"/> No		Observed Temp. °C	
						Corrected Temp. °C	
				CHECKED BY: (Initials) <u>Y.</u>		Thermometer ID #113	
						Correction Factor -0.6°C	

FORM-006 R 5.3 07/16/22

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NEDU Injection Line 303
nAPP2307355788
Revegetation
And
Noxious Weed Plan

Revegetation Plan:

All the disturbed area in the pasture will be properly prepared and reseeded with NMSLO shallow seed mixture. The disturbed area will be monitored to ensure successful revegetation is achieved. If revegetation is not successful after a couple of growing seasons the site will be reseeded.

Noxious Weed Plan:

Apache Corporation will treat noxious weeds if they become established within the area of remediation. Weed control will be maintained on the disturbed land where noxious weeds exist both prior to remediation and restoration. Apache Corporation will consult with the Authorized Officer for acceptable weed control methods.

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 264712

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 264712
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation plan is approved with the following conditions; 1. Soil washing method must be sampled by collecting one (1) five (5) point composite not to exceed 100 cubic yards. 2. Remediation Due date updated to February 26, 2024 for submittal of appropriate or final closure report.	11/28/2023