

303 Veterans Airpark Lane Midland, TX 79705

## **Remediation Plan**

October 28, 2021

*Re: EAU M-9 Emulsion Trunk Line Case #: nAPP2121456443* 

## Background:

On 8/1/2021 a release occurred due to a buried fiberglass line failed. The release (GPS: 32.767600, -104.256500) is located east of Artesia, New Mexico in unit letter D section 11 township 18S range 27E. A groundwater survey was conducted utilizing NMOSE wells of record. The nearest well of record suggest the groundwater depth below the release to be 50 feet below ground surface. The release is in a high karst area.

On 3/9/2021 vertical delineation was conducted in regular intervals utilizing a backhoe to depths of 2,3 and 5 feet. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. 5 point surface horizontal 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 area around SP 1 and SP 4 be excavated to a depth of 4 feet and the area around SP 2 and SP 3 be excavated to a depth of 2 feet. All excavated soil (3000 yards) will be hauled to an OCD approved disposal facility. Once the excavation is complete final 5-point bottom composite samples will be collected not to exceed 500 square feet. Final 5-point wall composite samples will be collected not to exceed 200 square feet. All samples collected will be submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Once laboratory results are below table one standards for releases less than or equal to 50 feet to groundwater the excavation will be backfilled with clean imported topsoil. The disturbed area will be reseeded in accordance with the surface landowner guidelines. The remediation will be completed within 90 days of OCD approval of the plan.

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

Submitted by;

Bruce Baker

*Environmental Technician larry.baker@apachecorp.com Cell# 432-631-6982* 

Form C-141 Page 3

State of New Mexico Oil Conservation Division

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?	(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?	Ves 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 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
  - Determination of water sources and sign
    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.

Form C-141	State of New M		Incident ID		
Page 4	Oil Conservation I	Division	District RP		
			Facility ID		
			Application ID		
addition OCD accontance	of a C 141 month down and a Revent	at pose a uncar to groundwate	r, surface water, human health or the env	ironment. In	
addition, OCD acceptance and/or regulations. Printed Name: Larry Signature: <u>Larry</u> email: larry.baker(	Baker	Title: Enviro Date: 10/28	compliance with any other federal, state	aronment. In e, or local laws	

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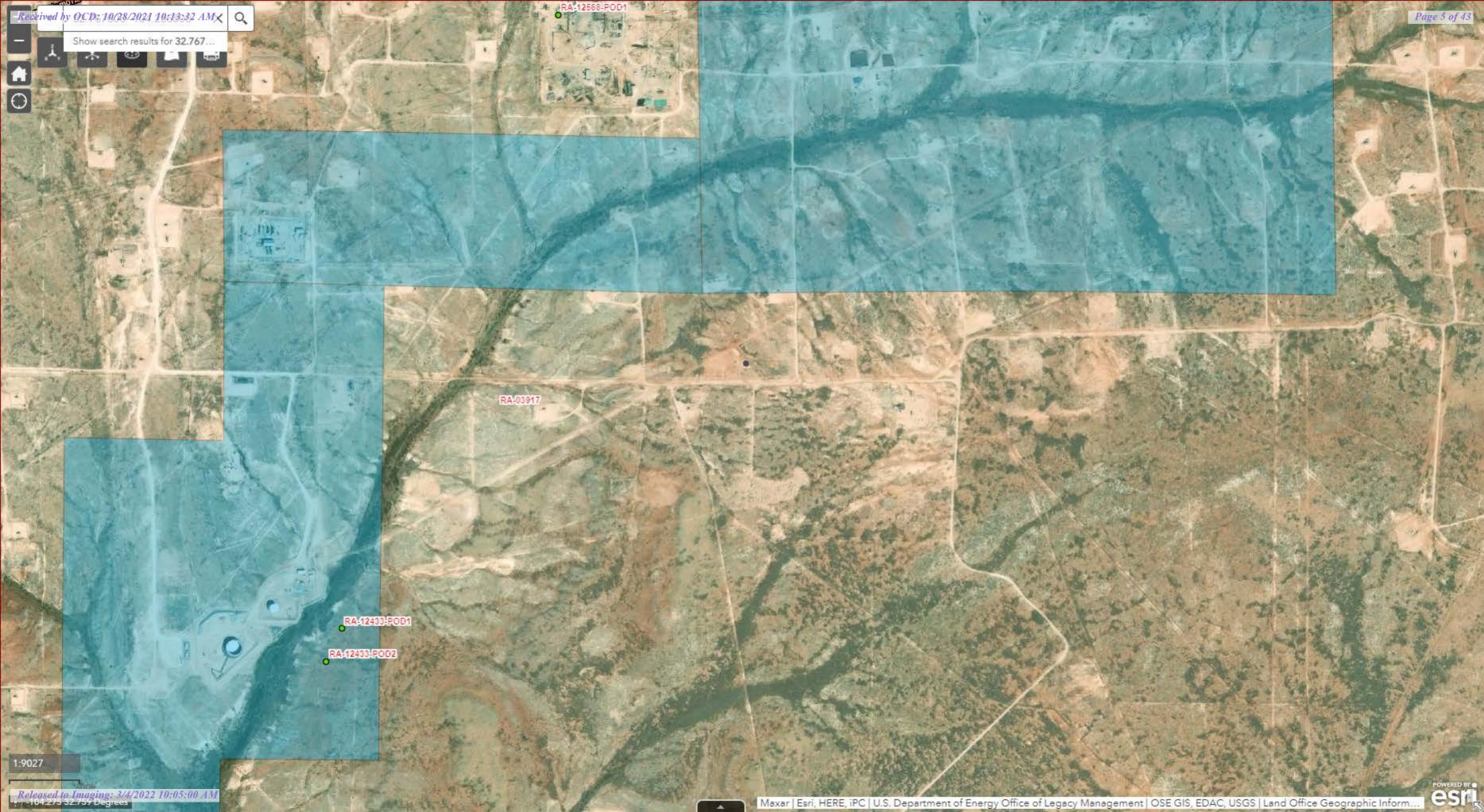
Form C-141 Page 5

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

## **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be included in the plan. Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: Larry Baker Title: Environmental Tech. SR. Signature: Lany Baher Date: 10/2/2021 email: larry.baker@apachecorp.com Telephone: 432-631-6982 **OCD Only** Received by: Date: Approved Approved with Attached Conditions of Approval Deferral Approved Denied Signature: Date:





## New Mexico Office of the State Engineer **Point of Diversion Summary**

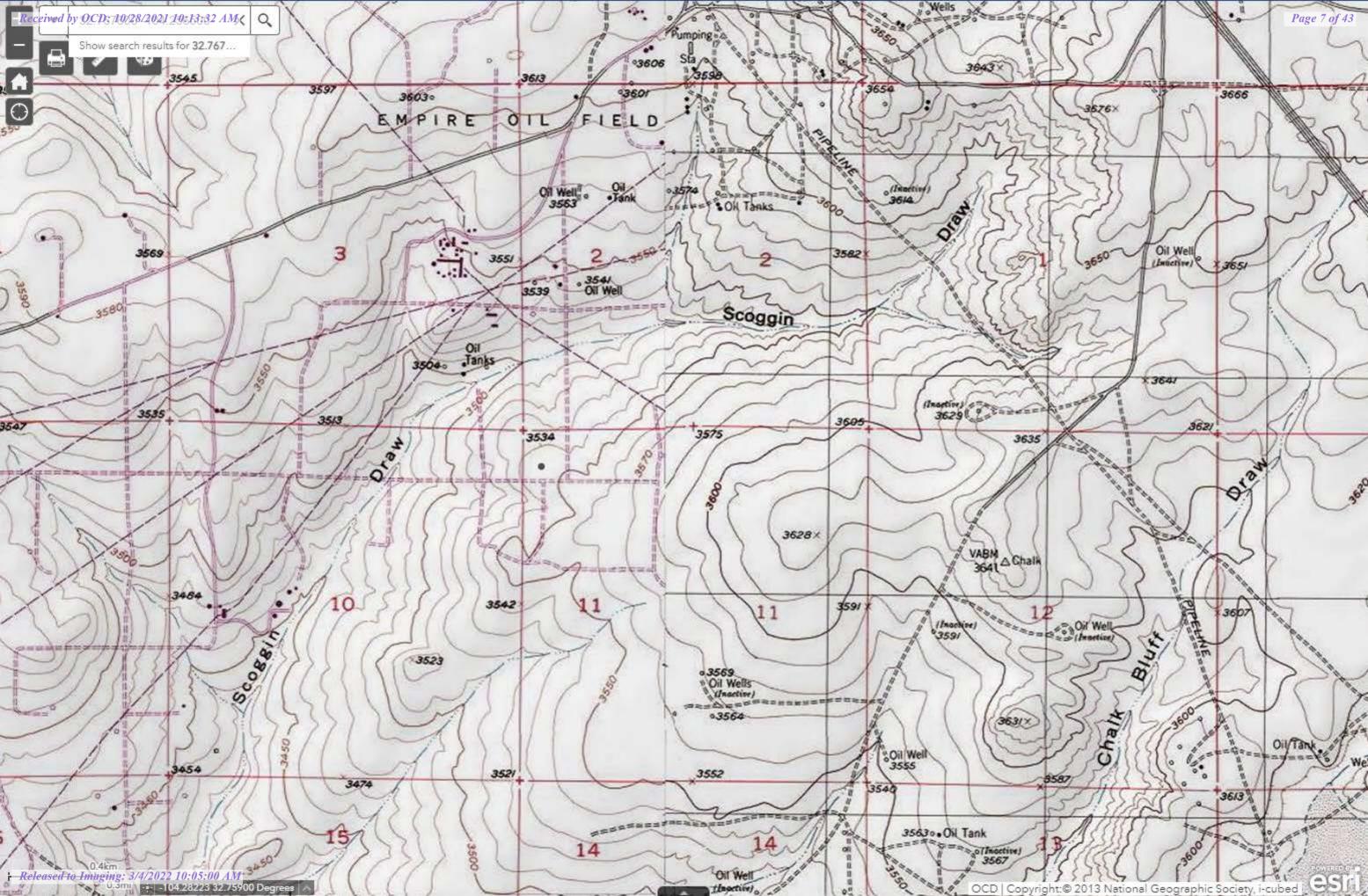
(quarters are smallest to	largest)	(NAD83 UTM in meters)	
	0 )	X Y	
4 1 2 10	18S 27E	569019 3625660* 🌍	
Driller Company:	BURKE, ED	WARD B.	
<b>Drill Finish Date:</b>	07/31/1958	8 Plug Date:	
PCW Rcv Date:		Source:	Artesian
Pipe Discharge Size:		<b>Estimated Yield:</b>	
Depth Well:	130 feet	Depth Water:	50 feet
	4 1 2 10 Driller Company: Drill Finish Date: PCW Rcv Date: Pipe Discharge Size:	Driller Company: BURKE, EE Drill Finish Date: 07/31/1958 PCW Rcv Date: Pipe Discharge Size:	4    1    2    10    18S    27E    569019    3625660*      Driller Company:    BURKE, EDWARD B.      Drill Finish Date:    07/31/1958    Plug Date:      PCW Rcv Date:    Source:      Pipe Discharge Size:    Estimated Yield:

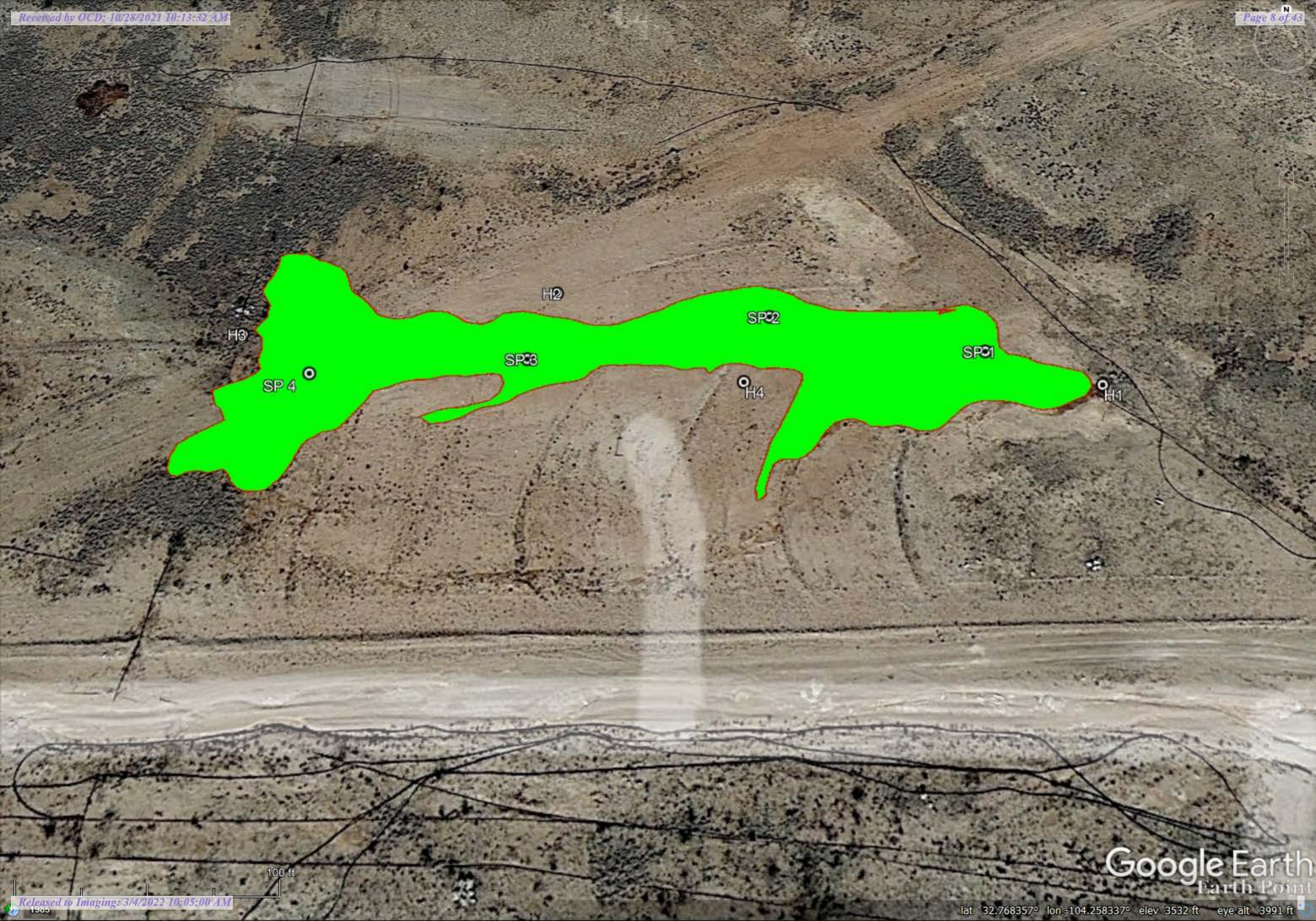
## \*UTM location was derived from PLSS - see Help

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.

10/28/21 7:07 AM

POINT OF DIVERSION SUMMARY





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	Delineation Samples											
Sample	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenz	Total	Total	GRO	DRO	EXT DRO	GPS
Date			Lab			ene	Xylenes	BTEX				Coordinates
												32.7676384,
9/9/2021	SP 1	Surface	1,200	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	208	71	-104.2565565
		1'	4720	<0.050	<0.050	<0.050	45.1	45.1	951	7050	943	
		2'	1540	<0.050	<0.050	<0.050	0.273	<0.300	20.1	599	96.0	
		3'	1250	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	115	16.1	
		4'	544	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	41	<10.0	
		5'	528	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
												32.7677052,
9/9/2021	SP 2	Surface	15600	<0.050	<0.050	<0.050	<0.150	<0.300	<100	364	94.4	-104.2568891
		1'	1200	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		2'	448	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		3'	480	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
												32.7676136,
9/9/2021	SP 3	Surface	12200	<0.050	<0.050	<0.050	<0.150	<0.300	62.6	34600	7650	-104.2572679
		1'	1470	< 0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		2'	416	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
												32.7676192,
9/9/2021	SP 4	Surface	13300	<0.050	<0.050	<0.050	0.349	0.349	<50.0	7,940	1,990	-104.2576062
		1'	2600	< 0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		2'	1570	<0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	10.4	<10.0	
		3'	1070	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
		4'	768	<0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	10.1	<10.0	
		5'	368	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
												32.7675504,
	H1	Surface	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-104.2563295
												32.7677433,
	H2	Surface	592	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	41	11	-104.2572270
												32.7678324,
	Н3	Surface	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-104.2576820
												32.7675815,
	H4	Surface	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-104.2569367



September 14, 2021

JEFFREY BROOM APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EAU M9 EMULSION LINE

Enclosed are the results of analyses for samples received by the laboratory on 09/09/21 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	09/09/2021	Sampling Date:	09/09/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	EAU M9 EMULSION LINE	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: SP 1 @ SURFACE (H212499-01)

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	09/11/2021	ND	1.88	94.0	2.00	0.282	
Toluene*	<0.050	0.050	09/11/2021	ND	2.05	103	2.00	0.466	
Ethylbenzene*	<0.050	0.050	09/11/2021	ND	2.03	102	2.00	0.0987	
Total Xylenes*	<0.150	0.150	09/11/2021	ND	6.14	102	6.00	0.315	
Total BTEX	<0.300	0.300	09/11/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	09/13/2021	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	09/11/2021	ND	216	108	200	4.42	
DRO >C10-C28*	208	10.0	09/11/2021	ND	221	111	200	4.24	
EXT DRO >C28-C36	71.0	10.0	09/11/2021	ND					
Surrogate: 1-Chlorooctane	83.2	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	93.7	% 38.9-14	2						

## Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/09/2021	Sampling Date:	09/09/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	EAU M9 EMULSION LINE	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: SP 1 @ 1' (H212499-02)

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*	<0.200	0.200	09/11/2021	ND	1.88	94.0	2.00	0.282	
Toluene*	<0.200	0.200	09/11/2021	ND	2.05	103	2.00	0.466	GC-NC
Ethylbenzene*	<0.200	0.200	09/11/2021	ND	2.03	102	2.00	0.0987	
Total Xylenes*	45.1	0.600	09/11/2021	ND	6.14	102	6.00	0.315	
Total BTEX	45.1	1.20	09/11/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	203	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	09/13/2021	ND	432	108	400	3.77	
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*	951	50.0	09/11/2021	ND	216	108	200	4.42	
DRO >C10-C28*	7050	50.0	09/11/2021	ND	221	111	200	4.24	
EXT DRO >C28-C36	943	50.0	09/11/2021	ND					
Surrogate: 1-Chlorooctane	245	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	262	% 38.9-14	2						

## Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/09/2021	Sampling Date:	09/09/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	EAU M9 EMULSION LINE	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: SP 1 @ 2' (H212499-03)

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	09/10/2021	ND	1.88	94.0	2.00	0.282	
Toluene*	<0.050	0.050	09/10/2021	ND	2.05	103	2.00	0.466	
Ethylbenzene*	<0.050	0.050	09/10/2021	ND	2.03	102	2.00	0.0987	
Total Xylenes*	0.273	0.150	09/10/2021	ND	6.14	102	6.00	0.315	
Total BTEX	<0.300	0.300	09/10/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1540	16.0	09/13/2021	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*	20.1	10.0	09/11/2021	ND	216	108	200	4.42	
DRO >C10-C28*	599	10.0	09/11/2021	ND	221	111	200	4.24	
EXT DRO >C28-C36	96.0	10.0	09/11/2021	ND					
Surrogate: 1-Chlorooctane	110 9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	123	% 38.9-14	2						

## Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/09/2021	Sampling Date:	09/09/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	EAU M9 EMULSION LINE	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: SP 2 @ SURFACE (H212499-04)

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	09/10/2021	ND	1.88	94.0	2.00	0.282	
Toluene*	<0.050	0.050	09/10/2021	ND	2.05	103	2.00	0.466	
Ethylbenzene*	<0.050	0.050	09/10/2021	ND	2.03	102	2.00	0.0987	
Total Xylenes*	<0.150	0.150	09/10/2021	ND	6.14	102	6.00	0.315	
Total BTEX	<0.300	0.300	09/10/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	69.9-14	10						
Chloride, SM4500Cl-B	mg/	kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15600	16.0	09/13/2021	ND	432	108	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	09/11/2021	ND	216	108	200	4.42	
DRO >C10-C28*	364	10.0	09/11/2021	ND	221	111	200	4.24	
EXT DRO >C28-C36	94.4	10.0	09/11/2021	ND					
Surrogate: 1-Chlorooctane	93.0 9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	109 %	38.9-14							

## Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/09/2021	Sampling Date:	09/09/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	EAU M9 EMULSION LINE	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: SP 2 @ 1' (H212499-05)

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	09/10/2021	ND	1.88	94.0	2.00	0.282	
Toluene*	<0.050	0.050	09/10/2021	ND	2.05	103	2.00	0.466	
Ethylbenzene*	<0.050	0.050	09/10/2021	ND	2.03	102	2.00	0.0987	
Total Xylenes*	<0.150	0.150	09/10/2021	ND	6.14	102	6.00	0.315	
Total BTEX	<0.300	0.300	09/10/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	09/13/2021	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	09/11/2021	ND	216	108	200	4.42	
DRO >C10-C28*	<10.0	10.0	09/11/2021	ND	221	111	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	09/11/2021	ND					
Surrogate: 1-Chlorooctane	99.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	103 9	% 38.9-14	2						

## Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/09/2021	Sampling Date:	09/09/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	EAU M9 EMULSION LINE	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: SP 2 @ 2' (H212499-06)

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	09/10/2021	ND	1.88	94.0	2.00	0.282	
Toluene*	<0.050	0.050	09/10/2021	ND	2.05	103	2.00	0.466	
Ethylbenzene*	<0.050	0.050	09/10/2021	ND	2.03	102	2.00	0.0987	
Total Xylenes*	<0.150	0.150	09/10/2021	ND	6.14	102	6.00	0.315	
Total BTEX	<0.300	0.300	09/10/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	09/13/2021	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	09/11/2021	ND	216	108	200	4.42	
DRO >C10-C28*	<10.0	10.0	09/11/2021	ND	221	111	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	09/11/2021	ND					
Surrogate: 1-Chlorooctane	99.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	104 9	38.9-14	2						

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## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/09/2021	Sampling Date:	09/09/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	EAU M9 EMULSION LINE	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: SP 3 @ SURFACE (H212499-07)

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	09/11/2021	ND	1.88	94.0	2.00	0.282	
Toluene*	<0.050	0.050	09/11/2021	ND	2.05	103	2.00	0.466	
Ethylbenzene*	<0.050	0.050	09/11/2021	ND	2.03	102	2.00	0.0987	
Total Xylenes*	<0.150	0.150	09/11/2021	ND	6.14	102	6.00	0.315	
Total BTEX	<0.300	0.300	09/11/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 %	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12200	16.0	09/13/2021	ND	432	108	400	3.77	
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*	62.6	50.0	09/11/2021	ND	216	108	200	4.42	
DRO >C10-C28*	34600	50.0	09/11/2021	ND	221	111	200	4.24	
EXT DRO >C28-C36	7650	50.0	09/11/2021	ND					
Surrogate: 1-Chlorooctane	134 9	44.3-13	3						
Surrogate: 1-Chlorooctadecane	1270	% 38.9-14							

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/09/2021	Sampling Date:	09/09/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	EAU M9 EMULSION LINE	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: SP 2 @ 3' (H212499-08)

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	09/10/2021	ND	1.88	94.0	2.00	0.282	
Toluene*	<0.050	0.050	09/10/2021	ND	2.05	103	2.00	0.466	
Ethylbenzene*	<0.050	0.050	09/10/2021	ND	2.03	102	2.00	0.0987	
Total Xylenes*	<0.150	0.150	09/10/2021	ND	6.14	102	6.00	0.315	
Total BTEX	<0.300	0.300	09/10/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	09/13/2021	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	09/11/2021	ND	216	108	200	4.42	
DRO >C10-C28*	<10.0	10.0	09/11/2021	ND	221	111	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	09/11/2021	ND					
Surrogate: 1-Chlorooctane	96.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	101 9	% 38.9-14	2						

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

Received:	09/09/2021	Sampling Date:	09/09/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	EAU M9 EMULSION LINE	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: SP 3 @ 1' (H212499-09)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	09/10/2021	ND	1.88	94.0	2.00	0.282	
Toluene*	<0.050	0.050	09/10/2021	ND	2.05	103	2.00	0.466	
Ethylbenzene*	<0.050	0.050	09/10/2021	ND	2.03	102	2.00	0.0987	
Total Xylenes*	<0.150	0.150	09/10/2021	ND	6.14	102	6.00	0.315	
Total BTEX	<0.300	0.300	09/10/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1470	16.0	09/13/2021	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	09/11/2021	ND	216	108	200	4.42	
DRO >C10-C28*	<10.0	10.0	09/11/2021	ND	221	111	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	09/11/2021	ND					
Surrogate: 1-Chlorooctane	84.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	88.2	% 38.9-14	2						

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

Received:	09/09/2021	Sampling Date:	09/09/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	EAU M9 EMULSION LINE	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: SP 3 @ 2' (H212499-10)

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	09/11/2021	ND	1.86	92.9	2.00	1.31	
Toluene*	<0.050	0.050	09/11/2021	ND	2.04	102	2.00	1.42	
Ethylbenzene*	<0.050	0.050	09/11/2021	ND	2.01	101	2.00	1.51	
Total Xylenes*	<0.150	0.150	09/11/2021	ND	6.06	101	6.00	1.38	
Total BTEX	<0.300	0.300	09/11/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	09/13/2021	ND	416	104	400	3.92	
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	09/11/2021	ND	216	108	200	4.42	
DRO >C10-C28*	<10.0	10.0	09/11/2021	ND	221	111	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	09/11/2021	ND					
Surrogate: 1-Chlorooctane	96.7	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	101	% 38.9-14	2						

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

Received:	09/09/2021	Sampling Date:	09/09/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	EAU M9 EMULSION LINE	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: SP 4 @ SURFACE (H212499-11)

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	09/11/2021	ND	1.86	92.9	2.00	1.31	
Toluene*	<0.050	0.050	09/11/2021	ND	2.04	102	2.00	1.42	
Ethylbenzene*	<0.050	0.050	09/11/2021	ND	2.01	101	2.00	1.51	
Total Xylenes*	0.349	0.150	09/11/2021	ND	6.06	101	6.00	1.38	
Total BTEX	0.349	0.300	09/11/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	119 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13300	16.0	09/13/2021	ND	416	104	400	3.92	
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	09/11/2021	ND	216	108	200	4.42	
DRO >C10-C28*	7940	50.0	09/11/2021	ND	221	111	200	4.24	
EXT DRO >C28-C36	1990	50.0	09/11/2021	ND					
Surrogate: 1-Chlorooctane	114 9	44.3-13	3						
Surrogate: 1-Chlorooctadecane	342 9	% 38.9-14	2						

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

Received:	09/09/2021	Sampling Date:	09/09/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	EAU M9 EMULSION LINE	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: SP 4 @ 1' (H212499-12)

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	09/11/2021	ND	1.86	92.9	2.00	1.31	
Toluene*	<0.050	0.050	09/11/2021	ND	2.04	102	2.00	1.42	
Ethylbenzene*	<0.050	0.050	09/11/2021	ND	2.01	101	2.00	1.51	
Total Xylenes*	<0.150	0.150	09/11/2021	ND	6.06	101	6.00	1.38	
Total BTEX	<0.300	0.300	09/11/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	10						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	09/13/2021	ND	416	104	400	3.92	
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	09/11/2021	ND	216	108	200	4.42	
DRO >C10-C28*	<10.0	10.0	09/11/2021	ND	221	111	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	09/11/2021	ND					
Surrogate: 1-Chlorooctane	97.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	103	% 38.9-14	(2)						

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

Received:	09/09/2021	Sampling Date:	09/09/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	EAU M9 EMULSION LINE	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: SP 4 @ 2' (H212499-13)

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	09/11/2021	ND	1.86	92.9	2.00	1.31	
Toluene*	<0.050	0.050	09/11/2021	ND	2.04	102	2.00	1.42	
Ethylbenzene*	<0.050	0.050	09/11/2021	ND	2.01	101	2.00	1.51	
Total Xylenes*	<0.150	0.150	09/11/2021	ND	6.06	101	6.00	1.38	
Total BTEX	<0.300	0.300	09/11/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1570	16.0	09/13/2021	ND	416	104	400	3.92	
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	09/11/2021	ND	216	108	200	4.42	
DRO >C10-C28*	10.4	10.0	09/11/2021	ND	221	111	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	09/11/2021	ND					
Surrogate: 1-Chlorooctane	93.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	98.6	% 38.9-14	2						

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

Received:	09/09/2021	Sampling Date:	09/09/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	EAU M9 EMULSION LINE	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: SP 1 @ 3' (H212499-14)

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	09/11/2021	ND	1.86	92.9	2.00	1.31	
Toluene*	<0.050	0.050	09/11/2021	ND	2.04	102	2.00	1.42	
Ethylbenzene*	<0.050	0.050	09/11/2021	ND	2.01	101	2.00	1.51	
Total Xylenes*	<0.150	0.150	09/11/2021	ND	6.06	101	6.00	1.38	
Total BTEX	<0.300	0.300	09/11/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1250	16.0	09/13/2021	ND	416	104	400	3.92	
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	09/11/2021	ND	216	108	200	4.42	
DRO >C10-C28*	115	10.0	09/11/2021	ND	221	111	200	4.24	
EXT DRO >C28-C36	16.1	10.0	09/11/2021	ND					
Surrogate: 1-Chlorooctane	91.7	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	100 9	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/09/2021	Sampling Date:	09/09/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	EAU M9 EMULSION LINE	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: SP 1 @ 4' (H212499-15)

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	09/11/2021	ND	1.86	92.9	2.00	1.31	
Toluene*	<0.050	0.050	09/11/2021	ND	2.04	102	2.00	1.42	
Ethylbenzene*	<0.050	0.050	09/11/2021	ND	2.01	101	2.00	1.51	
Total Xylenes*	<0.150	0.150	09/11/2021	ND	6.06	101	6.00	1.38	
Total BTEX	<0.300	0.300	09/11/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	09/13/2021	ND	416	104	400	3.92	
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	09/11/2021	ND	216	108	200	4.42	
DRO >C10-C28*	40.8	10.0	09/11/2021	ND	221	111	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	09/11/2021	ND					
Surrogate: 1-Chlorooctane	91.7	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	97.4	% 38.9-14	2						

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

Received:	09/09/2021	Sampling Date:	09/09/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	EAU M9 EMULSION LINE	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: SP 4 @ 3' (H212499-16)

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	09/11/2021	ND	1.86	92.9	2.00	1.31	
Toluene*	<0.050	0.050	09/11/2021	ND	2.04	102	2.00	1.42	
Ethylbenzene*	<0.050	0.050	09/11/2021	ND	2.01	101	2.00	1.51	
Total Xylenes*	<0.150	0.150	09/11/2021	ND	6.06	101	6.00	1.38	
Total BTEX	<0.300	0.300	09/11/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	09/13/2021	ND	416	104	400	3.92	
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	09/11/2021	ND	216	108	200	4.42	
DRO >C10-C28*	<10.0	10.0	09/11/2021	ND	221	111	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	09/11/2021	ND					
Surrogate: 1-Chlorooctane	99.2	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	104	% 38.9-14	2						

## Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/09/2021	Sampling Date:	09/09/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	EAU M9 EMULSION LINE	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: SP 4 @ 4' (H212499-17)

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	09/11/2021	ND	1.86	92.9	2.00	1.31	
Toluene*	<0.050	0.050	09/11/2021	ND	2.04	102	2.00	1.42	
Ethylbenzene*	<0.050	0.050	09/11/2021	ND	2.01	101	2.00	1.51	
Total Xylenes*	<0.150	0.150	09/11/2021	ND	6.06	101	6.00	1.38	
Total BTEX	<0.300	0.300	09/11/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	09/13/2021	ND	416	104	400	3.92	
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	09/11/2021	ND	216	108	200	4.42	
DRO >C10-C28*	10.1	10.0	09/11/2021	ND	221	111	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	09/11/2021	ND					
Surrogate: 1-Chlorooctane	96.4	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	101	% 38.9-14	2						

## Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/09/2021	Sampling Date:	09/09/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	EAU M9 EMULSION LINE	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: SP 4 @ 5' (H212499-18)

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	09/11/2021	ND	1.86	92.9	2.00	1.31	
Toluene*	<0.050	0.050	09/11/2021	ND	2.04	102	2.00	1.42	
Ethylbenzene*	<0.050	0.050	09/11/2021	ND	2.01	101	2.00	1.51	
Total Xylenes*	<0.150	0.150	09/11/2021	ND	6.06	101	6.00	1.38	
Total BTEX	<0.300	0.300	09/11/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	09/13/2021	ND	416	104	400	3.92	
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	09/12/2021	ND	216	108	200	1.73	
DRO >C10-C28*	<10.0	10.0	09/12/2021	ND	220	110	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	09/12/2021	ND					
Surrogate: 1-Chlorooctane	95.5	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	99.3	% 38.9-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/09/2021	Sampling Date:	09/09/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	EAU M9 EMULSION LINE	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: SP 1 @ 5' (H212499-19)

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	09/11/2021	ND	1.86	92.9	2.00	1.31	
Toluene*	<0.050	0.050	09/11/2021	ND	2.04	102	2.00	1.42	
Ethylbenzene*	<0.050	0.050	09/11/2021	ND	2.01	101	2.00	1.51	
Total Xylenes*	<0.150	0.150	09/11/2021	ND	6.06	101	6.00	1.38	
Total BTEX	<0.300	0.300	09/11/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 69.9-14	10						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	09/13/2021	ND	416	104	400	3.92	
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	09/12/2021	ND	216	108	200	1.73	
DRO >C10-C28*	<10.0	10.0	09/12/2021	ND	220	110	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	09/12/2021	ND					
Surrogate: 1-Chlorooctane	102	% 44.3-13	3						

## Cardinal Laboratories

## \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **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.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

## aboratories ARC

101 East Marland, Hobbs, NM 88240

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

City: Hoblos

Address:

Project Location: Project Name: Project #: Phone #:

Sampler Name:

FOR LAB USE ONLY

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Lab I.D.

Project Manager: Company Name:

600 and

Brown

P.O. #:

BILL

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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

service. In no event shall Cardinal be liable for incidental Sampler - UPS - Bus - Other: Delivered By: (Circle One) 20301 Spie E0 645 Spl @Surfuel SP2 OSutur 50 102 p2@ Suchue 60 202 P20 CAU Cerec C Sample I.D. mq and any 9 Observed Temp. °C Corrected Temp. °C Chinitsion Fax #: Project Owner: Time: 30 Date: State: UU Zip: SY240 Pate: 9-9-2 Time: † Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com including without shall be de dy for any clain (G)RAB OR (C)OMP G 6 Received By Received By Line # CONTAINERS 00 GROUNDWATER Cool Infact WASTEWATER Sample Condition made in writing and MATRIX SOIL OIL SLUDGE State: City: Fax #: Attn: loss of use, of loss OTHER Phone #: Address: Company: ACID/BASE PRESERV. by Ca CE COOL CHECKED BY: × OTHER (Initials) Ø Zip: within 30 days after to the 9.9 5 DATE a SAMPLING ed by client, its subsidiaries paid by the client for the 1:13 1119 All Results are emailed. Please provide Email 1:17 1:15 **Turnaround Time:** ø Thermometer ID #113 Correction Factor None REMARKS: 1:23 Verbal Result: 104 50 TIME tion of the applicable X × □ Yes Standard Rush × × ×  $\geq$ × KTEX ON D Add'l Phone Bacteria (only) Sample Condition Cool Intact Observed Temp. Yes Yes Nc No Corrected Temp. address: Corrected Temp. °C ĉ

Refinquished By

**Relinquished By** 

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Page 31 of 43

aboratories ARDIN

101 East Marland, Hobbs, NM 88240

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

city: Holdos

Fax #:

Project Location: Project Name: Project #: Phone #:

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Sampler Name:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

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Address

Project Manager: Company Name:

Houke

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P.O. #:

BILL

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ANALYSIS

REQUEST

Attn:

Company:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Observed Temp. °C Corrected Temp. °C Project Owner: Time: 630 State: NUL Zip: & 240 Emulsion Time: 1-9-24 Cardinal cannot accept verbal changes. Please email changes to celey keene@cardinallabsnm.com including withou 6 (G)RAB OR (C)OMP Received By: **Received By** 8 **# CONTAINERS** waived unless made in writing and rec GROUNDWATER line Cool Inflact WASTEWATER Sample Condition MATRIX SOIL OIL SLUDGE Fax #: State: City: loss of use, Address: OTHER Phone #: ACID/BASE PRESERV ed by Cardinal ICE / COOL CHECKED BY: (Initials) SSOL JO OTHER d Zip: within 30 days after completion of the applicable 9.9 to the 2 DATE 2 SAMPLING t by client, its subsidiaries paid by the client for the All Results are emailed. Please provide Email address: 25 **Turnaround Time:** REMARKS: 34:1 11:44 :27 Thermometer ID #113 Correction Factor None Verbal Result: 1:46 1:29 200 TIME 8 X □ Yes Ext.TPH × Standard Rush X 1 × × × K 8 RIE No Add'l Phone #: Bacteria (only) Sample Condition Cool Intact Observed Temp. Yes Yes Corrected Temp. ĉ ô

Received by OCD: 10/28/2021 10:13:32 AM

Relinquished By:

Date:

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

service. In no event shall Cardinal be liable

analyses. All claims LEASE NOTE: Li

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negligence and any other

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Page 32 of 43

Released to Imaging: 3/4/2022 10:05:00 AM



September 14, 2021

JEFFREY BROOM APACHE CORP - HOBBS 2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EAU M9 EMULSION LINE

Enclosed are the results of analyses for samples received by the laboratory on 09/09/21 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	09/09/2021	Sampling Date:	09/09/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	EAU M9 EMULSION LINE	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: H 1 (H212498-01)

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	09/10/2021	ND	1.88	94.0	2.00	0.282	
Toluene*	<0.050	0.050	09/10/2021	ND	2.05	103	2.00	0.466	
Ethylbenzene*	<0.050	0.050	09/10/2021	ND	2.03	102	2.00	0.0987	
Total Xylenes*	<0.150	0.150	09/10/2021	ND	6.14	102	6.00	0.315	
Total BTEX	<0.300	0.300	09/10/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID 102 % 65		% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/13/2021	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	09/11/2021	ND	218	109	200	3.95	
DRO >C10-C28*	<10.0	10.0	09/11/2021	ND	220	110	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	09/11/2021	ND					
Surrogate: 1-Chlorooctane	90.8	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	89.0	% 38.9-14	2						

## Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/09/2021	Sampling Date:	09/09/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	EAU M9 EMULSION LINE	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: H 2 (H212498-02)

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	09/10/2021	ND	1.88	94.0	2.00	0.282	
Toluene*	<0.050	0.050	09/10/2021	ND	2.05	103	2.00	0.466	
Ethylbenzene*	<0.050	0.050	09/10/2021	ND	2.03	102	2.00	0.0987	
Total Xylenes*	<0.150	0.150	09/10/2021	ND	6.14	102	6.00	0.315	
Total BTEX	<0.300	0.300	09/10/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID 101 % 69.9-		% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	09/13/2021	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	09/11/2021	ND	216	108	200	4.42	
DRO >C10-C28*	41.4	10.0	09/11/2021	ND	221	111	200	4.24	
EXT DRO >C28-C36	11.0	10.0	09/11/2021	ND					
Surrogate: 1-Chlorooctane	105	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	111 9	% 38.9-14	2						

## Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/09/2021	Sampling Date:	09/09/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	EAU M9 EMULSION LINE	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: H 3 (H212498-03)

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	09/10/2021	ND	1.88	94.0	2.00	0.282	
Toluene*	<0.050	0.050	09/10/2021	ND	2.05	103	2.00	0.466	
Ethylbenzene*	<0.050	0.050	09/10/2021	ND	2.03	102	2.00	0.0987	
Total Xylenes*	<0.150	0.150	09/10/2021	ND	6.14	102	6.00	0.315	
Total BTEX	<0.300	0.300	09/10/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID 101 % 69.9-		% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/13/2021	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	09/11/2021	ND	216	108	200	4.42	
DRO >C10-C28*	<10.0	10.0	09/11/2021	ND	221	111	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	09/11/2021	ND					
Surrogate: 1-Chlorooctane	86.2	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	90.9	% 38.9-14	2						

## Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/09/2021	Sampling Date:	09/09/2021
Reported:	09/14/2021	Sampling Type:	Soil
Project Name:	EAU M9 EMULSION LINE	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

## Sample ID: H 4 (H212498-04)

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	09/10/2021	ND	1.88	94.0	2.00	0.282	
Toluene*	<0.050	0.050	09/10/2021	ND	2.05	103	2.00	0.466	
Ethylbenzene*	<0.050	0.050	09/10/2021	ND	2.03	102	2.00	0.0987	
Total Xylenes*	<0.150	0.150	09/10/2021	ND	6.14	102	6.00	0.315	
Total BTEX	<0.300	0.300	09/10/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID 101 % 69.9-14		0							
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/13/2021	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	09/11/2021	ND	216	108	200	4.42	
DRO >C10-C28*	<10.0	10.0	09/11/2021	ND	221	111	200	4.24	
EXT DRO >C28-C36	<10.0	10.0	09/11/2021	ND					
Surrogate: 1-Chlorooctane	94.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	<i>99.3</i>	% 38.9-14	2						

## Cardinal Laboratories

## \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Relinquished By:	PLEASE NOTE: Liability and Damages. Ca analyses. All claims including those for neg service. In no event shall Cardinal be liable		4 44	24 12 CH 12	IH / HI	Lab I.D.	FOR LAB USE ONLY	Project Location:	Project Warne:	Phone #:	city: Holdos	Address:	Project Manager:	Company Name: VD,	101 Ea
her: Correcte	12/20	rdinal's liability and client's vigence and any other cause of the consequent of the		<u>o</u>	22	0	G)RAB OR (C)OM		the ma Emulsion		Fax #: Project Owner:	NV:		T Brown	(575) 393-2326 FAX (575) 393-2476	aboratories 101 East Marland, Hobbs, NM 88240
6. 8 Sample Condition Cool Intact □ Ves Vres □ No □ No	Received By:	im arising whether based in cor ed waived unless made in writin out limitation, business interrupti al reeardless of whether such		- - -	× >	- *	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE;	MATRIX	Fax	State:	City:	Zip: XOU Attn:	Company:	P.O. #:		
CHECKED BY: Turn (Initials) Ther Corr	Matty	trad of tort, shall be limited to the amount paid by the client g and received by Cardinal within 30 days after completion one, loss of use, or loss of profits incurred by client, its subsi Jaim is based upon any of #.o above stoled inear ons or othe			x q-q 2:50	96		PRESERV. SAMPLING	#	Zip:	00	0	any:		BILL TO	
Turnaround Time: Standard Rush Thermometer ID #113 Correction Factor None	Verbal Result: ⊔ Yes ⊔ No All Results are emailed. Please pr REMARKS:	ie applicable s,		XXX	x x X 7	< x < x	TIME C/ EX+TPH BTEX	1	I							
Bacteria (only) S Cool Intact Yes Nc No	are emailed. Please provide Email address: ::	1 1				•			1						ANALYSIS REQUEST	
ample Condition Observed Temp. °C Corrected Temp. °C									2 2 2							

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## Released to Imaging: 3/4/2022 10:05:00 AM



EAU M-9 Emulsion Trunk Line nAPP2121456443

Revegetation And Noxious Weed Plan

## **Revegetation Plan:**

All the disturbed area in the pasture will be properly prepared and reseeded with BLM # 2. The disturbed area will be monitored to ensure successful revegetation is achieved. If revegetation is not successful after a couple of growing seasons the site will be reseeded.

## **Noxious Weed Plan:**

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

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State of New Mexico Oil Conservation Division

Incident ID	NAPP2121456443
District RP	
Facility ID	
Application ID	

## **Remediation Plan**

<u>Remediation Plan Checklist</u> : Each of the following item	is must be included in the plan.	
Detailed description of proposed remediation technique	6	
Scaled sitemap with GPS coordinates showing delineat	tion points	
Estimated volume of material to be remediated		
Closure criteria is to Table 1 specifications subject to 1 Proposed schedule for remediation (note if remediation	9.15.29.12(C)(4) NMAC	approval is required)
	i plan amerine is more man 50 days OCL	approval is required)
Deferral Requests Only: Each of the following items mu	ist he confirmed as part of any request f	or deferral of remediation
Contamination must be in areas immediately under or a deconstruction.	around production equipment where reme	ediation could cause a major facility
Extents of contamination must be fully delineated.		
Contamination does not cause an imminent risk to hum	on booth the environment or environment	
	an nearth, the environment, or groundwa	
I hereby certify that the information given above is true and	complete to the best of my knowledge	and understand that surguest to OCD
rules and regulations all operators are required to report and	d/or file certain release notifications and	perform corrective actions for release
which may endanger public health or the environment. The	e acceptance of a C-141 report by the OC	D does not relieve the operator of
liability should their operations have failed to adequately in	vestigate and remediate contamination the	hat pose a threat to groundwater
surface water, human health or the environment. In additio responsibility for compliance with any other federal, state,	on, OCD acceptance of a C-141 report do	es not relieve the operator of
Printed Name: Larry Baker	Title: Environmental T	ech. SR.
Signature: Yany Baher	Date: 10/2/2021	
email: larry.baker@apachecorp.com	Telephone: 432-631-698	32
	Telephone: <u>TOL COT COC</u>	
OCD Only		
OCD Only Received by: Robert Hamlet	Date: 3/4/2022	
Received by: Robert Hamlet		
D 1 J J		Deferral Approved
Received by: Robert Hamlet		Deferral Approved

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

	А	Action Type: [C-141] Release Corrective Action (C-141)
Midland, TX 79705		58359
303 Veterans Airpark Ln	A	Action Number:
APACHE CORPORATION		873
Operator:	c	OGRID:

CONDITIONS

Created By Condition Condition Date The Workplan/Remediation Plan is approved with the following conditions: Sidewall/floor samples need to comply with the strictest closure criteria limits 600 3/4/2022 rhamlet mg/kg for Chlorides and 100 mg/kg TPH. The variance for 500 ft2 confirmation floor samples is approved. Please collect confirmation sidewall samples, representing no more than 200 ft2. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. The work will need to occur in 90 days after the work plan has been approved.

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Action 58359