

June 25, 2021

NMOCD Environmental Bureau 1220 South St. Francis Drive Santa Fe, NM 87505

Re: Remediation Plan

Apache Corporation - EAU Emulsion Line

Incident ID: nAB1606057005

To Whom It May Concern

RXSoil, Inc. is pleased to submit the remediation plan for the on-site remediation of impacted soil for the above release.

Sincerely,

Jace Caraway Chief Operating Officer RXSoil, Inc. (940) 210-2051 Zach Robbins
Technical and Engineering Analyst
RXSoil, Inc.
(210) 400-7645

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I. Introduction

On behalf of Apache Corporation, RXSoil, Inc. ("RXSoil") has prepared this work plan that describes remediation of the release of nAB1606057005.

The release occurred on 2/24/2016 in Unit Letter C, Section 11, Township 18S, Range 27E (see *Figure 1* for Vicinity Map) at approximate coordinates 32.76804, -104.25103.

II. Site Assessment/Characterization

- 1. **Site Map** See *Figure 2*
- 2. **Depth to ground water** Nearest water well (listed in *Appendix A*) has a reported depth to water of 50'. The release is within a high-potential karst area, as identified in the Bureau of Land Management GIS. This remediation will follow guidelines for a release with a depth to groundwater of <50' BGS.
- 3. **Wellhead protection area** There are no known water sources within a half mile of the release.
- 4. **Distance to nearest significant watercourse** The nearest water way is 1,900' away from the release area at its closest point (see *Figure 3*). This is a stream connecting to the Pecos River approximately 27,000' downstream.
- 5. **Soil/waste characteristics** A recent delineation was performed in January of 2020 and a follow-up was performed in April of 2021 to determine extent of the plume. Sample points are shown in *Figure 4* with results summarized in *Appendix B*. Lab data is displayed in *Appendix* C. Further delineation will occur during excavation. Sampling will be conducted to confirm proper excavation and will consist of sampling sidewalls and the bottom of excavation using composites representing <200 square feet. Excavation will continue throughout the spill area to clean material per strictest thresholds given in Table I. Excavation will be guided by field data and confirmed via a third-party laboratory.

III. Remediation Plan

The most recent delineation map can be seen in *Figure 2* with results in *Appendix B*. As stated in **Section II**, further delineation will be conducted throughout excavation.

RXSoil's core process of on-site remediation was used to address the contamination. RXSoil will supervise all excavation with approval from area utilities owners via NM 811.

RXSoil will construct an above-ground treatment cell (see *Figure 2* for projected placement). Berms will be constructed around the perimeter of the cell area. A 20-mil reinforced poly liner will be placed 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. All contaminated soil will be placed in the contained treatment cell for treatment. It is estimated 5,000 cubic yards will require remediation.

Once all contaminated material is in the treatment cell, chemical treatment will begin. To confirm

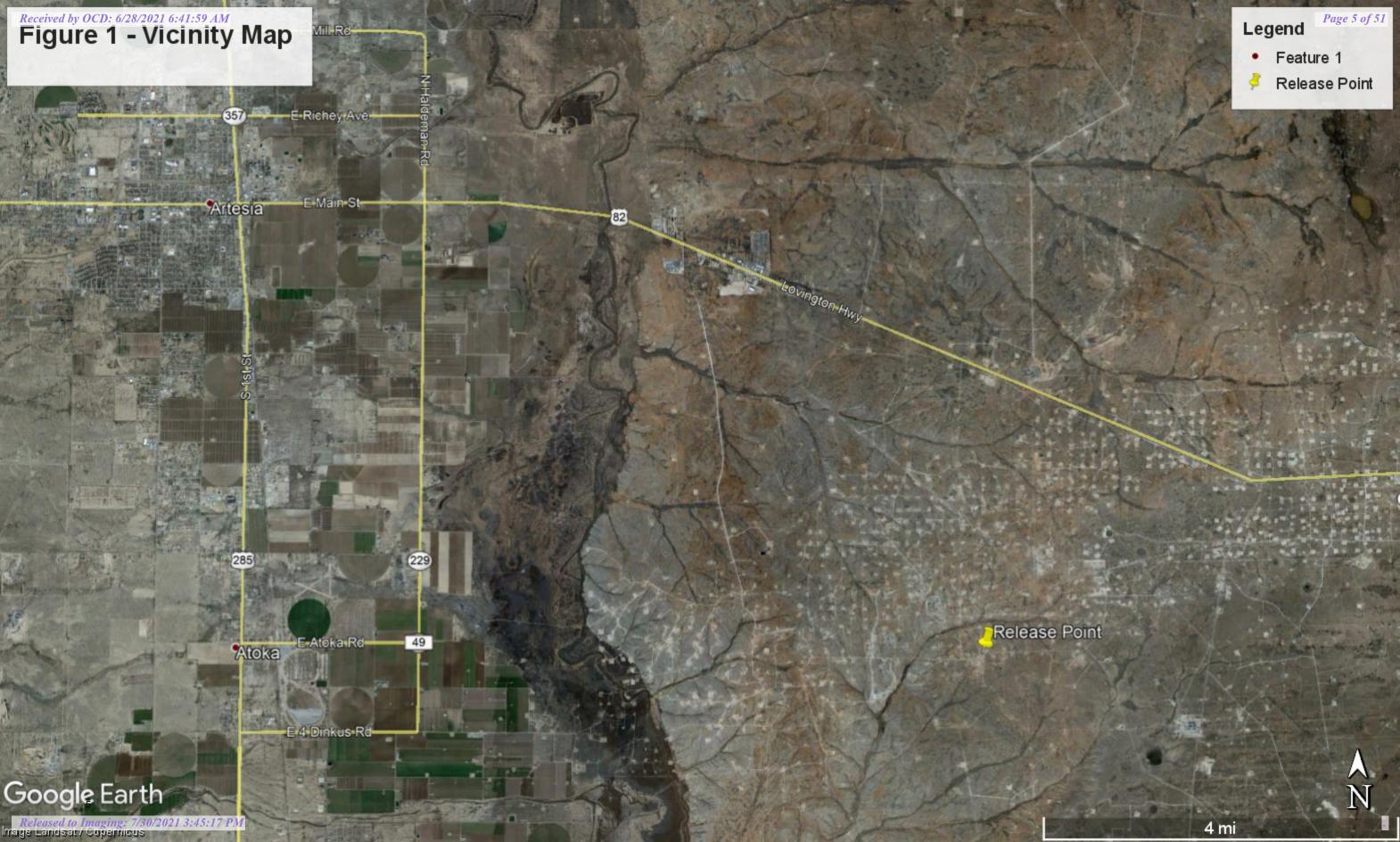
successful treatment, confirmation samples will be gathered from the bottom 12" of the treated soil with one sample representing no more than 100 cubic yards as agreed upon in previous work. If a sample were to test above threshold, treatment would continue in that area until the soil tested clean, per strictest Table I guidelines for impacted soils.

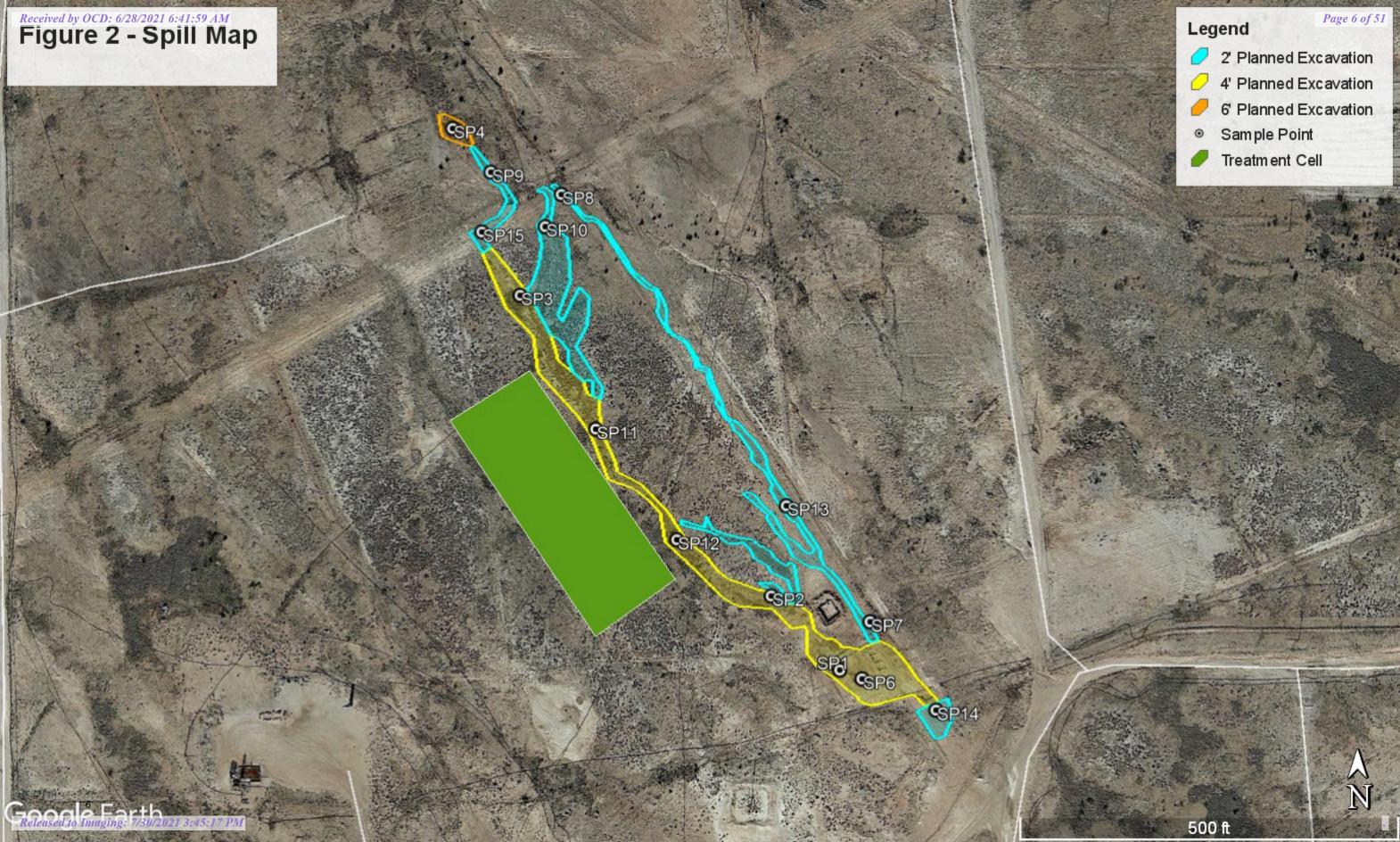
Sidewall and bottom samples will be taken using a stainless-steel hand shovel while remediation samples will be taken using a stainless-steel bucket auger. All tools are to be decontaminated before each sample, as specified in *Field Equipment Cleaning and Decontamination* (EPA, 2015). This includes wiping the equipment clean, water-rinsing the equipment, washing the equipment in detergent and water, and rinsing the equipment in water.

Samples will temporarily be transferred to a new plastic bag in the field. Once in a location safer for handling glass, the samples will be transferred to glass jars, supplied by an approved laboratory. The threads on all jars will be wiped clean to allow an air-tight seal. Samples will be transferred on ice to a third-party laboratory to ensure tests are completed the EPA recommended time period.

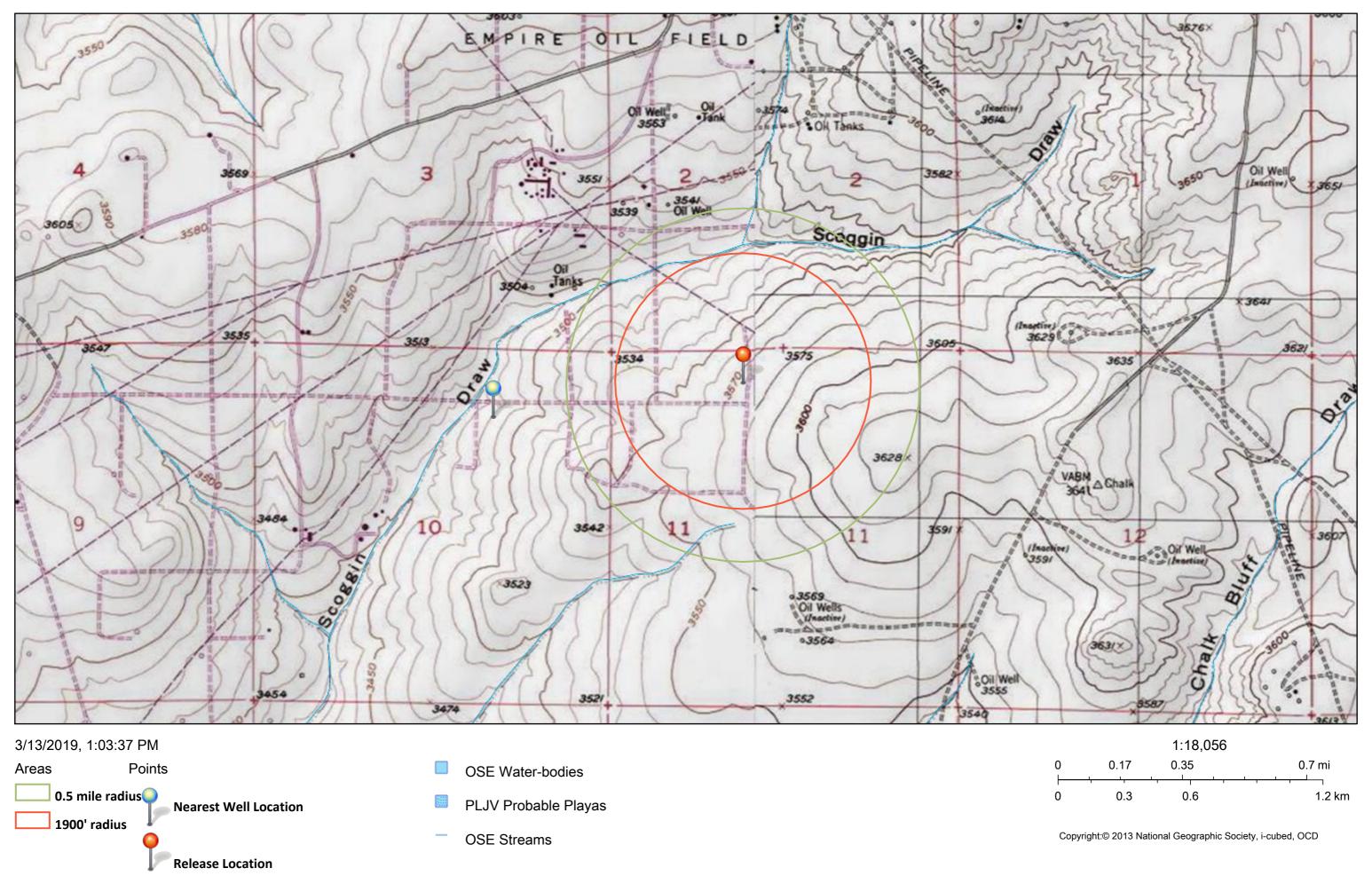
IV. Restoration, Reclamation and Re-Vegetation

Following remediation, RXSoil will drill in seed at the discretion of the appropriate surface owners (BLM and SLO). RXSoil will continue to monitor this area to ensure growth. The remediation is expected to take 30 days.





Hydrology Map



APPENDIX A

C-141

Received by OCD: 6/28/2021 6:41:59 AM Form C-141 State of New Mexico
Page 3 Oil Conservation Division

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Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	50 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ 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)?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ 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?	☐ Yes ☑ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	✓ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No
Did the release impact areas not on an exploration, development, production, or storage site?	✓ Yes ☐ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vercontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	rtical extents of soil
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 well ✓ 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 	ls.
1 — , , , , , , , , , , , , , , , , , ,	

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.

Received by OCD: 6/28/2021 6:41:59 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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	1 1180 10 0 1
Incident ID	nAB1606057005
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.						
Printed Name: Larry Baker	Title: Environmental Tech SR.					
Signature: Larry Baker email: larry.baker@apachecorp.com	Date: 6/25/2021					
email: larry.baker@apachecorp.com	Telephone: 432-631-6982					
OCD Only						
Received by:	Date:					

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Incident ID	nAB1606057005
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must b	e included in the plan.
 ☑ Detailed description of proposed remediation technique ☑ Scaled sitemap with GPS coordinates showing delineation poin ☑ Estimated volume of material to be remediated ☑ Closure criteria is to Table 1 specifications subject to 19.15.29. ☑ Proposed schedule for remediation (note if remediation plan tin 	12(C)(4) NMAC
Deferral Requests Only: Each of the following items must be con	nfirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around p deconstruction.	roduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human healt	h, the environment, or groundwater.
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name: Larry Baker	Title: Environmental Tech SR.
	Date: 6/25/2021
Signature: <u>Larry Baker</u> email: larry.baker@apachecorp.com	Telephone: 432-631-6982
OCD Only	
Received by:	Date:
Approved With Attached Conditions of	Approval Denied Deferral Approved
Signature: Bradford Billings	Date:07/30/2021

APPENDIX B

WATER COLUMN/AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is

closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD

Sub- Q Q Q

Water DistanceDepthWellDepthWater Column

POD Number RA 03917
 Code
 basin
 County
 64 16 4 Sec
 Tws
 Rng

 RA
 LE
 4 1 2 10 18S 27E

X Y 569019 3625660*

1141 130 5

50

Average Depth to Water:

50 feet

Minimum Depth:

50 feet

Maximum Depth:

50 feet

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 570149 N

Northing (Y): 3625820

Radius: 1500

*UTM location was derived from PLSS - see Help

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.

3/13/19 11:42 AM

WATER COLUMN/ AVERAGE DEPTH TO

WATER

APPENDIX C

DELINEATION SUMMARY TABLE

	Apache - EAU Emulsion Line									
Sample	Sample	Sample	Lab ID Sample	Chloride	Benzene	BTEX	TPH			
Name	Depth (ft)	Date	Lab ID Salliple	Chioride	802	8015M				
SP1	Surface	1/13/2020		4880	<0.050	<0.150	587			
	2	1/13/2020		352	<0.050	<0.150	<30.0			
	4	1/13/2020		752	<0.050	<0.150	<30.0			
	6	1/13/2020		352	<0.050	<0.150	<30.0			
SP2	Surface	1/13/2020		4720	<0.050	<0.150	58900			
	2	1/13/2020		896	<0.050	<0.150	845			
	3	1/13/2020		545	-	-				
	4	1/13/2020		884	<0.050	<0.150	289.4			
	5	1/22/2020		ND	<0.050	<0.150	<30.0			
SP3	Surface	1/13/2020		36800	<0.050	<0.150	582			
	2	1/13/2020		3520	<0.050	<0.150	<30.0			
	4	1/14/2020		320	<0.050	<0.150	<30.0			
	5	1/14/2020		400	<0.050	<0.150	<30.0			
SP4	Surface	1/13/2020		14900	<0.050	<0.150	44020			
	2	1/13/2020		160	<0.050	<0.150	5995			
	4	1/13/2020		1040	<0.050	<0.150	105.1			
	5	1/14/2020		1200	<0.050	<0.150	<30.0			
	6	1/22/2020		64	<0.050	<0.150	<30.0			
SP5	Surface	1/13/2020		880	<0.050	<0.150	10580			
	1	1/13/2020		400	<0.050	<0.150	170			
	3	1/22/2020		ND	<0.050	<0.150	<30.0			
SP6	Surface	1/14/2020		5280	<0.050	<0.150	50.2			
	2	1/14/2020		1060	<0.050	<0.150	<30.0			
	4	1/14/2020		464	<0.050	<0.150	<30.0			
SP7	2	4/22/2021		384	-	-	-			
SP8	2	4/22/2021		462	-	-	-			
SP9	2	4/22/2021		1071	-	-	-			
SP9	3	4/26/2021		188	-	-	-			
SP10	2	4/22/2021		635	-	-	-			
SP11	4	4/22/2021		484	-	-	-			
SP12	4	4/22/2021		427	-	-	-			
SP13	2	4/22/2021		271	-	-	-			
SP14	2	4/22/2021		270	-	-	-			
SP15	2	4/22/2021		80	-	-	-			
NMOCD Th	resholds			600	10	50	100			

All data points given in mg/kg unless otherwise stated

Bold results represent over-threshold and must be remediated

[&]quot;ND" represents Non-detectable results

APPENDIX D

LABORATORY REPORTS



January 16, 2020

JEFFREY BROOM

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EMISSION LINE

Enclosed are the results of analyses for samples received by the laboratory on 01/13/20 16:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keene

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,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To: (575) 393-2432

Received: 01/13/2020 Sampling Date: 01/13/2020

Reported: 01/16/2020 Sampling Type: Soil

Project Name: **EMISSION LINE** Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: SP 1 SURFACE 32.7681664-104.2514455 (H000112-01)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2020	ND	2.27	114	2.00	2.72	
Toluene*	<0.050	0.050	01/14/2020	ND	2.29	114	2.00	3.21	
Ethylbenzene*	<0.050	0.050	01/14/2020	ND	2.26	113	2.00	3.07	
Total Xylenes*	<0.150	0.150	01/14/2020	ND	6.71	112	6.00	3.02	
Total BTEX	<0.300	0.300	01/14/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4880	16.0	01/15/2020	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	01/15/2020	ND	207	103	200	4.20	
DRO >C10-C28*	402	10.0	01/15/2020	ND	214	107	200	7.17	
EXT DRO >C28-C36	187	10.0	01/15/2020	ND					
Surrogate: 1-Chlorooctane	91.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	107	% 37.6-14	7						

Surrogate: 1-Chlorooctadecane 107 %

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

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

Received:

01/13/2020 Sampling Date: 01/13/2020

Reported: Sampling Type: Soil 01/16/2020

Project Name: **EMISSION LINE** Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: SP 1 @ 2' (H000112-02)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2020	ND	2.27	114	2.00	2.72	
Toluene*	<0.050	0.050	01/14/2020	ND	2.29	114	2.00	3.21	
Ethylbenzene*	<0.050	0.050	01/14/2020	ND	2.26	113	2.00	3.07	
Total Xylenes*	<0.150	0.150	01/14/2020	ND	6.71	112	6.00	3.02	
Total BTEX	<0.300	0.300	01/14/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	01/15/2020	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	01/15/2020	ND	207	103	200	4.20	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	214	107	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					
Surrogate: 1-Chlorooctane	97.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	101	% 37.6-14	7						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

*=Accredited Analyte



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

Analytical Results For:

APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To: (575) 393-2432

Received: 01/13/2020 Sampling Date: 01/13/2020

Reported: Sampling Type: Soil 01/16/2020

Project Name: **EMISSION LINE** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: SP 1 @ 4' (H000112-03)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2020	ND	2.27	114	2.00	2.72	
Toluene*	<0.050	0.050	01/15/2020	ND	2.29	114	2.00	3.21	
Ethylbenzene*	<0.050	0.050	01/15/2020	ND	2.26	113	2.00	3.07	
Total Xylenes*	<0.150	0.150	01/15/2020	ND	6.71	112	6.00	3.02	
Total BTEX	<0.300	0.300	01/15/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	01/15/2020	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	01/15/2020	ND	207	103	200	4.20	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	214	107	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					
Surrogate: 1-Chlorooctane	102 9	% 41-142							
Surrogate: 1-Chlorooctadecane	107 9	% 37.6-14	7						

Cardinal Laboratories

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Celey D. Keine



01/13/2020

Analytical Results For:

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

Received: 01/13/2020 Sampling Date:

ma/ka

Reported: 01/16/2020 Sampling Type: Soil

Project Name: EMISSION LINE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: me

Project Location: NONE GIVEN

Sample ID: SP 1 @ 6' (H000112-04)

RTFY 8021R

BIEX 8021B	тд/кд		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2020	ND	2.27	114	2.00	2.72	
Toluene*	<0.050	0.050	01/15/2020	ND	2.29	114	2.00	3.21	
Ethylbenzene*	<0.050	0.050	01/15/2020	ND	2.26	113	2.00	3.07	
Total Xylenes*	<0.150	0.150	01/15/2020	ND	6.71	112	6.00	3.02	
Total BTEX	<0.300	0.300	01/15/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	01/15/2020	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	01/15/2020	ND	207	103	200	4.20	
DRO >C10-C28*	<10.0	10.0	01/15/2020	ND	214	107	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	01/15/2020	ND					
Surrogate: 1-Chlorooctane	90.8	% 41-142	•						
Surrogate: 1-Chlorooctadecane	91.7	% 37.6-14	7						

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Analytical Results For:

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

 Received:
 01/13/2020
 Sampling Date:
 01/13/2020

 Reported:
 01/16/2020
 Sampling Type:
 Soil

Project Name: EMISSION LINE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: ms

Project Location: NONE GIVEN

BTEX 8021B

Sample ID: SP 2 @ SURFACE 32.7684205-104.2517483 (H000112-05)

mg/kg

DIEX COLLD	9/	~ 9	Allalyzo	u 27. 1113					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2020	ND	2.27	114	2.00	2.72	
Toluene*	<0.050	0.050	01/15/2020	ND	2.29	114	2.00	3.21	
Ethylbenzene*	<0.050	0.050	01/15/2020	ND	2.26	113	2.00	3.07	
Total Xylenes*	<0.150	0.150	01/15/2020	ND	6.71	112	6.00	3.02	
Total BTEX	<0.300	0.300	01/15/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	01/15/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	01/15/2020	ND	207	103	200	4.20	
		FO 0	01/15/2020	ND	214	107	200	7.17	
DRO >C10-C28*	46400	50.0	01/13/2020	ND					

Surrogate: 1-Chlorooctane 96.7 % 41-142 Surrogate: 1-Chlorooctadecane 1970 % 37.6-147

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Analytical Results For:

APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To: (575) 393-2432

Received: 01/13/2020 Sampling Date: 01/13/2020

Reported: 01/16/2020 Sampling Type: Soil

Project Name: EMISSION LINE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: SP 2 @ 2' (H000112-06)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2020	ND	2.04	102	2.00	1.60	
Toluene*	<0.050	0.050	01/15/2020	ND	2.06	103	2.00	1.34	
Ethylbenzene*	<0.050	0.050	01/15/2020	ND	2.07	103	2.00	1.76	
Total Xylenes*	<0.150	0.150	01/15/2020	ND	6.05	101	6.00	1.63	
Total BTEX	<0.300	0.300	01/15/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	01/15/2020	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	207	103	200	4.20	
DRO >C10-C28*	748	10.0	01/15/2020	ND	214	107	200	7.17	
EXT DRO >C28-C36	96.6	10.0	01/15/2020	ND					
Surrogate: 1-Chlorooctane	107	% 41-142	?						
Surrogate: 1-Chlorooctadecane	130	% 37.6-14	7						

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Analytical Results For:

APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To: (575) 393-2432

Received: 01/13/2020 Sampling Date: 01/13/2020

Reported: Sampling Type: Soil 01/16/2020

Project Name: **EMISSION LINE** Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: SP 2 @ 4' (H000112-07)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/15/2020	ND	2.04	102	2.00	1.60	
Toluene*	<0.050	0.050	01/15/2020	ND	2.06	103	2.00	1.34	
Ethylbenzene*	<0.050	0.050	01/15/2020	ND	2.07	103	2.00	1.76	
Total Xylenes*	<0.150	0.150	01/15/2020	ND	6.05	101	6.00	1.63	
Total BTEX	<0.300	0.300	01/15/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	01/15/2020	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	207	103	200	4.20	
DRO >C10-C28*	251	10.0	01/15/2020	ND	214	107	200	7.17	
EXT DRO >C28-C36	38.4	10.0	01/15/2020	ND					
Surrogate: 1-Chlorooctane	97.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	110	% 37.6-14	7						

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Analytical Results For:

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

Received: 01/13/2020 Sampling Date: 01/13/2020

Reported: Sampling Type: Soil 01/16/2020

Project Name: **EMISSION LINE** Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: SP 3 @ SURFACE 32.7694861-104.2528485 (H000112-08)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2020	ND	2.10	105	2.00	1.47	
Toluene*	<0.050	0.050	01/14/2020	ND	2.12	106	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/14/2020	ND	2.13	106	2.00	0.643	
Total Xylenes*	<0.150	0.150	01/14/2020	ND	6.22	104	6.00	0.865	
Total BTEX	<0.300	0.300	01/14/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	36800	16.0	01/15/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	191	95.3	200	4.25	
DRO >C10-C28*	422	10.0	01/15/2020	ND	233	117	200	5.69	
	160	10.0	01/15/2020	ND					

Surrogate: 1-Chlorooctane 81.6 % 41-142 Surrogate: 1-Chlorooctadecane 107 % 37.6-147

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01/13/2020

Analytical Results For:

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

Received: 01/13/2020 Sampling Date:

ma/ka

Reported: 01/16/2020 Sampling Type: Soil

Project Name: EMISSION LINE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: NONE GIVEN

Sample ID: SP 3 @ 2' (H000112-09)

RTFY 8021R

Value QC RPD Qu 2.00 1.47 2.00 2.00 2.00 0.643 6.00 0.865
2.00 2.00 2.00 0.643
2.00 0.643
6.00 0.865
Value QC RPD Qu
400 0.00
Value QC RPD Qu
200 4.25
200 5.69
e

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Analytical Results For:

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

Received: 01/13/2020 Sampling Date: 01/13/2020

Reported: 01/16/2020 Sampling Type: Soil

Project Name: EMISSION LINE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: SP 4 @ SURFACE 32.770173-104.2531739 (H000112-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2020	ND	2.10	105	2.00	1.47	
Toluene*	<0.050	0.050	01/14/2020	ND	2.12	106	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/14/2020	ND	2.13	106	2.00	0.643	
Total Xylenes*	<0.150	0.150	01/14/2020	ND	6.22	104	6.00	0.865	
Total BTEX	<0.300	0.300	01/14/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID 97.8 % 73.3-129

mg,	/kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
14900	16.0	01/15/2020	ND	432	108	400	0.00	
mg,	/kg	Analyze	d By: MS					S-06
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<50.0	50.0	01/15/2020	ND	191	95.3	200	4.25	
34900	50.0	01/15/2020	ND	233	117	200	5.69	
9120	50.0	01/15/2020	ND					
	Result 14900 mg/ Result <50.0 34900	14900 16.0 mg/kg Result Reporting Limit <50.0 50.0 34900 50.0	Result Reporting Limit Analyzed 14900 16.0 01/15/2020 mg/kg Analyzed Result Reporting Limit Analyzed <50.0	Result Reporting Limit Analyzed Method Blank 14900 16.0 01/15/2020 ND mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank <50.0	Result Reporting Limit Analyzed Method Blank BS 14900 16.0 01/15/2020 ND 432 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS <50.0	Result Reporting Limit Analyzed Method Blank BS % Recovery 14900 16.0 01/15/2020 ND 432 108 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery <50.0	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 14900 16.0 01/15/2020 ND 432 108 400 Method Blank BS % Recovery True Value QC <50.0	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 14900 16.0 01/15/2020 ND 432 108 400 0.00 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <50.0

Surrogate: 1-Chlorooctane 99.3 % 41-142 Surrogate: 1-Chlorooctadecane 1520 % 37.6-147

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01/13/2020

Analytical Results For:

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

Received: 01/13/2020 Sampling Date:

Reported: 01/16/2020 Sampling Type: Soil

Project Name: **EMISSION LINE** Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: SP 4 @ 2' (H000112-11)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2020	ND	2.10	105	2.00	1.47	
Toluene*	<0.050	0.050	01/14/2020	ND	2.12	106	2.00	2.00	
Ethylbenzene*	0.214	0.050	01/14/2020	ND	2.13	106	2.00	0.643	
Total Xylenes*	<0.150	0.150	01/14/2020	ND	6.22	104	6.00	0.865	
Total BTEX	<0.300	0.300	01/14/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	185 %	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/15/2020	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	42.8	10.0	01/15/2020	ND	191	95.3	200	4.25	
DRO >C10-C28*	5050	10.0	01/15/2020	ND	233	117	200	5.69	
EXT DRO >C28-C36	902	10.0	01/15/2020	ND					
Surrogate: 1-Chlorooctane	87.2	% 41-142	?						
Surrogata: 1 Chloroctadaeana	211 0	V 37.6.14	7						

211 % Surrogate: 1-Chlorooctadecane 37.6-147

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Analytical Results For:

APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-24

Fax To: (575) 393-2432

Received: 01/13/2020 Sampling Date: 01/13/2020

Reported: 01/16/2020 Sampling Type: Soil

Project Name: EMISSION LINE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: SP 4 @ 4' (H000112-12)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/14/2020	ND	2.10	105	2.00	1.47	
Toluene*	<0.050	0.050	01/14/2020	ND	2.12	106	2.00	2.00	
Ethylbenzene*	<0.050	0.050	01/14/2020	ND	2.13	106	2.00	0.643	
Total Xylenes*	<0.150	0.150	01/14/2020	ND	6.22	104	6.00	0.865	
Total BTEX	<0.300	0.300	01/14/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	01/15/2020	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/15/2020	ND	191	95.3	200	4.25	
DRO >C10-C28*	90.4	10.0	01/15/2020	ND	233	117	200	5.69	
EXT DRO >C28-C36	14.7	10.0	01/15/2020	ND					
Surrogate: 1-Chlorooctane	95.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	107	% 37.6-14	7						

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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 SM4500CI-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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Relinquished By:

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Corrected Temp. °C

Sample Condition
Cool Intact
TYes TYes
No No

0

Thermometer ID #97 Correction Factor + 0.4 °C

CHECKED BY: (Initials)

Turnaround Time:

Standard Rush

REMARKS:

Observed Temp. °C 5.60

Time: Date: affiliates or successors arising out-of-or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated Relinguished By:

| Date: _____ | Received/Bv:

Time: 35 Date: 3-120

Received By:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

1	V)	1
	1	W	1

Project Manager: Seff Brown P.O. #:
Address: Company:
City: 40605 State: NM Zip: 88246 Attn:
Phone #: Fax #: Address:
Project #: Project Owner: City:
Project Name: State: Zip:
Project Location: Funissia Line Phone #:
Sampler Name: Tose Liotala Fax #:
FOR LAB USE ONLY MATRIX PRESERV. SAMPLING
C C COOL CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ACID/BAS
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W.
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All Results are emailed. Please provide Email address:

□ No

Add'l Phone #:

Verbal Result: ☐ Yes

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 oratories

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

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LEASE NOTE: Lability and Damages. Cardinal's lability and client's exclusive remedy for any Jelim arising whether based in contract or tort, shall be limited to the amount paid by the client for the nalyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable naives, and cardinal be Lable for incidental or consequental damages, including without limitation, business interruptions, loss of outer, or loss of profits incurred by client, its subsidiaries, fillates or subaessors arising out of orderlated to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	and client's exclusive remedy for any cly other cause whatsoever shall be deer or consequental damages, including with imance of services hereunder by Cardi	aim arising ned waived out limitati	y whether based in contract o d unless made in writing and i ion, business interruptions, lo: iless of whether such claim is	r tort, shall t received by ss of use, or based upor	be limited t Cardinal w r loss of pr n any of the	o the amount paid ithin 30 days after ofts incurred by cli	by the client for th completion of the ent, its subsidiaries	e applicable s,							
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January 20, 2020

JEFFREY BROOM

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EMISSION LINE

Enclosed are the results of analyses for samples received by the laboratory on 01/14/20 14:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keene

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,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 01/14/2020 Sampling Date: 01/14/2020 Reported: 01/20/2020 Sampling Type: Soil

Project Name: EMISSION LINE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By MC

Project Location: NONE GIVEN

Sample ID: SP 3 @ 4' (H000122-01)

DTEV 0021D

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2020	ND	1.98	98.8	2.00	6.81	
Toluene*	<0.050	0.050	01/16/2020	ND	1.97	98.5	2.00	7.39	
Ethylbenzene*	<0.050	0.050	01/16/2020	ND	2.00	99.8	2.00	7.46	
Total Xylenes*	<0.150	0.150	01/16/2020	ND	5.81	96.8	6.00	7.51	
Total BTEX	<0.300	0.300	01/16/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	01/16/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2020	ND	225	113	200	4.89	
DRO >C10-C28*	<10.0	10.0	01/17/2020	ND	231	116	200	5.45	
EXT DRO >C28-C36	<10.0	10.0	01/17/2020	ND					
Surrogate: 1-Chlorooctane	81.6	% 41-142	,						
Surrogate: 1-Chlorooctadecane	80.8	% 37.6-14	7						

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene



01/14/2020

Analytical Results For:

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

Received: 01/14/2020

ma/ka

Reported: 01/20/2020 Sampling Type: Soil

Project Name: EMISSION LINE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MC

Sampling Date:

Project Location: NONE GIVEN

Sample ID: SP 3 @ 5' (H000122-02)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2020	ND	1.98	98.8	2.00	6.81	
Toluene*	<0.050	0.050	01/16/2020	ND	1.97	98.5	2.00	7.39	
Ethylbenzene*	<0.050	0.050	01/16/2020	ND	2.00	99.8	2.00	7.46	
Total Xylenes*	<0.150	0.150	01/16/2020	ND	5.81	96.8	6.00	7.51	
Total BTEX	<0.300	0.300	01/16/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	01/16/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2020	ND	225	113	200	4.89	
DRO >C10-C28*	<10.0	10.0	01/17/2020	ND	231	116	200	5.45	
EXT DRO >C28-C36	<10.0	10.0	01/17/2020	ND					
Surrogate: 1-Chlorooctane	84.3	% 41-142	•						
Surrogate: 1-Chlorooctadecane	84.0	% 37.6-14	7						

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Celey D. Keene



01/14/2020

Analytical Results For:

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

Received: 01/14/2020 Sampling Date:

Reported: 01/20/2020 Sampling Type: Soil

Project Name: EMISSION LINE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: SP 4 @ 5' (H000122-03)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2020	ND	1.98	98.8	2.00	6.81	
Toluene*	<0.050	0.050	01/16/2020	ND	1.97	98.5	2.00	7.39	
Ethylbenzene*	<0.050	0.050	01/16/2020	ND	2.00	99.8	2.00	7.46	
Total Xylenes*	<0.150	0.150	01/16/2020	ND	5.81	96.8	6.00	7.51	
Total BTEX	<0.300	0.300	01/16/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	01/16/2020	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2020	ND	225	113	200	4.89	
DRO >C10-C28*	<10.0	10.0	01/17/2020	ND	231	116	200	5.45	
EXT DRO >C28-C36	<10.0	10.0	01/17/2020	ND					
Surrogate: 1-Chlorooctane	86.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	83.3	% 37.6-14	7						

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Celey D. Keene



Analytical Results For:

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

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Received: 01/14/2020 Sampling Date: 01/14/2020

Reported: 01/20/2020 Sampling Type: Soil

Project Name: EMISSION LINE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: SP 6 @ SURFACE 32.7681267-104.2513922 (H000122-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2020	ND	1.98	98.8	2.00	6.81	
Toluene*	<0.050	0.050	01/16/2020	ND	1.97	98.5	2.00	7.39	
Ethylbenzene*	<0.050	0.050	01/16/2020	ND	2.00	99.8	2.00	7.46	
Total Xylenes*	<0.150	0.150	01/16/2020	ND	5.81	96.8	6.00	7.51	
Total BTEX	<0.300	0.300	01/16/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chlorida	F300	16.0	01/16/2020	ND	416	104	400	0.00	

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5280	16.0	01/16/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2020	ND	225	113	200	4.89	
DRO >C10-C28*	50.2	10.0	01/17/2020	ND	231	116	200	5.45	
EXT DRO >C28-C36	<10.0	10.0	01/17/2020	ND					

Surrogate: 1-Chlorooctane 82.9 % 41-142 Surrogate: 1-Chlorooctadecane 84.6 % 37.6-147

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Analytical Results For:

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

Received: 01/14/2020

ma/ka

Sampling Date: 01/14/2020 Reported: 01/20/2020 Sampling Type: Soil

Project Name: **EMISSION LINE** Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Analyzed By: MC

Project Location: NONE GIVEN

Sample ID: SP 6 @ 2' (H000122-05)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2020	ND	1.98	98.8	2.00	6.81	
Toluene*	<0.050	0.050	01/16/2020	ND	1.97	98.5	2.00	7.39	
Ethylbenzene*	<0.050	0.050	01/16/2020	ND	2.00	99.8	2.00	7.46	
Total Xylenes*	<0.150	0.150	01/16/2020	ND	5.81	96.8	6.00	7.51	
Total BTEX	<0.300	0.300	01/16/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	01/16/2020	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2020	ND	225	113	200	4.89	
DRO >C10-C28*	<10.0	10.0	01/17/2020	ND	231	116	200	5.45	
EXT DRO >C28-C36	<10.0	10.0	01/17/2020	ND					
Surrogate: 1-Chlorooctane	83.6	% 41-142	•						
Surrogate: 1-Chlorooctadecane	81.3	% 37.6-14	7						

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Celey D. Keine



Analytical Results For:

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

ma/ka

Received: 01/14/2020 Sampling Date: 01/14/2020

Reported: 01/20/2020 Sampling Type: Soil

Project Name: EMISSION LINE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: NONE GIVEN

Sample ID: SP 6 @ 4' (H000122-06)

RTFY 8021R

Result <0.050 <0.050 <0.050 <0.150 <0.300	Reporting Limit 0.050 0.050 0.050 0.150	Analyzed 01/16/2020 01/16/2020 01/16/2020	Method Blank ND ND	BS 1.98 1.97	% Recovery 98.8	True Value QC 2.00	RPD 6.81	Qualifier
<0.050 <0.050 <0.150	0.050 0.050	01/16/2020				2.00	6.81	
<0.050 <0.150	0.050		ND	1.97	00.5			
<0.150		01/16/2020			98.5	2.00	7.39	
	0.150		ND	2.00	99.8	2.00	7.46	
<0.300	0.150	01/16/2020	ND	5.81	96.8	6.00	7.51	
	0.300	01/16/2020	ND					
99.0	% 73.3-12	9						
mg	/kg	Analyze	d By: AC					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
464	16.0	01/16/2020	ND	416	104	400	3.77	
mg	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	01/17/2020	ND	225	113	200	4.89	
<10.0	10.0	01/17/2020	ND	231	116	200	5.45	
<10.0	10.0	01/17/2020	ND					
	% 41-142	1						
82.2	70 71-172							
	Result 464 mg Result <10.0 <10.0 <10.0	mg/kg Result Reporting Limit 464 16.0 mg/kg Result Reporting Limit <10.0	mg/kg Analyzed Result Reporting Limit Analyzed 464 16.0 01/16/2020 mg/kg Analyzed Result Reporting Limit Analyzed <10.0	mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank 464 16.0 01/16/2020 ND mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank <10.0	mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS 464 16.0 01/16/2020 ND 416 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS <10.0	mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery 464 16.0 01/16/2020 ND 416 104 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery <10.0	mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 464 16.0 01/16/2020 ND 416 104 400 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <10.0	mg/kg Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 464 16.0 01/16/2020 ND 416 104 400 3.77 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <10.0

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Analytical Results For:

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

Received: 01/14/2020 Sampling Date: 01/14/2020 Reported: 01/20/2020 Sampling Type: Soil

Project Name: **EMISSION LINE** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: SP 5 @ SURFACE 32.7681547-104.2517989 (H000122-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2020	ND	1.98	98.8	2.00	6.81	
Toluene*	<0.050	0.050	01/16/2020	ND	1.97	98.5	2.00	7.39	
Ethylbenzene*	<0.050	0.050	01/16/2020	ND	2.00	99.8	2.00	7.46	
Total Xylenes*	<0.150	0.150	01/16/2020	ND	5.81	96.8	6.00	7.51	
Total BTEX	<0.300	0.300	01/16/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	01/16/2020	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d 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	01/17/2020	ND	225	113	200	4.89	
DRO >C10-C28*	8650	10.0	01/17/2020	ND	231	116	200	5.45	
EXT DRO >C28-C36	1930	10.0	01/17/2020	ND					
Surrogate: 1-Chlorooctane	85.3 9	% 41-142	?						
Surrogate: 1-Chloroctadecane	3120	/ ₂ 37.6.1.4	7						

342 % Surrogate: 1-Chlorooctadecane 37.6-147

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*=Accredited Analyte



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

Analytical Results For:

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

ma/ka

Received: 01/14/2020 Sampling Date: 01/14/2020

Reported: 01/20/2020 Sampling Type: Soil

Project Name: EMISSION LINE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: NONE GIVEN

Sample ID: SP 5 @ 1' (H000122-08)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2020	ND	1.98	98.8	2.00	6.81	
Toluene*	<0.050	0.050	01/16/2020	ND	1.97	98.5	2.00	7.39	
Ethylbenzene*	<0.050	0.050	01/16/2020	ND	2.00	99.8	2.00	7.46	
Total Xylenes*	<0.150	0.150	01/16/2020	ND	5.81	96.8	6.00	7.51	
Total BTEX	<0.300	0.300	01/16/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 73.3-129	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	01/16/2020	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/17/2020	ND	225	113	200	4.89	
DRO >C10-C28*	150	10.0	01/17/2020	ND	231	116	200	5.45	
EXT DRO >C28-C36	19.8	10.0	01/17/2020	ND					
Surrogate: 1-Chlorooctane	75.5	% 41-142							
Surrogate: 1-Chlorooctadecane	82.1	% 37.6-14	7						

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Celeg & Freene



Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

CARDINALLaboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

☐ No☐ No Corrected Temp. °C	Forrection Factor + 9.4% 72	1	L No L No		FORM-006 R 3.0	
☐ Yes ☐ Yes	Thermometer ID #97 #1/3	d (minuals)	(g)	Corrected Temp. °C	Sampler - UPS - Bus - Other:	Sample
ly) s	Turnaround Time: Standard	BY:	5.3 Sample Condition	Observed Temp. °C	Delivered By: (Circle One)	Deliver
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	REMARKS:	- Comman	Received By:	Date:	Relinquished By:	Relinqu
vide Einali address:	An results at a citation. Library browthe Citati address:	Charles Andrews	Samora	Time:	a Charachell	
Add'I Phone #:	Verbal Result: Yes No No	11/11/11	Received By:	Date:	Relinquished By:	Reling
	ent, its subsidiaries,	of use, or loss of profits incurred by clie ised upon any of the above stated reas	without limitation, business interruptions, loss or irdinal, regardless of whether such claim is ba	or consequental damages, including or consequental damages, including of formance of services hereunder by Ca	service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	affiliates or s
	by the client for the completion of the applicable	ort, shall be limited to the amount paid to elved by Cardinal within 30 days after of	y claim arising whether based in contract or to eemed waived unless made in writing and rec	any other cause whatsoever shall be d	analyses, All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable	analyses. Al
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	<i>F)</i>		L	ESCACION)	Sampler Name: CO VI	Sample
		Phone #:	ם	NOW LINE	Project Location:	Project
		State: Zip:	S	,	Project Name:	Project
		City:		Project Owner:	ct #:	Project #:
		Address:		Fax #:	e #:	Phone #:
		Attn:	State: NM Zip: SSJ40 A	State: WM	Hobbs	city:
		Company:	O	(SS:	Address:
		P.O. #:	P	55057	Project Manager:	Project
ANALYSIS REQUEST		BILL TO)	Company Name: 1000	Compa



January 28, 2020

JEFFREY BROOM

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EMULSION LINE

Enclosed are the results of analyses for samples received by the laboratory on 01/22/20 15:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keene

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,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

 Received:
 01/22/2020
 Sampling Date:
 01/22/2020

 Reported:
 01/28/2020
 Sampling Type:
 Soil

Reported: 01/28/2020 Sampling Type: Soil
Project Name: EMULSION LINE Sampling Condition: Cool & Intact

Project Number: NONE GIVEN Sample Received By: Tamara Oldaker
Project Location: NONE GIVEN

Analyzed By MC

Sample ID: SP 4 @ 6' (H000223-01)

DTEV 0021D

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/24/2020	ND	1.72	85.9	2.00	20.9	
Toluene*	<0.050	0.050	01/24/2020	ND	1.77	88.3	2.00	21.6	
Ethylbenzene*	<0.050	0.050	01/24/2020	ND	1.73	86.4	2.00	21.6	
Total Xylenes*	<0.150	0.150	01/24/2020	ND	5.04	83.9	6.00	21.8	
Total BTEX	<0.300	0.300	01/24/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/24/2020	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2020	ND	199	99.7	200	0.384	
DRO >C10-C28*	<10.0	10.0	01/24/2020	ND	206	103	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	01/24/2020	ND					
Surrogate: 1-Chlorooctane	70.0	% 41-142)						
Surrogate: 1-Chlorooctadecane	70.0	% 37.6-14	7						

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Analytical Results For:

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

(0.3) 515 -

Received: 01/22/2020 Sampling Date: 01/22/2020

Reported: 01/28/2020 Sampling Type: Soil

Project Name: EMULSION LINE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: SP 2 @ 5' (H000223-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2020	ND	1.83	91.3	2.00	16.5	
Toluene*	<0.050	0.050	01/27/2020	ND	1.78	89.1	2.00	17.3	
Ethylbenzene*	<0.050	0.050	01/27/2020	ND	1.77	88.7	2.00	17.2	
Total Xylenes*	<0.150	0.150	01/27/2020	ND	5.22	87.0	6.00	17.3	
Total BTEX	<0.300	0.300	01/27/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 73.3-12	9						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2020	ND	199	99.7	200	0.384	
DRO >C10-C28*	<10.0	10.0	01/24/2020	ND	206	103	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	01/24/2020	ND					
Surrogate: 1-Chlorooctane	73.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	73.3	% 37.6-14	7						

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Celey D. Keine



01/22/2020

Analytical Results For:

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

Received: 01/22/2020 Sampling Date:

Reported: 01/28/2020 Sampling Type: Soil

Project Name: EMULSION LINE Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: SP 5 @ 3' (H000223-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2020	ND	1.83	91.3	2.00	16.5	
Toluene*	<0.050	0.050	01/27/2020	ND	1.78	89.1	2.00	17.3	
Ethylbenzene*	<0.050	0.050	01/27/2020	ND	1.77	88.7	2.00	17.2	
Total Xylenes*	<0.150	0.150	01/27/2020	ND	5.22	87.0	6.00	17.3	
Total BTEX	<0.300	0.300	01/27/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 73.3-12	9						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/24/2020	ND	199	99.7	200	0.384	
DRO >C10-C28*	<10.0	10.0	01/24/2020	ND	206	103	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	01/24/2020	ND					
Surrogate: 1-Chlorooctane	71.8	% 41-142	!						
Surrogate: 1-Chlorooctadecane	72.3	% 37.6-14	7						

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Notes and Definitions

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC

batch were accepted based on percent recoveries and completeness of QC data.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

Relinquished By:

Date:

Received By:

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Observed Temp. °C 5.4 Corrected Temp. °C

Sample Condition
Cool Intact
Yes Yes
No No

CHECKED BY: (Initials) 4

Turnaround Time:

Standard Rush

Bacteria (only) Sample Condition
Cool Intact Observed Temp. °C

Yes Yes
No Ocrrected Temp. °C

Corrected Temp. °C

REMARKS:

Time:

affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

| Received By: | service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

Received By:

All Results are emailed. Please provide Email address:

☐ No Add'I Phone #:

muil Results

Verbal Result: ☐ Yes

Date: 1/82/202

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: 120005 State: JUL	State: JUL Zip: 88,240	Attn:	
7	24	Address:	
Project #: Project Owner:	••	City:	
Project Name:		State: Zip:	
Project Location: Emission Use		Phone #:	
Sampler Name: And One said of the		Fax #:	
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	
Lab I.D. Sample I.D.	PAB OR (C)OMP. CONTAINERS ROUNDWATER ASTEWATER DIL L UDGE	THER: DID/BASE: DF/COOL THER:	S/ SXX TPHI PIEX
1 584 06	gr 	7 1120 00:57	/ / /
259205	1 5	1 1/22 11:01pm	
55503	8 1 7	1 1/22 11:55 AM	
PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any plain asking whether based in contrast action shall be liability and remedy and client's exclusive remedy for any plain asking whether based in contrast action shall be liability and client's exclusive remedy for any plain asking whether based in contrast action shall be liability and client's exclusive remedy for any plain asking whether based in contrast action shall be liability and client's exclusive remedy for any plain asking whether based in contrast action shall be liability and client's exclusive remedy for any plain asking whether based in contrast action shall be liability and client's exclusive remedy for any plain asking whether based in contrast action shall be liability and client's exclusive remedy for any plain asking whether based in contrast action shall be liability.	v claim arising whether based in contract	oriot shall be limited to be amount and but he altest for	
analyses. All claims including those for regiligence and any other cause whatsoever shall be deemed wheed unless made in writing and received by Cardinal by Cardi	deemed waived unless made in writing and	or with street by the attribute page to the cheft for our street by the cheft for	III C

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

Thermometer ID #97 Correction Factor + 0.4 °C

END OF REPORT

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

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 33954

CONDITIONS

Operator:	OGRID:
APACHE CORPORATION	873
303 Veterans Airpark Ln	Action Number:
Midland, TX 79705	33954
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bbillings	If a confirmation sample fails on data in the treatment cell, contact OCD with data. Additional samples may be required at that time by OCD based on data.	7/30/2021