



303 Veterans Airpark Lane Midland, TX 79705

Remediation Plan

January 26, 2023

Re: NEDU 706
Case nAPP2229848274

Background:

On 10/11/2022 a release occurred due to a stuffing box failed. The release (GPS: 32.4748688, -103.1523438) is located north of Eunice, New Mexico in unit letter N section 15 township 21S range 37E. A groundwater survey was conducted utilizing NMOSE wells of record. The nearest well suggest groundwater beneath the release to be 35 feet.

On 1/10/2023 vertical delineation was conducted utilizing a backhoe to depths of 1 to 3 feet. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. 5-point horizontal surface composite samples were collected not to exceed 200 square feet and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX.

Remediation Plan:

Apache corporation proposes that the release around SP 1, SP 4, and SP 5 be excavated to a depth of 1 foot. SP 2 and SP 3 be excavated to a depth of 3 feet. SP 6 be excavated to a depth of 2 feet. 5-point bottom and wall samples will be collected not to exceed 200 square feet. All excavated material (415 yards) will be hauled to an OCD approved disposal facility. Once laboratory results are below table one standards for releases less than 50 feet to groundwater the excavation will be backfilled with clean imported soil and contoured to the surrounding area. The pasture area disturbed area will be reseeded to surface landowner recommendations. The remediation will be completed within 90 days of OCD approval of the plan.

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

Submitted by.

Larry Baker

Environmental Technician Sr. Staff
larry.baker@apachecorp.com
Cell# 432-250-8384

Incident ID	NAPP2229848274
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>35</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NAPP2229848274
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: 1/26/2023
email: larry.baker@apachecorp.com Telephone: 432-818-1654

OCD Only

Received by: Jocelyn Harimon Date: 01/31/2023

Incident ID	NAPP2229848274
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: 1/26/2023
email: larry.baker@apachecorp.com Telephone: 432-818-1654

OCD Only

Received by: Jocelyn Harimon Date: 01/31/2023

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

Signature: Jennifer Nobui Date: 02/15/2023



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 01575 POD1	1	2	1	22	21S	37E	673544	3594204 <input type="checkbox"/>

Driller License:	1456	Driller Company:	WHITE DRILLING COMPANY
Driller Name:	WHITE, JOHN W		
Drill Start Date:	12/15/2015	Drill Finish Date:	12/16/2015
Log File Date:	12/30/2015	PCW Rev Date:	
Pump Type:		Pipe Discharge Size:	
Casing Size:	2.00	Depth Well:	40 feet
		Depth Water:	35 feet

Water Bearing Stratifications:	Top	Bottom	Description
	23	38	Sandstone/Gravel/Conglomerate
	38	40	Shale/Mudstone/Siltstone

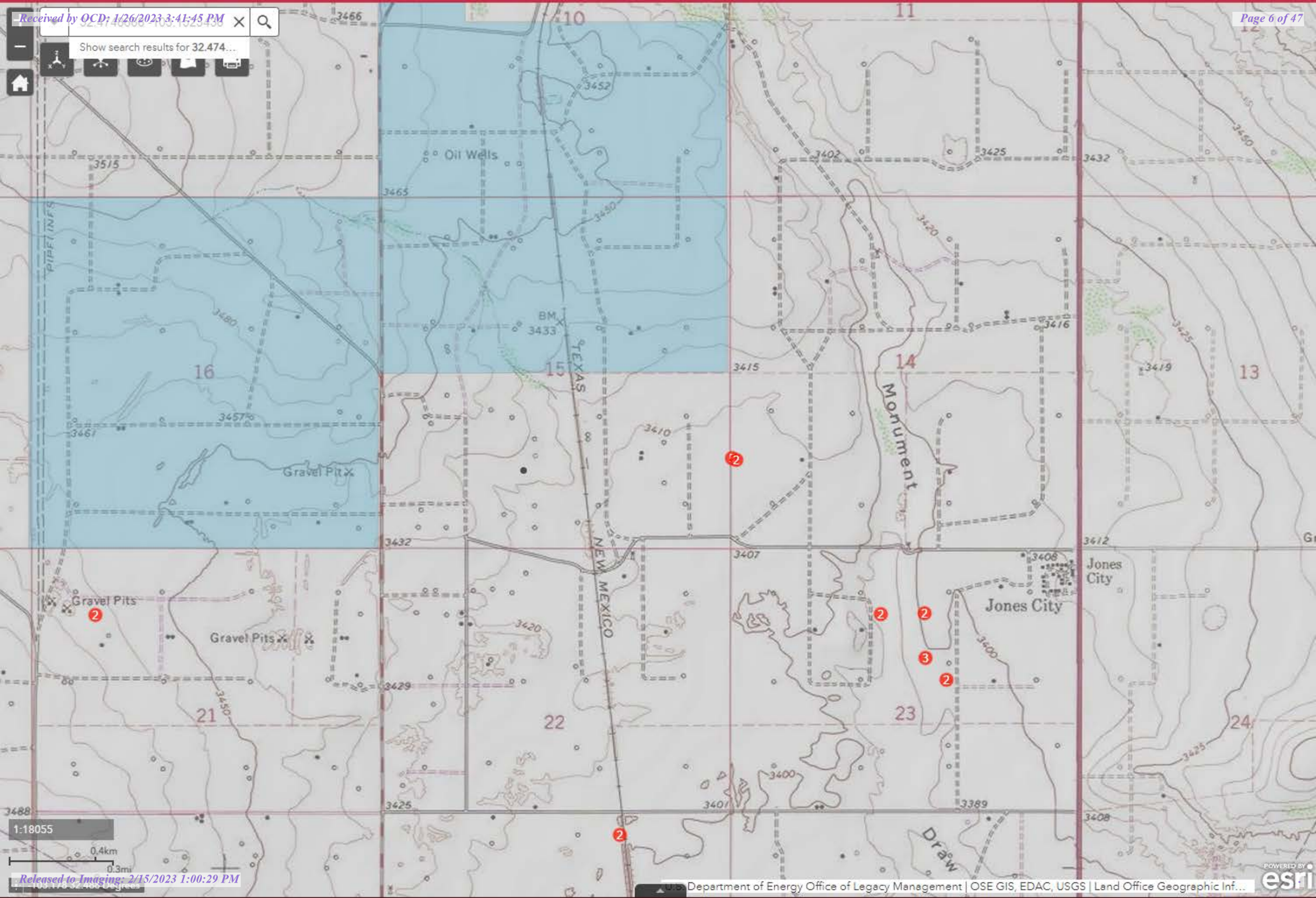
Casing Perforations:	Top	Bottom
	30	40

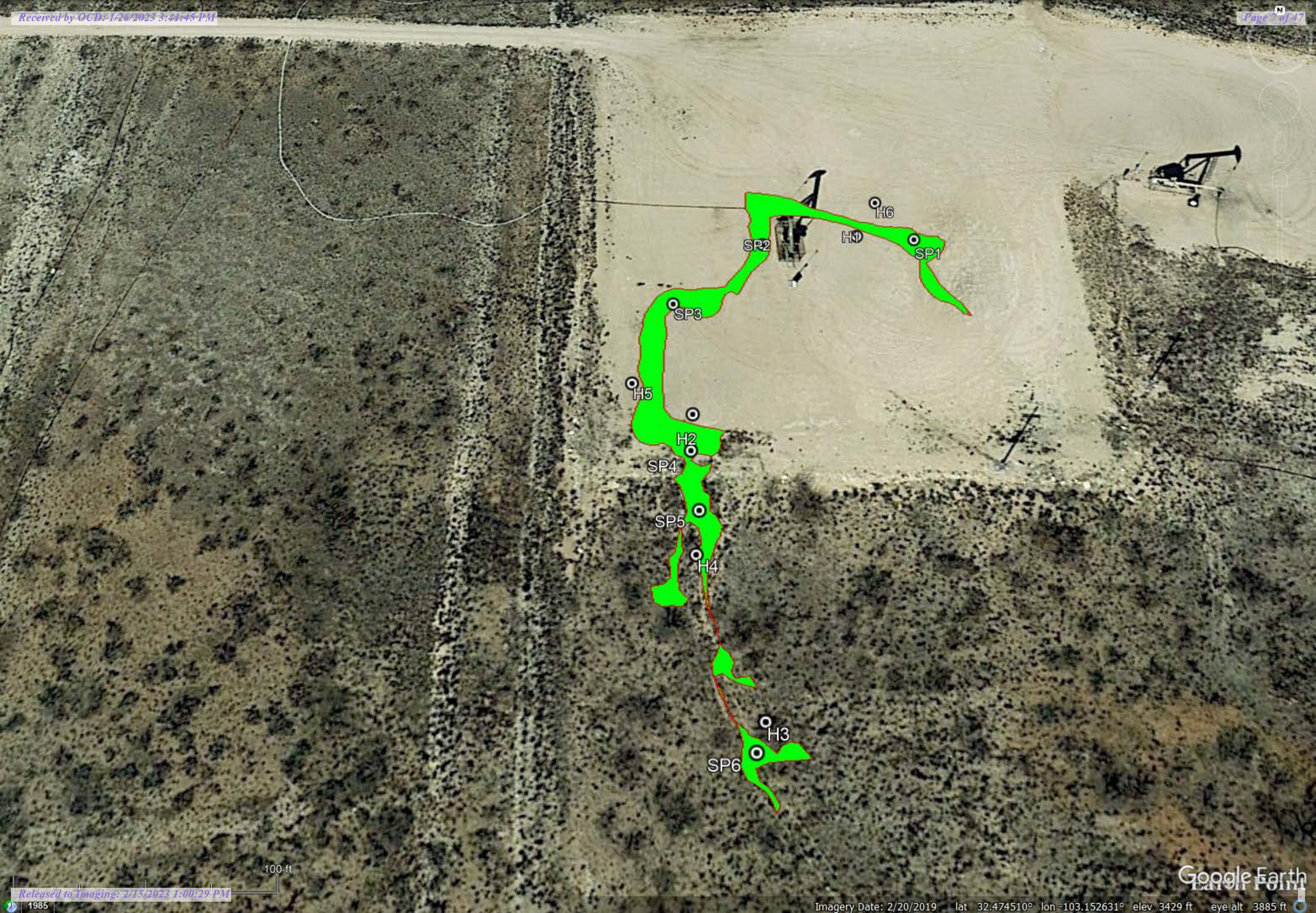
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

1/26/23 3:13 PM

POINT OF DIVERSION SUMMARY

Show search results for 32.474...





100 ft

Delineation Samples

Sample Date	Sample ID	Depth	Chloride Lab	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
1/10/2023	SP1	Surface	2,440	<0.050	<0.050	<0.050	<0.150	<0.300	<50.0	2940	855	32.4748594, -103.1522059
		1'	1,070	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		2'	288	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
1/10/2023	SP2	Surface	2,960	<0.050	<0.050	<0.050	<0.150	<0.300	<50.0	2320	511	32.4748354, -103.1524613
		1'	2,000	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		2'	1,920	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	332	64.4	
1/11/2023		3'	112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
1/10/2023	SP3	Surface	1500	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	3190	943	32.4747313, -103.1525941
		1'	1170	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		2'	832	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	46.5	<10.0	
1/11/2023		3'	512	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
1/10/2023	SP4	Surface	256	<0.050	<0.050	<0.050	<0.150	<0.300	12.8	3070	750	32.4745211, -103.1525827
		1'	448	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
1/10/2023	SP5	Surface	400	<0.050	<0.050	<0.050	<0.150	<0.300	140	13200	2900	32.4744402, -103.1525757
		1'	400	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	32.4	<10.0	
1/10/2023	SP6	Surface	432	<0.050	<0.050	<0.050	<0.150	<0.300	164	14500	3090	32.4741676, -103.1525418
		1'	272	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	127	16.9	
1/19/2023		2'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
1/10/2023	H1	Surface	192	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.4748724, -103.1522530
1/10/2023	H2	Surface	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.4745593, -103.1525790
1/10/2023	H3	Surface	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.4741486, -103.1525120
1/10/2023	H4	Surface	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.4743766, -103.1525834

1/10/2023	H5	Surface	192	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.4746147, -103.1526652
1/10/2023	H6	Surface	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.4748704, -103.1522837



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

January 12, 2023

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU #726

Enclosed are the results of analyses for samples received by the laboratory on 01/10/23 16:40.

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: 01/10/2023
 Reported: 01/12/2023
 Project Name: NEDU #726
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H 1 (H230128-01)

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	01/12/2023	ND	2.07	104	2.00	2.76	
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09	
Total BTX	<0.300	0.300	01/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	192	16.0	01/11/2023	ND	432	108	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	01/11/2023	ND	209	104	200	0.804	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	205	102	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 93.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/10/2023
 Reported: 01/12/2023
 Project Name: NEDU #726
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H 2 (H230128-02)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	2.07	104	2.00	2.76	
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09	
Total BTEX	<0.300	0.300	01/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	160	16.0	01/11/2023	ND	432	108	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	01/11/2023	ND	209	104	200	0.804	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	205	102	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/10/2023
 Reported: 01/12/2023
 Project Name: NEDU #726
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H 3 (H230128-03)

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	01/12/2023	ND	2.07	104	2.00	2.76	
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09	
Total BTEX	<0.300	0.300	01/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	32.0	16.0	01/11/2023	ND	432	108	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	01/11/2023	ND	209	104	200	0.804	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	205	102	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/10/2023
 Reported: 01/12/2023
 Project Name: NEDU #726
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H 4 (H230128-04)

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	01/12/2023	ND	2.07	104	2.00	2.76		
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98		
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69		
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09		
Total BTEX	<0.300	0.300	01/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	64.0	16.0	01/11/2023	ND	432	108	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	01/11/2023	ND	209	104	200	0.804	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	205	102	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 89.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.6 % 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: 01/10/2023
 Reported: 01/12/2023
 Project Name: NEDU #726
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H 5 (H230128-05)

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	01/12/2023	ND	2.07	104	2.00	2.76		
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98		
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69		
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09		
Total BTEX	<0.300	0.300	01/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	192	16.0	01/11/2023	ND	432	108	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	01/11/2023	ND	209	104	200	0.804	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	205	102	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 81.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.8 % 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: 01/10/2023
 Reported: 01/12/2023
 Project Name: NEDU #726
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H 6 (H230128-06)

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	01/12/2023	ND	2.07	104	2.00	2.76		
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98		
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69		
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09		
Total BTEx	<0.300	0.300	01/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	240	16.0	01/11/2023	ND	432	108	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	01/11/2023	ND	209	104	200	0.804	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	205	102	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 92.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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

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

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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

[illegible]



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

January 16, 2023

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU #726

Enclosed are the results of analyses for samples received by the laboratory on 01/10/23 16:40.

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: 01/10/2023
 Reported: 01/16/2023
 Project Name: NEDU #726
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 SURFACE (H230129-01)

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	01/12/2023	ND	2.07	104	2.00	2.76	
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09	
Total BTX	<0.300	0.300	01/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	2440	16.0	01/11/2023	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*	<50.0	50.0	01/11/2023	ND	209	104	200	0.804	
DRO >C10-C28*	2940	50.0	01/11/2023	ND	205	102	200	1.59	
EXT DRO >C28-C36	855	50.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 148 % 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: 01/10/2023
 Reported: 01/16/2023
 Project Name: NEDU #726
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 1' (H230129-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/12/2023	ND	2.07	104	2.00	2.76		
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98		
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69		
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09		
Total BTEX	<0.300	0.300	01/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	1070	16.0	01/11/2023	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	01/11/2023	ND	209	104	200	0.804	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	205	102	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 99.8 % 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: 01/10/2023
 Reported: 01/16/2023
 Project Name: NEDU #726
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 2' (H230129-03)

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	01/12/2023	ND	2.07	104	2.00	2.76		
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98		
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69		
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09		
Total BTEx	<0.300	0.300	01/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	288	16.0	01/11/2023	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	01/11/2023	ND	209	104	200	0.804	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	205	102	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 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: 01/10/2023
 Reported: 01/16/2023
 Project Name: NEDU #726
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 SURFACE (H230129-04)

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	01/12/2023	ND	2.07	104	2.00	2.76		
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98		
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69		
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09		
Total BTEx	<0.300	0.300	01/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	2960	16.0	01/11/2023	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*	<50.0	50.0	01/11/2023	ND	209	104	200	0.804	
DRO >C10-C28*	2320	50.0	01/11/2023	ND	205	102	200	1.59	
EXT DRO >C28-C36	511	50.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 97.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 136 % 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: 01/10/2023
 Reported: 01/16/2023
 Project Name: NEDU #726
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 1' (H230129-05)

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	01/12/2023	ND	2.07	104	2.00	2.76		
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98		
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69		
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09		
Total BTEx	<0.300	0.300	01/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	2000	16.0	01/11/2023	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	01/11/2023	ND	209	104	200	0.804	
DRO >C10-C28*	<10.0	10.0	01/11/2023	ND	205	102	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 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: 01/10/2023
 Reported: 01/16/2023
 Project Name: NEDU #726
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 2' (H230129-06)

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	01/12/2023	ND	2.07	104	2.00	2.76	
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09	
Total BTEX	<0.300	0.300	01/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	1920	16.0	01/11/2023	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	01/12/2023	ND	209	104	200	0.804	
DRO >C10-C28*	332	10.0	01/12/2023	ND	205	102	200	1.59	
EXT DRO >C28-C36	64.4	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 97.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 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: 01/10/2023
 Reported: 01/16/2023
 Project Name: NEDU #726
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 SURFACE (H230129-07)

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	01/12/2023	ND	2.07	104	2.00	2.76		
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98		
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69		
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09		
Total BTEx	<0.300	0.300	01/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 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	1500	16.0	01/11/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2023	ND	209	104	200	0.804	
DRO >C10-C28*	3190	10.0	01/12/2023	ND	205	102	200	1.59	
EXT DRO >C28-C36	943	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 151 % 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: 01/10/2023
 Reported: 01/16/2023
 Project Name: NEDU #726
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 4 SURFACE (H230129-08)

BTX 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	01/12/2023	ND	2.07	104	2.00	2.76	
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09	
Total BTX	<0.300	0.300	01/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 154 % 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	256	16.0	01/11/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	12.8	10.0	01/12/2023	ND	209	104	200	0.804	
DRO >C10-C28*	3070	10.0	01/12/2023	ND	205	102	200	1.59	
EXT DRO >C28-C36	750	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 21.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.8 % 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: 01/10/2023
 Reported: 01/16/2023
 Project Name: NEDU #726
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 5 SURFACE (H230129-09)

BTX 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	01/12/2023	ND	2.07	104	2.00	2.76			
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98			
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69			
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09			
Total BTX	<0.300	0.300	01/12/2023	ND							

Surrogate: 4-Bromofluorobenzene (PID) 187 % 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	01/11/2023	ND	416	104	400	3.77			

TPH 8015M			mg/kg					Analyzed By: MS		S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10*	140	50.0	01/12/2023	ND	209	104	200	0.804			
DRO >C10-C28*	13200	50.0	01/12/2023	ND	205	102	200	1.59			
EXT DRO >C28-C36	2900	50.0	01/12/2023	ND							

Surrogate: 1-Chlorooctane 131 % 48.2-134

Surrogate: 1-Chlorooctadecane 306 % 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: 01/10/2023
 Reported: 01/16/2023
 Project Name: NEDU #726
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 6 SURFACE (H230129-10)

BTX 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	01/12/2023	ND	2.07	104	2.00	2.76	
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09	
Total BTX	<0.300	0.300	01/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 228 % 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	432	16.0	01/11/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	164	50.0	01/12/2023	ND	209	104	200	0.804	
DRO >C10-C28*	14500	50.0	01/12/2023	ND	205	102	200	1.59	
EXT DRO >C28-C36	3090	50.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 324 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 01/10/2023
 Reported: 01/16/2023
 Project Name: NEDU #726
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ 1' (H230129-11)

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	01/12/2023	ND	2.07	104	2.00	2.76	
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09	
Total BTEx	<0.300	0.300	01/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	1170	16.0	01/11/2023	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	01/12/2023	ND	209	104	200	0.804	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	205	102	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 93.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.8 % 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: 01/10/2023
 Reported: 01/16/2023
 Project Name: NEDU #726
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ 2' (H230129-12)

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	01/12/2023	ND	2.07	104	2.00	2.76	
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09	
Total BTX	<0.300	0.300	01/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 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	832	16.0	01/11/2023	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	01/12/2023	ND	209	104	200	0.804	
DRO >C10-C28*	46.5	10.0	01/12/2023	ND	205	102	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 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: 01/10/2023
 Reported: 01/16/2023
 Project Name: NEDU #726
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 4 @ 1' (H230129-13)

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	01/12/2023	ND	2.07	104	2.00	2.76		
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98		
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69		
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09		
Total BTEX	<0.300	0.300	01/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	448	16.0	01/11/2023	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	01/12/2023	ND	209	104	200	0.804	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	205	102	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 86.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.7 % 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: 01/10/2023
 Reported: 01/16/2023
 Project Name: NEDU #726
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 5 @ 1' (H230129-14)

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	01/12/2023	ND	2.07	104	2.00	2.76		
Toluene*	<0.050	0.050	01/12/2023	ND	2.16	108	2.00	2.98		
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.18	109	2.00	3.69		
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.77	113	6.00	4.09		
Total BTEX	<0.300	0.300	01/12/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	400	16.0	01/11/2023	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	01/11/2023	ND	166	82.8	200	12.0	
DRO >C10-C28*	32.4	10.0	01/11/2023	ND	166	82.8	200	16.8	
EXT DRO >C28-C36	<10.0	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.8 % 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: 01/10/2023
 Reported: 01/16/2023
 Project Name: NEDU #726
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/10/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 6 @ 1' (H230129-15)

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	01/11/2023	ND	2.12	106	2.00	2.61		
Toluene*	<0.050	0.050	01/11/2023	ND	2.18	109	2.00	1.37		
Ethylbenzene*	<0.050	0.050	01/11/2023	ND	2.19	109	2.00	1.02		
Total Xylenes*	<0.150	0.150	01/11/2023	ND	6.61	110	6.00	1.43		
Total BTEx	<0.300	0.300	01/11/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	01/11/2023	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	01/11/2023	ND	166	82.8	200	12.0	
DRO >C10-C28*	127	10.0	01/11/2023	ND	166	82.8	200	16.8	
EXT DRO >C28-C36	16.9	10.0	01/11/2023	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 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

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Apache</u>		P.O. #:		BILL TO												ANALYSIS REQUEST																			
Project Manager: <u>Bruce Baker</u>		Company:																																	
Address:		Attn:																																	
City: <u>Hobbs</u>		State: <u>NM</u>		Zip: <u>88240</u>																															
Phone #:		Fax #:		Address:																															
Project #:		City:		State:		Zip:																													
Project Name:		Phone #:		Fax #:																															
Project Location: <u>NEDU 726</u>		Phone #:		Fax #:																															
Sampler Name: <u>Sose Creek</u>		Fax #:																																	
FOR LAB USE ONLY																																			
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		CI		BTEX		EXT TPH	
4230129		SP1 Surface		G 1		1		1		1		1		1		1		1		1		1		1		1/6		7:59		1		1		1	
2		SP1 @ 1'		G 1		1		1		1		1		1		1		1		1		1		1		1/6		9:56		1		1		1	
3		SP1 @ 2'		G 1		1		1		1		1		1		1		1		1		1		1		1/6		5:58		1		1		1	
4		SP2 Surface		G 1		1		1		1		1		1		1		1		1		1		1		1/6		10:43		1		1		1	
5		SP2 @ 1'		G 1		1		1		1		1		1		1		1		1		1		1		1/6		10:45		1		1		1	
6		SP2 @ 2'		G 1		1		1		1		1		1		1		1		1		1		1		1/6		10:47		1		1		1	
7		SP3 Surface		G 1		1		1		1		1		1		1		1		1		1		1		1/6		12:18		1		1		1	
8		SP4 Surface		G 1		1		1		1		1		1		1		1		1		1		1		1/6		12:20		1		1		1	
9		SP5 Surface		G 1		1		1		1		1		1		1		1		1		1		1		1/6		12:22		1		1		1	

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Relinquished By: <u>Sose Creek</u>	Date: <u>1/6/23</u>	Received By: <u>Monika Wladyslaw</u>	Time: <u>4:40pm</u>
Relinquished By:	Date:	Received By:	Time:

Delivered By: (Circle One)	Observed Temp. °C <u>3.3</u>	Sample Condition	CHECKED BY: (Initials) <u>YD</u>
Sampler - UPS - Bus - Other:	Corrected Temp. °C <u>2.7</u>	<input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	

Turnaround Time: 3-5 Business Days

Thermometer ID #113 Q

Correction Factor -0.6°C

Bacteria (only) Sample Condition

☐ Cool ☐ Intact
☐ Yes ☐ No

Observed Temp. °C

Corrected Temp. °C

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

All Results are emailed. Please provide Email address:

REMARKS:

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

January 16, 2023

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU #726

Enclosed are the results of analyses for samples received by the laboratory on 01/11/23 16:25.

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: 01/11/2023
 Reported: 01/16/2023
 Project Name: NEDU #726
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 3' (H230162-01)

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	01/12/2023	ND	2.00	100	2.00	1.76	
Toluene*	<0.050	0.050	01/12/2023	ND	2.17	108	2.00	2.69	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.15	107	2.00	2.59	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.56	109	6.00	2.24	
Total BTX	<0.300	0.300	01/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 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	112	16.0	01/12/2023	ND	432	108	400	3.64		

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	01/12/2023	ND	214	107	200	3.50	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	250	125	200	9.50	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 98.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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: 01/11/2023
 Reported: 01/16/2023
 Project Name: NEDU #726
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/11/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ 3' (H230162-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2023	ND	2.00	100	2.00	1.76	
Toluene*	<0.050	0.050	01/12/2023	ND	2.17	108	2.00	2.69	
Ethylbenzene*	<0.050	0.050	01/12/2023	ND	2.15	107	2.00	2.59	
Total Xylenes*	<0.150	0.150	01/12/2023	ND	6.56	109	6.00	2.24	
Total BTEx	<0.300	0.300	01/12/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 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	512	16.0	01/12/2023	ND	432	108	400	3.64		

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	01/12/2023	ND	214	107	200	3.50	
DRO >C10-C28*	<10.0	10.0	01/12/2023	ND	250	125	200	9.50	
EXT DRO >C28-C36	<10.0	10.0	01/12/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 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

Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

January 24, 2023

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NEDU #726

Enclosed are the results of analyses for samples received by the laboratory on 01/19/23 16:40.

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 style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/19/2023
 Reported: 01/24/2023
 Project Name: NEDU #726
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/19/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 6 @ 2' (H230293-01)

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	01/20/2023	ND	2.25	112	2.00	0.713	
Toluene*	<0.050	0.050	01/20/2023	ND	2.32	116	2.00	0.437	
Ethylbenzene*	<0.050	0.050	01/20/2023	ND	2.25	112	2.00	1.28	
Total Xylenes*	<0.150	0.150	01/20/2023	ND	6.86	114	6.00	2.17	
Total BTEX	<0.300	0.300	01/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

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	01/23/2023	ND	212	106	200	0.887	
DRO >C10-C28*	21.2	10.0	01/23/2023	ND	211	105	200	1.91	
EXT DRO >C28-C36	<10.0	10.0	01/23/2023	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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



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

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

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

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

CONDITIONS

Action 180132

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 180132
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved. Composite confirmation samples will be collected from the bottom and sidewalls of the excavation from areas representing no more than two hundred (200) square feet.	2/15/2023