303 Veterans Airpark Lane Midland, TX 79705

Remediation Plan

July 11, 2023

Re: EAU C-37
Case nAPP2306042664

Background:

On 2/20/2023 a release occurred due internal corrosion on 2-inch steel flow line. The release (GPS: 32.802643, -104.148154) is located east of Artesia, New Mexico in unit letter K section 26 township 17S range 28E. A bore hole was advanced to 115 feet on the lease pad north of the release area. The bore hole was left open for 72 hours. The bore hole was dry at a depth of 115 feet.

On 3/29 and 3/30/2023 vertical delineation was conducted to depth of 3 to 5 feet. 5-point horizontal composite samples were collected not to exceed 200 square feet to determine the horizontal extent of the release. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Laboratory analysis were above table one standards for TPH at SP 1 and SP2. On 4/17/2023 SP 1 was further delineated to a depth of 15 feet and SP 2 was further delineated to a depth of 7 feet. All samples collected were submitted to a commercial laboratory for analysis of TPH and BTEX. Laboratory results were above table one standards for TPH at SP 1. On 4/28/2023 SP1 was further delineated to a depth of 21 feet. All samples collected were submitted to a commercial laboratory for analysis of TPH and BTEX. Laboratory analysis were above table one standards for TPH. On 6/15/2023 split spoon samples were collected to a depth of 40 feet in SP1. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX.

Remediation Plan:

Apache Corporation proposes that the release area around SP1 be excavated to a depth of 22 to 25 feet. The area around SP2 will be excavated to a depth of 4 to 5 feet. The area around SP 3 and SP 4 will be excavated to a depth of 3 feet. Final 5-point bottom and 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. The excavated soil (1175 yards) will be hauled to an OCD approved disposal facility. Once analytical data is below table one standards for release greater than 100 feet to groundwater and the top four feet meets the reclamation standards the excavation will be backfilled with clean imported topsoil to ground surface and contoured to the surrounding area. The disturbed area will be reseeded with a blend of native seed mixture. The remediation will be completed within 90 days of OCD approval of the plan.

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

Submitted by.

Larry Baker

Environmental Technician Sr. Staff
larry.baker@apachecorp.com
Office # 432-818-1654
Cell# 432-250-8384

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2306042664
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?	115 (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 vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

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

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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2306042664
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Larry Baker Title: Environmental Tech Sr. Staff

Signature: Larry Baker Date: 7/11/2023

email: larry.baker@apachecorp.com Telephone: 432-818-1654

OCD Only

Received by: Shelly Wells Date: 7/12/2023

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2306042664
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- ☑ Detailed description of proposed remediation technique
- ☑ Scaled sitemap with GPS coordinates showing delineation points
- ☑ Estimated volume of material to be remediated
- ☑ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☑ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Larry Baker Title: Environmental Tech Sr. Staff

Signature: Larry Baker Date: 7/11/2023

email: larry.baker@apachecorp.com Telephone: 432-818-1654

OCD Only

Received by: Shelly Wells Date: 7/12/2023

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

Signature: _____ Date: _____

Coordinates

Please Select a Coordinate System and enter the coordinates:

GCS_WGS_1984

32.802643 -104.148154 Show

Lat: 32.786698, Long: -104.181542 (WGS 84)

Figure 2 - Aerial Map Showing Bore Hole Location

BORING RECORD

Start: 10:30
Finish: 12:00

GEOLOGIC UNIT	DEPTH	DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG
	0	Caliche Pad	Caliche	
	5			
	10	Sand, 7.5YR 7/3, Pink, Fine to Medium Grained Quartz Sand, Poorly Sorted, Angular to Subangular	SW	
	15			
	20		SW	
	25	Sand 5YR 5/3, Reddish Brown, Fine to Medium Grained Quartz Sand, Poorly Sorted, Subangular to Subrounded with Caliche Clasts (5-10mm)		
	30			
	35	Gravelly Sand 5YR 5/4, Reddish Brown, Coarse Gravel to Fine Grained Quartz Sand, Poorly Sorted, Subangular to Subrounded	SP	
	40			
	50	Sand 5YR 4/4, Reddish Brown, Fine to Medium Grained Quartz Sand, Moderately Sorted, Subangular to Subrounded	SW	
		Water Injected at 50'		
	60			
	70			
	80			
	90		SW	

PID READING
PPM X _____
2 4 6 8 10 12 14 16 18

SAMPLE
NUMBER | PID READING | RECOVERY | DEPTH

REMARKS
BACKGROUND PID READING
SOIL : _____ PPM
SOIL : _____ PPM

DEPTH: 1, 5, 10, 15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90

ONE CONTINUOUS AUGER SAMPLER
STANDARD PENETRATION TEST
UNDISTURBED SAMPLE
WATER TABLE (24 HRS)
WATER TABLE (TIME OF BORING)
LABORATORY TEST LOCATION
PENETROMETER (TONS/ SQ. FT)
NR NO RECOVERY

JOB NUMBER : Apache/ 23-0113-01
HOLE DIAMETER : 5 "
LOCATION : EAU 37(32°48'09.86"N, 104°08'52.74"W)
LAI GEOLOGIST : D. St.Germain
DRILLING CONTRACTOR : SDI
DRILLING METHOD : Air Rotary

Larson & Associates, Inc. Environmental Consultants

DRILL DATE : 6/15/2023

BORING NUMBER : BH-1

BORING RECORD

GEOLOGIC UNIT	DEPTH	Start: 10:30 Finish: 12:00 DESCRIPTION LITHOLOGIC	DESCRIPTION USCS	GRAPHIC LOG	PID READING PPM X ____ (2 4 6 8 10 12 14 16 18)	SAMPLE NUMBER	SAMPLE PID READING	SAMPLE RECOVERY	SAMPLE DEPTH	REMARKS BACKGROUND PID READING SOIL : ____ PPM SOIL : ____ PPM
	70									
	75		SW						75	
	80								80	
	85								85	
	90								90	
	95								95	
	100		SW						100	
	105								105	
	110								110	
	115	TD: 115' *Dry after 72 hours*							115	
	120								120	
	125								125	
	130								130	

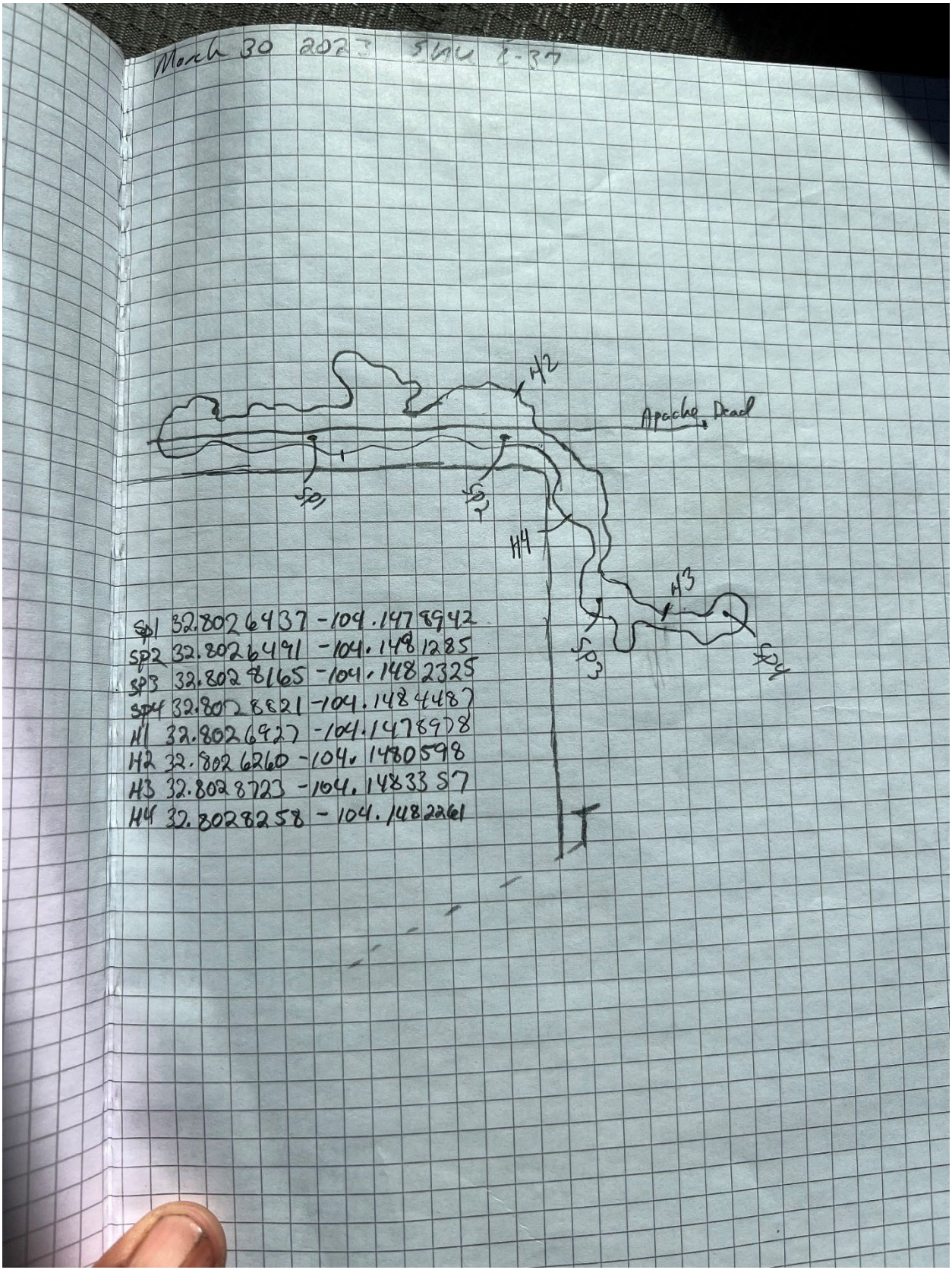
ONE CONTINUOUS AUGER SAMPLER
STANDARD PENETRATION TEST
UNDISTURBED SAMPLE
WATER TABLE (24 HRS)
WATER TABLE (TIME OF BORING)
L LABORATORY TEST LOCATION
\+ PENETROMETER (TONS/ SQ. FT)
NR NO RECOVERY

JOB NUMBER : Apache/ 23-0113-01
HOLE DIAMETER : 5"
LOCATION : EAU 37 (32°48'09.86"N, 104°08'52.74"W)
LAI GEOLOGIST : D. St.Germain
DRILLING CONTRACTOR : SDI
DRILLING METHOD : Air Rotary

Larson & Associates, Inc. Environmental Consultants

DRILL DATE : 6/15/2023

BORING NUMBER : BH-1


March 30 2023 SWD 1-37
H2
Apache Dead
SP1
SP2
H4
H3
SP3
SP4
SP1 32.8026437 -104.1478942
SP2 32.8026491 -104.1481285
SP3 32.8028165 -104.1482325
SP4 32.8028821 -104.1484487
H1 32.8026927 -104.1478978
H2 32.8026260 -104.1480598
H3 32.8028723 -104.1483387
H4 32.8028258 -104.1482261

Delineation Samples

Sample Date	Sample ID	Depth	Chloride Lab	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO
3/29/2023	SP1	Surface	5840	3.06	49.5	80.50	150	283	4,700	27300	4550
		1'	3000	13	127	96.1	232	468	4,470	12500	2260
		2'	2520	2.67	38.5	42	107	190	1,600	5450	844
		3'	1700	3.34	34.5	29.1	94	161	1,700	11400	1670
		4'	560	<1.00	3.95	5.47	61.1	70.5	1,460	6090	801
		5'	224	<1.00	2.88	5.91	44	52.8	1,380	5890	871
4/17/2023		7'		<1.00	4.73	7.75	48.6	61.1	1,250	7410	1080
		9'		<1.00	13	23.4	109	145	1,960	7100	1010
		11'		<1.00	19.2	36.2	159	215	2,180	6430	1100
		13'		0.114	3.75	6.7	24.9	35.4	437	1480	218
		15'		<2.00	64.3	104	337	506	1,050	2390	414
4/28/2023		17'		<0.500	11.6	27	91	130	1,430	4370	697
		19'		<0.050	1.06	4.48	22	27.5	455	2190	354
		21'		<0.200	15.6	31	98.5	145	1,260	3600	541
6/15/2023		25'	3190	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<50.0	<50.0	<50.0
		30'	3740	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<49.9	<49.9	<49.9
		35'	2770	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<49.9	<49.9	<49.9
		40'	194	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0
3/29/2023	SP2	Surface	19200	3.42	50.9	81.4	151	287	5,580	34200	5110
		1'	2600	1.13	26.4	46.3	123	197	3,200	15500	2150
		2'	1230	<1.00	20.4	34.8	102	157	2,270	11000	1330
		3'	48	<1.00	17.2	25	71.8	114	1,800	7030	844
4/17/2023		5'		<0.050	<0.050	0.083	0.323	0.406	<10.0	66.9	17.4
		7'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	11.8	<10.0
3/30/2023	SP3	Surface	12000	1.12	13.6	27.3	54.1	96.2	3,330	42300	8500
		1'	496	1	22.9	35.6	94.8	154	2,700	11200	1760
		2'	64	13.1	88.2	75.7	177	354	3,850	8750	1270
		3'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
		4'	96.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	10.6	<10.0
3/30/2023	SP4	Surface	160	<1.00	3.19	20.7	72.5	96.4	3,450	58200	9850
		1'	48	<0.050	<0.050	0.201	0.901	1.12	17.1	171	12.6
		2'	32	<0.050	<0.050	<0.050	0.248	<0.300	11	277	42.1
		3'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
3/30/2023	H1	0-6"	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
	H2	0-6"	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
	H3	0-6"	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
	H4	0-6"	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0

CARDINAL Laboratories

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

April 04, 2023

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EAU C - 37

Enclosed are the results of analyses for samples received by the laboratory on 03/29/23 16:50.

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

Cardinal Laboratories is 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. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	03/29/2023	Sampling Date:	03/29/2023
Reported:	04/04/2023	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 SURFACE (H231453-01)

BTEX 8021B mg/kg Analyzed By: JH/ S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**3.06**	1.00	03/31/2023	ND	2.14	107	2.00	6.99	
Toluene*	**49.5**	1.00	03/31/2023	ND	2.19	109	2.00	7.52	
Ethylbenzene*	**80.5**	1.00	03/31/2023	ND	2.14	107	2.00	5.61	
Total Xylenes*	**150**	3.00	03/31/2023	ND	6.63	110	6.00	3.86	
Total BTEX	**283**	6.00	03/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *161 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**5840**	16.0	04/03/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**4700**	100	03/31/2023	ND	169	84.7	200	0.381	
DRO >C10-C28*	**27300**	100	03/31/2023	ND	184	92.0	200	8.26	
EXT DRO >C28-C36	**4550**	100	03/31/2023	ND					

Surrogate: 1-Chlorooctane *732 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *528 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	03/29/2023	Sampling Date:	03/29/2023
Reported:	04/04/2023	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 1' (H231453-02)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**13.0**	1.00	03/31/2023	ND	2.14	107	2.00	6.99	
Toluene*	**127**	1.00	03/31/2023	ND	2.19	109	2.00	7.52	
Ethylbenzene*	**96.1**	1.00	03/31/2023	ND	2.14	107	2.00	5.61	
Total Xylenes*	**232**	3.00	03/31/2023	ND	6.63	110	6.00	3.86	
Total BTEX	**468**	6.00	03/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *131 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**3000**	16.0	04/03/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**4470**	50.0	03/31/2023	ND	169	84.7	200	0.381	
DRO >C10-C28*	**12500**	50.0	03/31/2023	ND	184	92.0	200	8.26	
EXT DRO >C28-C36	**2260**	50.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane *347 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *285 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	03/29/2023	Sampling Date:	03/29/2023
Reported:	04/04/2023	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 2' (H231453-03)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**2.67**	1.00	03/31/2023	ND	2.14	107	2.00	6.99	
Toluene*	**38.5**	1.00	03/31/2023	ND	2.19	109	2.00	7.52	
Ethylbenzene*	**42.0**	1.00	03/31/2023	ND	2.14	107	2.00	5.61	
Total Xylenes*	**107**	3.00	03/31/2023	ND	6.63	110	6.00	3.86	
Total BTEX	**190**	6.00	03/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *124 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2520**	16.0	04/03/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**1600**	50.0	03/31/2023	ND	169	84.7	200	0.381	
DRO >C10-C28*	**5450**	50.0	03/31/2023	ND	184	92.0	200	8.26	
EXT DRO >C28-C36	**844**	50.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane *227 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *177 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	03/29/2023	Sampling Date:	03/29/2023
Reported:	04/04/2023	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 3' (H231453-04)

BTEX 8021B mg/kg Analyzed By: JH/ S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**3.34**	1.00	03/31/2023	ND	2.14	107	2.00	6.99	
Toluene*	**34.5**	1.00	03/31/2023	ND	2.19	109	2.00	7.52	
Ethylbenzene*	**29.1**	1.00	03/31/2023	ND	2.14	107	2.00	5.61	
Total Xylenes*	**94.0**	3.00	03/31/2023	ND	6.63	110	6.00	3.86	
Total BTEX	**161**	6.00	03/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *149 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1700**	16.0	04/03/2023	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**2580**	50.0	03/31/2023	ND	169	84.7	200	0.381	
DRO >C10-C28*	**11400**	50.0	03/31/2023	ND	184	92.0	200	8.26	
EXT DRO >C28-C36	**1670**	50.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane *421 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *251 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	03/29/2023	Sampling Date:	03/29/2023
Reported:	04/04/2023	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 4' (H231453-05)

BTEX 8021B mg/kg Analyzed By: JH/ S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	03/31/2023	ND	2.14	107	2.00	6.99	
Toluene*	**3.95**	1.00	03/31/2023	ND	2.19	109	2.00	7.52	
Ethylbenzene*	**5.47**	1.00	03/31/2023	ND	2.14	107	2.00	5.61	
Total Xylenes*	**61.1**	3.00	03/31/2023	ND	6.63	110	6.00	3.86	
Total BTEX	**70.5**	6.00	03/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *140 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**560**	16.0	04/03/2023	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**1460**	50.0	03/31/2023	ND	169	84.7	200	0.381	
DRO >C10-C28*	**6090**	50.0	03/31/2023	ND	184	92.0	200	8.26	
EXT DRO >C28-C36	**801**	50.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane *286 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *169 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	03/29/2023	Sampling Date:	03/29/2023
Reported:	04/04/2023	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 SURFACE (H231453-06)

BTEX 8021B mg/kg Analyzed By: JH/ S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**3.42**	1.00	03/31/2023	ND	2.14	107	2.00	6.99	
Toluene*	**50.9**	1.00	03/31/2023	ND	2.19	109	2.00	7.52	
Ethylbenzene*	**81.4**	1.00	03/31/2023	ND	2.14	107	2.00	5.61	
Total Xylenes*	**151**	3.00	03/31/2023	ND	6.63	110	6.00	3.86	
Total BTEX	**287**	6.00	03/31/2023	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**19200**	16.0	04/03/2023	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**5580**	50.0	03/31/2023	ND	169	84.7	200	0.381	
DRO >C10-C28*	**34200**	50.0	03/31/2023	ND	184	92.0	200	8.26	
EXT DRO >C28-C36	**5110**	50.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane *509 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *634 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	03/29/2023	Sampling Date:	03/29/2023
Reported:	04/04/2023	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 1' (H231453-07)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**1.13**	1.00	03/31/2023	ND	2.14	107	2.00	6.99	
Toluene*	**26.4**	1.00	03/31/2023	ND	2.19	109	2.00	7.52	
Ethylbenzene*	**46.3**	1.00	03/31/2023	ND	2.14	107	2.00	5.61	
Total Xylenes*	**123**	3.00	03/31/2023	ND	6.63	110	6.00	3.86	
Total BTEX	**197**	6.00	03/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *131 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**2600**	16.0	04/03/2023	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**3200**	50.0	03/31/2023	ND	169	84.7	200	0.381	
DRO >C10-C28*	**15500**	50.0	03/31/2023	ND	184	92.0	200	8.26	
EXT DRO >C28-C36	**2150**	50.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane *529 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *281 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	03/29/2023	Sampling Date:	03/29/2023
Reported:	04/04/2023	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 2' (H231453-08)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	03/31/2023	ND	2.14	107	2.00	6.99	
Toluene*	**20.4**	1.00	03/31/2023	ND	2.19	109	2.00	7.52	
Ethylbenzene*	**34.8**	1.00	03/31/2023	ND	2.14	107	2.00	5.61	
Total Xylenes*	**102**	3.00	03/31/2023	ND	6.63	110	6.00	3.86	
Total BTEX	**157**	6.00	03/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *125 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1230**	16.0	04/03/2023	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**2270**	50.0	03/31/2023	ND	169	84.7	200	0.381	
DRO >C10-C28*	**11000**	50.0	03/31/2023	ND	184	92.0	200	8.26	
EXT DRO >C28-C36	**1330**	50.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane *402 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *233 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	03/29/2023	Sampling Date:	03/29/2023
Reported:	04/04/2023	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 3' (H231453-09)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	03/31/2023	ND	2.14	107	2.00	6.99	
Toluene*	**17.2**	1.00	03/31/2023	ND	2.19	109	2.00	7.52	
Ethylbenzene*	**25.0**	1.00	03/31/2023	ND	2.14	107	2.00	5.61	
Total Xylenes*	**71.8**	3.00	03/31/2023	ND	6.63	110	6.00	3.86	
Total BTEX	**114**	6.00	03/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *121 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	04/03/2023	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**1800**	50.0	03/31/2023	ND	169	84.7	200	0.381	
DRO >C10-C28*	**7030**	50.0	03/31/2023	ND	184	92.0	200	8.26	
EXT DRO >C28-C36	**844**	50.0	03/31/2023	ND					

Surrogate: 1-Chlorooctane *313 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *197 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	03/29/2023	Sampling Date:	03/29/2023
Reported:	04/04/2023	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 5' (H231453-10)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	03/31/2023	ND	2.14	107	2.00	6.99	
Toluene*	**2.88**	1.00	03/31/2023	ND	2.19	109	2.00	7.52	
Ethylbenzene*	**5.91**	1.00	03/31/2023	ND	2.14	107	2.00	5.61	
Total Xylenes*	**44.0**	3.00	03/31/2023	ND	6.63	110	6.00	3.86	
Total BTEX	**52.8**	6.00	03/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *126 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**224**	16.0	04/03/2023	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**1380**	10.0	03/30/2023	ND	213	107	200	4.54	QM-07, QR-03
DRO >C10-C28*	**5890**	10.0	03/30/2023	ND	214	107	200	9.57	QM-07
EXT DRO >C28-C36	**871**	10.0	03/30/2023	ND					

Surrogate: 1-Chlorooctane *209 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *161 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

		BILL TO	
Company Name:	Apache	P.O. #:	
Project Manager:	B. Baker	Company:	
Address:		Attn:	
City:	Hobbs	State: NM Zip: 88240	Address:
Phone #:	Fax #:	City:	
Project #:	Project Owner:	State: Zip:	
Project Name:		Phone #:	
Project Location:	EAU C-37	Fax #:	
Sampler Name:	Jose Rosales		

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	Cl	BTEX	EXT TPH
H231453																	
1	Spl surface	G	1			1					1		3/29	2:54			
2	Spl 1'	G	1			1					1			2:58			
3	Spl 2'	G	1			1					1			3:00			
4	Spl 3'	G	1			1					1			3:02			
5	Spl 4'	G	1			1					1			3:04			
6	Sp2 surface	G	1			1					1			3:06			
7	Sp2 1'	G	1			1					1			3:08			
8	Sp2 2'	G	1			1					1			3:10			
9	Sp2 3'	G	1			1					1			3:12			
10	Sp1 5'	G	1			1					1			3:14			

Relinquished By: Jose Rosales	Date: 3/29/23 Time: 4:56 pm	Received By: Tamara Oldham	Verbal Result: ☐ Yes ☐ No	Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	All Results are emailed. Please provide Email address:	
			REMARKS: E-Mail Results	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 3.3 Corrected Temp. °C 2.7	Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials) TO	Turnaround Time: Standard ☑ Rush ☐ Thermometer ID #113 Correction Factor None
				Bacteria (only) Sample Condition Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.1 06/04/20

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

CARDINAL Laboratories

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

April 04, 2023

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EAU C - 37

Enclosed are the results of analyses for samples received by the laboratory on 03/30/23 16:30.

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

Cardinal Laboratories is 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. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	03/30/2023	Sampling Date:	03/30/2023
Reported:	04/04/2023	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: H 1 (H231487-01)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2023	ND	1.98	99.0	2.00	3.89	
Toluene*	<0.050	0.050	04/01/2023	ND	2.04	102	2.00	3.58	
Ethylbenzene*	<0.050	0.050	04/01/2023	ND	2.07	103	2.00	4.83	
Total Xylenes*	<0.150	0.150	04/01/2023	ND	6.21	104	6.00	4.89	
Total BTEX	<0.300	0.300	04/01/2023	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	04/03/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2023	ND	178	89.0	200	7.79	
DRO >C10-C28*	<10.0	10.0	04/01/2023	ND	207	104	200	7.02	
EXT DRO >C28-C36	<10.0	10.0	04/01/2023	ND					

Surrogate: 1-Chlorooctane *99.1 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *114 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	03/30/2023	Sampling Date:	03/30/2023
Reported:	04/04/2023	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: H 2 (H231487-02)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2023	ND	1.98	99.0	2.00	3.89	
Toluene*	<0.050	0.050	04/01/2023	ND	2.04	102	2.00	3.58	
Ethylbenzene*	<0.050	0.050	04/01/2023	ND	2.07	103	2.00	4.83	
Total Xylenes*	<0.150	0.150	04/01/2023	ND	6.21	104	6.00	4.89	
Total BTEX	<0.300	0.300	04/01/2023	ND					

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

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	04/03/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2023	ND	178	89.0	200	7.79	
DRO >C10-C28*	<10.0	10.0	04/01/2023	ND	207	104	200	7.02	
EXT DRO >C28-C36	<10.0	10.0	04/01/2023	ND					

Surrogate: 1-Chlorooctane *96.8 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *111 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	03/30/2023	Sampling Date:	03/30/2023
Reported:	04/04/2023	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: H 3 (H231487-03)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2023	ND	1.98	99.0	2.00	3.89	
Toluene*	<0.050	0.050	04/01/2023	ND	2.04	102	2.00	3.58	
Ethylbenzene*	<0.050	0.050	04/01/2023	ND	2.07	103	2.00	4.83	
Total Xylenes*	<0.150	0.150	04/01/2023	ND	6.21	104	6.00	4.89	
Total BTEX	<0.300	0.300	04/01/2023	ND					

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

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	04/03/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2023	ND	178	89.0	200	7.79	
DRO >C10-C28*	<10.0	10.0	04/01/2023	ND	207	104	200	7.02	
EXT DRO >C28-C36	<10.0	10.0	04/01/2023	ND					

Surrogate: 1-Chlorooctane *99.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *109 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	03/30/2023	Sampling Date:	03/30/2023
Reported:	04/04/2023	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: H 4 (H231487-04)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2023	ND	1.98	99.0	2.00	3.89	
Toluene*	<0.050	0.050	04/01/2023	ND	2.04	102	2.00	3.58	
Ethylbenzene*	<0.050	0.050	04/01/2023	ND	2.07	103	2.00	4.83	
Total Xylenes*	<0.150	0.150	04/01/2023	ND	6.21	104	6.00	4.89	
Total BTEX	<0.300	0.300	04/01/2023	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	04/03/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2023	ND	210	105	200	7.61	
DRO >C10-C28*	<10.0	10.0	04/01/2023	ND	214	107	200	7.41	
EXT DRO >C28-C36	<10.0	10.0	04/01/2023	ND					

Surrogate: 1-Chlorooctane *110 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *112 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	03/30/2023	Sampling Date:	03/30/2023
Reported:	04/04/2023	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 3 SURFACE (H231487-05)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**1.12**	1.00	04/01/2023	ND	1.98	99.0	2.00	3.89	
Toluene*	**13.6**	1.00	04/01/2023	ND	2.04	102	2.00	3.58	
Ethylbenzene*	**27.3**	1.00	04/01/2023	ND	2.07	103	2.00	4.83	
Total Xylenes*	**54.1**	3.00	04/01/2023	ND	6.21	104	6.00	4.89	
Total BTEX	**96.2**	6.00	04/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *106 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**12000**	16.0	04/03/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**3330**	50.0	04/01/2023	ND	210	105	200	7.61	
DRO >C10-C28*	**42300**	50.0	04/01/2023	ND	214	107	200	7.41	
EXT DRO >C28-C36	**8500**	50.0	04/01/2023	ND					

Surrogate: 1-Chlorooctane *467 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *914 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	03/30/2023	Sampling Date:	03/30/2023
Reported:	04/04/2023	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 1' (H231487-06)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**1.00**	1.00	04/01/2023	ND	1.98	99.0	2.00	3.89	
Toluene*	**22.9**	1.00	04/01/2023	ND	2.04	102	2.00	3.58	
Ethylbenzene*	**35.6**	1.00	04/01/2023	ND	2.07	103	2.00	4.83	
Total Xylenes*	**94.8**	3.00	04/01/2023	ND	6.21	104	6.00	4.89	
Total BTEX	**154**	6.00	04/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *107 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**496**	16.0	04/03/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**2700**	50.0	04/01/2023	ND	210	105	200	7.61	
DRO >C10-C28*	**11200**	50.0	04/01/2023	ND	214	107	200	7.41	
EXT DRO >C28-C36	**1760**	50.0	04/01/2023	ND					

Surrogate: 1-Chlorooctane *291 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *238 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	03/30/2023	Sampling Date:	03/30/2023
Reported:	04/04/2023	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 2' (H231487-07)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**13.1**	1.00	04/01/2023	ND	1.98	99.0	2.00	3.89	
Toluene*	**88.2**	1.00	04/01/2023	ND	2.04	102	2.00	3.58	
Ethylbenzene*	**75.7**	1.00	04/01/2023	ND	2.07	103	2.00	4.83	
Total Xylenes*	**177**	3.00	04/01/2023	ND	6.21	104	6.00	4.89	
Total BTEX	**354**	6.00	04/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *112 %* *71.5-134*

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	04/03/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**3850**	50.0	04/01/2023	ND	210	105	200	7.61	
DRO >C10-C28*	**8750**	50.0	04/01/2023	ND	214	107	200	7.41	
EXT DRO >C28-C36	**1270**	50.0	04/01/2023	ND					

Surrogate: 1-Chlorooctane *277 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *208 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	03/30/2023	Sampling Date:	03/30/2023
Reported:	04/04/2023	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 3' (H231487-08)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2023	ND	1.98	99.0	2.00	3.89	
Toluene*	<0.050	0.050	04/03/2023	ND	2.04	102	2.00	3.58	
Ethylbenzene*	<0.050	0.050	04/03/2023	ND	2.07	103	2.00	4.83	
Total Xylenes*	<0.150	0.150	04/03/2023	ND	6.21	104	6.00	4.89	
Total BTEX	<0.300	0.300	04/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *106 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	04/03/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2023	ND	210	105	200	7.61	
DRO >C10-C28*	<10.0	10.0	04/01/2023	ND	214	107	200	7.41	
EXT DRO >C28-C36	<10.0	10.0	04/01/2023	ND					

Surrogate: 1-Chlorooctane *107 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *110 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	03/30/2023	Sampling Date:	03/30/2023
Reported:	04/04/2023	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 4' (H231487-09)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2023	ND	1.98	99.0	2.00	3.89	
Toluene*	<0.050	0.050	04/03/2023	ND	2.04	102	2.00	3.58	
Ethylbenzene*	<0.050	0.050	04/03/2023	ND	2.07	103	2.00	4.83	
Total Xylenes*	<0.150	0.150	04/03/2023	ND	6.21	104	6.00	4.89	
Total BTEX	<0.300	0.300	04/03/2023	ND					

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

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	04/03/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2023	ND	210	105	200	7.61	
DRO >C10-C28*	**10.6**	10.0	04/01/2023	ND	214	107	200	7.41	
EXT DRO >C28-C36	<10.0	10.0	04/01/2023	ND					

Surrogate: 1-Chlorooctane *106 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *109 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	03/30/2023	Sampling Date:	03/30/2023
Reported:	04/04/2023	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 4 SURFACE (H231487-10)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	04/01/2023	ND	1.98	99.0	2.00	3.89	
Toluene*	**3.19**	1.00	04/01/2023	ND	2.04	102	2.00	3.58	
Ethylbenzene*	**20.7**	1.00	04/01/2023	ND	2.07	103	2.00	4.83	
Total Xylenes*	**72.5**	3.00	04/01/2023	ND	6.21	104	6.00	4.89	
Total BTEX	**96.4**	6.00	04/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *114 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**160**	16.0	04/03/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**3450**	100	04/03/2023	ND	210	105	200	7.61	
DRO >C10-C28*	**58200**	100	04/03/2023	ND	214	107	200	7.41	
EXT DRO >C28-C36	**9850**	100	04/03/2023	ND					

Surrogate: 1-Chlorooctane *1630 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *1550 %* *49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	03/30/2023	Sampling Date:	03/30/2023
Reported:	04/04/2023	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 1' (H231487-11)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2023	ND	1.98	99.0	2.00	3.89	
Toluene*	<0.050	0.050	04/03/2023	ND	2.04	102	2.00	3.58	
Ethylbenzene*	**0.201**	0.050	04/03/2023	ND	2.07	103	2.00	4.83	
Total Xylenes*	**0.901**	0.150	04/03/2023	ND	6.21	104	6.00	4.89	
Total BTEX	**1.12**	0.300	04/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *120 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg **Analyzed By: GM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	04/03/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**17.1**	10.0	04/01/2023	ND	210	105	200	7.61	
DRO >C10-C28*	**171**	10.0	04/01/2023	ND	214	107	200	7.41	
EXT DRO >C28-C36	**12.6**	10.0	04/01/2023	ND					

Surrogate: 1-Chlorooctane *112 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *120 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	03/30/2023	Sampling Date:	03/30/2023
Reported:	04/04/2023	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 2' (H231487-12)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2023	ND	1.98	99.0	2.00	3.89	
Toluene*	<0.050	0.050	04/03/2023	ND	2.04	102	2.00	3.58	
Ethylbenzene*	<0.050	0.050	04/03/2023	ND	2.07	103	2.00	4.83	
Total Xylenes*	**0.248**	0.150	04/03/2023	ND	6.21	104	6.00	4.89	
Total BTEX	<0.300	0.300	04/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *110 %* *71.5-134*

Chloride, SM4500Cl-B mg/kg Analyzed By: GM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	04/03/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**10.8**	10.0	04/01/2023	ND	210	105	200	7.61	
DRO >C10-C28*	**277**	10.0	04/01/2023	ND	214	107	200	7.41	
EXT DRO >C28-C36	**42.1**	10.0	04/01/2023	ND					

Surrogate: 1-Chlorooctane *103 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *103 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	03/30/2023	Sampling Date:	03/30/2023
Reported:	04/04/2023	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 3' (H231487-13)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2023	ND	1.98	99.0	2.00	3.89	
Toluene*	<0.050	0.050	04/03/2023	ND	2.04	102	2.00	3.58	
Ethylbenzene*	<0.050	0.050	04/03/2023	ND	2.07	103	2.00	4.83	
Total Xylenes*	<0.150	0.150	04/03/2023	ND	6.21	104	6.00	4.89	
Total BTEX	<0.300	0.300	04/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *106 %* *71.5-134*

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	04/03/2023	ND	432	108	400	0.00	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2023	ND	210	105	200	7.61	
DRO >C10-C28*	<10.0	10.0	04/01/2023	ND	214	107	200	7.41	
EXT DRO >C28-C36	<10.0	10.0	04/01/2023	ND					

Surrogate: 1-Chlorooctane *99.7 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *100 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Apache	**BILL TO** P.O. #:	
Project Manager:	B. Baker	Company:	
Address:		Attn:	
City:	Hobbs	State: NM Zip: 88240	Address:
Phone #:		Fax #:	City:
Project #:		Project Owner:	State: Zip:
Project Name:			Phone #:
Project Location:	EAU C-37		Fax #:
Sampler Name:	Jose Quesada		

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	Cl	BTEX	Ext TPH
H231487																	
1	H1	C	1			1					1		3/30	10:20	1	1	1
2	H2	C	1			1					1			10:22	1	1	1
3	H3	C	1			1					1			10:24	1	1	1
4	H4	C	1			1					1			10:26	1	1	1
5	SP3 surface	G	1			1					1			10:58	1	1	1
6	SP3 @ 1'	G	1			1					1			11:00	1	1	1
7	SP3 @ 2'	G	1			1					1			11:02	1	1	1
8	SP3 @ 3'	G	1			1					1			11:04	1	1	1
9	SP3 @ 4'	G	1			1					1			11:06	1	1	1
10	SP4 surface	G	1			1					1			11:08	1	1	1

Relinquished By: Jose Quesada	Date: 3/30/23 Time: 3:50	Received By: Ivan Orosco	Verbal Result: ☐ Yes ☐ No Add'l Phone #:	
Relinquished By: Ivan Orosco	Date: 3/30/23 Time: 4:30 pm	Received By: Tamara Oldaker	All Results are emailed. Please provide Email address:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 3.4 Corrected Temp. °C 2.8	Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials) TO	REMARKS: E-Mail Results
			Turnaround Time: Standard ☑ Rush ☐	Bacteria (only) Sample Condition Cool ☐ Yes ☐ Nc Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C
			Thermometer ID #113 Correction Factor -0.6°C C	

FORM-006 R 3.3 07/18/22

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

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Apache	**BILL TO** P.O. #:	
Project Manager:	B. Baker	Company:	
Address:		Attn:	
City:	Hobbs	State: NM Zip: 88240	Address:
Phone #:		Fax #:	City:
Project #:		Project Owner:	State: Zip:
Project Name:			Phone #:
Project Location:	EAU C-37		Fax #:
Sampler Name:	Jose Quezada		

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME	Cl	BTEX	Ext TPH
H231487																	
11	SP4 @ 1'	G	1			1					1		3/30	11:10	1	1	1
12	SP4 @ 2'	G	1			1					1			11:12	1	1	1
13	SP4 @ 3'	G	1			1					1			11:14	1	1	1

Relinquished By: Jose Quezada	Date: 3/30/23 Time: 3:50	Received By: Ivan Gross	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By: Ivan Gross	Date: 3/30/23 Time: 4:30 pm	Received By: Tamara Oldaker	All Results are emailed. Please provide Email address:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 34 Corrected Temp. °C 2.8	Sample Condition Cool ☑ Yes Intact ☑ Yes ☐ No ☐ No	CHECKED BY: (Initials)

REMARKS: E-Mail Results

Turnaround Time: Standard ☑ Rush ☐

Thermometer ID #113
Correction Factor -0.6°C

Bacteria (only) Sample Condition
Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No
Observed Temp. °C
Corrected Temp. °C

FORM-006 R 3.3 07/18/22

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

CARDINAL Laboratories

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

April 21, 2023

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EAU C - 37

Enclosed are the results of analyses for samples received by the laboratory on 04/17/23 16:10.

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

Cardinal Laboratories is 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. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/17/2023	Sampling Date:	04/17/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 7' (H231840-01)

BTEX 8021B mg/kg Analyzed By: JH S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	04/20/2023	ND	1.98	98.9	2.00	11.3	
Toluene*	**4.73**	1.00	04/20/2023	ND	2.03	102	2.00	12.6	
Ethylbenzene*	**7.75**	1.00	04/20/2023	ND	2.22	111	2.00	14.5	
Total Xylenes*	**48.6**	3.00	04/20/2023	ND	6.77	113	6.00	14.9	
Total BTEX	**61.1**	6.00	04/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID	*150 %*	*71.5-134*

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**1250**	10.0	04/20/2023	ND	163	81.6	200	0.510	
DRO >C10-C28*	**7410**	10.0	04/20/2023	ND	191	95.5	200	3.88	
EXT DRO >C28-C36	**1080**	10.0	04/20/2023	ND					

Surrogate: 1-Chlorooctane	*233 %*	*48.2-134*
Surrogate: 1-Chlorooctadecane	*174 %*	*49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/17/2023	Sampling Date:	04/17/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 9' (H231840-02)

BTEX 8021B mg/kg Analyzed By: JH S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	04/20/2023	ND	1.98	98.9	2.00	11.3	
Toluene*	**13.0**	1.00	04/20/2023	ND	2.03	102	2.00	12.6	
Ethylbenzene*	**23.4**	1.00	04/20/2023	ND	2.22	111	2.00	14.5	
Total Xylenes*	**109**	3.00	04/20/2023	ND	6.77	113	6.00	14.9	
Total BTEX	**145**	6.00	04/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID	*150 %*	*71.5-134*

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**1960**	10.0	04/20/2023	ND	163	81.6	200	0.510	
DRO >C10-C28*	**7100**	10.0	04/20/2023	ND	191	95.5	200	3.88	
EXT DRO >C28-C36	**1010**	10.0	04/20/2023	ND					

Surrogate: 1-Chlorooctane	*315 %*	*48.2-134*
Surrogate: 1-Chlorooctadecane	*183 %*	*49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/17/2023	Sampling Date:	04/17/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 11' (H231840-03)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	04/20/2023	ND	1.98	98.9	2.00	11.3	
Toluene*	**19.2**	1.00	04/20/2023	ND	2.03	102	2.00	12.6	
Ethylbenzene*	**36.2**	1.00	04/20/2023	ND	2.22	111	2.00	14.5	
Total Xylenes*	**159**	3.00	04/20/2023	ND	6.77	113	6.00	14.9	
Total BTEX	**215**	6.00	04/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *71.5-134*

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**2180**	10.0	04/20/2023	ND	166	82.9	200	1.10	QM-07
DRO >C10-C28*	**6430**	10.0	04/20/2023	ND	171	85.5	200	0.911	QM-07
EXT DRO >C28-C36	**1100**	10.0	04/20/2023	ND					

Surrogate: 1-Chlorooctane *344 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *176 %* *49.1-148*

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/17/2023	Sampling Date:	04/17/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 13' (H231840-04)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**0.114**	0.050	04/20/2023	ND	1.98	98.9	2.00	11.3	GC-NC1
Toluene*	**3.75**	0.050	04/20/2023	ND	2.03	102	2.00	12.6	
Ethylbenzene*	**6.70**	0.050	04/20/2023	ND	2.22	111	2.00	14.5	
Total Xylenes*	**24.9**	0.150	04/20/2023	ND	6.77	113	6.00	14.9	
Total BTEX	**35.4**	0.300	04/20/2023	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID *120 %* *71.5-134*

TPH 8015M mg/kg **Analyzed By: MS** **S-04**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**437**	10.0	04/20/2023	ND	166	82.9	200	1.10	
DRO >C10-C28*	**1480**	10.0	04/20/2023	ND	171	85.5	200	0.911	
EXT DRO >C28-C36	**218**	10.0	04/20/2023	ND					

Surrogate: 1-Chlorooctane *135 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *121 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/17/2023	Sampling Date:	04/17/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 15' (H231840-05)

BTEX 8021B mg/kg **Analyzed By: JH** **S-04**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	04/20/2023	ND	1.98	98.9	2.00	11.3	
Toluene*	**64.3**	2.00	04/20/2023	ND	2.03	102	2.00	12.6	
Ethylbenzene*	**104**	2.00	04/20/2023	ND	2.22	111	2.00	14.5	
Total Xylenes*	**337**	6.00	04/20/2023	ND	6.77	113	6.00	14.9	
Total BTEX	**506**	12.0	04/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *138 %* *71.5-134*

TPH 8015M mg/kg **Analyzed By: MS** **S-04**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**1050**	10.0	04/20/2023	ND	166	82.9	200	1.10	
DRO >C10-C28*	**2390**	10.0	04/20/2023	ND	171	85.5	200	0.911	
EXT DRO >C28-C36	**414**	10.0	04/20/2023	ND					

Surrogate: 1-Chlorooctane *81.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *42.8 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/17/2023	Sampling Date:	04/17/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 5' (H231840-06)

BTEX 8021B mg/kg Analyzed By: JH

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/20/2023	ND	1.98	98.9	2.00	11.3	
Toluene*	<0.050	0.050	04/20/2023	ND	2.03	102	2.00	12.6	
Ethylbenzene*	**0.083**	0.050	04/20/2023	ND	2.22	111	2.00	14.5	
Total Xylenes*	**0.323**	0.150	04/20/2023	ND	6.77	113	6.00	14.9	
Total BTEX	**0.406**	0.300	04/20/2023	ND					

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

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/20/2023	ND	166	82.9	200	1.10	
DRO >C10-C28*	**66.9**	10.0	04/20/2023	ND	171	85.5	200	0.911	
EXT DRO >C28-C36	**17.4**	10.0	04/20/2023	ND					

Surrogate: 1-Chlorooctane *94.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *99.1 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/17/2023	Sampling Date:	04/17/2023
Reported:	04/21/2023	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 7' (H231840-07)

BTEX 8021B mg/kg **Analyzed By: JH**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/20/2023	ND	1.98	98.9	2.00	11.3	
Toluene*	<0.050	0.050	04/20/2023	ND	2.03	102	2.00	12.6	
Ethylbenzene*	<0.050	0.050	04/20/2023	ND	2.22	111	2.00	14.5	
Total Xylenes*	<0.150	0.150	04/20/2023	ND	6.77	113	6.00	14.9	
Total BTEX	<0.300	0.300	04/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *111 %* *71.5-134*

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/20/2023	ND	166	82.9	200	1.10	
DRO >C10-C28*	**11.8**	10.0	04/20/2023	ND	171	85.5	200	0.911	
EXT DRO >C28-C36	<10.0	10.0	04/20/2023	ND					

Surrogate: 1-Chlorooctane *101 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *110 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
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

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Apache	**BILL TO**	
Project Manager:	B. Baker	P.O. #:	
Address:		Company:	
City:	Hobbs	State: NM Zip: 88240	Attn:
Phone #:		Fax #:	Address:
Project #:		Project Owner:	City:
Project Name:			State: Zip:
Project Location:	EAU C-37		Phone #:
Sampler Name:	Jose Rosa		Fax #:

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL ✓	OTHER :	DATE	TIME	BTEX	EXT TPH
H231840																
1	Sp1@7'	G	1			1					1		4/17	2:02	1	1
2	Sp1@9'	G	1			1					1			2:04	1	1
3	Sp1@11'	G	1			1					1			2:06	1	1
4	Sp1@13'	G	1			1					1			2:08	1	1
5	Sp1@15'	G	1			1					1			2:10	1	1
6	Sp2@5'	G	1			1					1			2:12	1	1
7	Sp2@7'	G	1			1					1			2:14	1	1

Relinquished By:	Date: 4/17/23	Received By:	Verbal Result: ☐ Yes ☐ No	Add'l Phone #:	
Jose Rosa	Time: 2:30	Ivan Rosa	All Results are emailed. Please provide Email address:		
Relinquished By:	Date: 4-17-23	Received By:	REMARKS: E. Mail Results		
Ivan Rosa	Time: 4:20 pm	Tamara Oldaker			
Delivered By: (Circle One)	Observed Temp. °C	1.2	Sample Condition	CHECKED BY:	Turnaround Time: Standard ☑ Rush ☐
Sampler - UPS - Bus - Other:	Corrected Temp. °C	0.6	Cool ☑ Yes ☐ No / Intact ☑ Yes ☐ No	(Initials) TO	Thermometer ID #113 Correction Factor -0.6°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No / Intact ☐ Yes ☐ No / Observed Temp. °C / Corrected Temp. °C

FORM-006 R 3.3 07/18/22

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

CARDINAL Laboratories

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

May 03, 2023

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: EAU C - 37

Enclosed are the results of analyses for samples received by the laboratory on 04/28/23 15:30.

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

Cardinal Laboratories is 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. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/28/2023	Sampling Date:	04/28/2023
Reported:	05/03/2023	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 17' (H232110-01)

BTEX 8021B mg/kg Analyzed By: JH/ S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	05/01/2023	ND	2.08	104	2.00	1.60	
Toluene*	**11.6**	0.500	05/01/2023	ND	2.12	106	2.00	0.626	
Ethylbenzene*	**27.0**	0.500	05/01/2023	ND	2.12	106	2.00	1.41	
Total Xylenes*	**91.0**	1.50	05/01/2023	ND	6.60	110	6.00	2.06	
Total BTEX	**130**	3.00	05/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *152 %* *71.5-134*

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**1430**	10.0	05/02/2023	ND	168	83.8	200	1.74	
DRO >C10-C28*	**4370**	10.0	05/02/2023	ND	177	88.5	200	1.16	
EXT DRO >C28-C36	**697**	10.0	05/02/2023	ND					

Surrogate: 1-Chlorooctane *106 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *70.1 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/28/2023	Sampling Date:	04/28/2023
Reported:	05/03/2023	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 19' (H232110-02)

BTEX 8021B mg/kg Analyzed By: JH/ S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2023	ND	2.08	104	2.00	1.60	
Toluene*	**1.06**	0.050	05/01/2023	ND	2.12	106	2.00	0.626	
Ethylbenzene*	**4.48**	0.050	05/01/2023	ND	2.12	106	2.00	1.41	
Total Xylenes*	**22.0**	0.150	05/01/2023	ND	6.60	110	6.00	2.06	
Total BTEX	**27.5**	0.300	05/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *278 %* *71.5-134*

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**455**	10.0	05/01/2023	ND	189	94.6	200	0.812	
DRO >C10-C28*	**2190**	10.0	05/01/2023	ND	187	93.5	200	0.845	QM-07
EXT DRO >C28-C36	**354**	10.0	05/01/2023	ND					

Surrogate: 1-Chlorooctane *67.5 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *77.7 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	04/28/2023	Sampling Date:	04/28/2023
Reported:	05/03/2023	Sampling Type:	Soil
Project Name:	EAU C - 37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 21' (H232110-03)

BTEX 8021B mg/kg Analyzed By: JH/ S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	05/01/2023	ND	2.08	104	2.00	1.60	
Toluene*	**15.6**	0.200	05/01/2023	ND	2.12	106	2.00	0.626	
Ethylbenzene*	**31.0**	0.200	05/01/2023	ND	2.12	106	2.00	1.41	
Total Xylenes*	**98.5**	0.600	05/01/2023	ND	6.60	110	6.00	2.06	
Total BTEX	**145**	1.20	05/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *203 %* *71.5-134*

TPH 8015M mg/kg Analyzed By: MS S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	**1260**	10.0	05/02/2023	ND	189	94.6	200	0.812	
DRO >C10-C28*	**3600**	10.0	05/02/2023	ND	187	93.5	200	0.845	
EXT DRO >C28-C36	**541**	10.0	05/02/2023	ND					

Surrogate: 1-Chlorooctane *149 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *103 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Apache
Project Manager:	B. Baker
Address:	
City:	Hobbs
State:	NM
Zip:	88240
Phone #:	
Fax #:	
Project #:	
Project Owner:	
Project Name:	
Project Location:	EAU C-37
Sampler Name:	Jose Rosal

BILL TO

P.O. #:	
Company:	
Attn:	
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

BTEX
8021 TPH

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING: DATE	TIME
H252110 1	Spl @ 17'	G	1			1					1		4/28	1:00 pm
2	Spl @ 19'	G	1			1					1			1:02 pm
3	Spl @ 21'	G	1			1					1			1:04 pm

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the 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 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, 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.

Relinquished By:	Date: 4/28/23	Received By:	Verbal Result: ☐ Yes ☐ No Add'l Phone #:
Jose Rosal	Time: 3:30	SRodriguez	All Results are emailed. Please provide Email address:
Relinquished By:	Date:	Received By:	REMARKS: E-Mail Results
	Time:		

Delivered By: (Circle One)	Observed Temp. °C: 3.1	Sample Condition: Cool ☑ Yes ☐ No	CHECKED BY: (Initials)	Turnaround Time: Standard ☑ Rush ☐
Sampler - UPS - Bus - Other:	Corrected Temp. °C: 2.5	Intact ☐ Yes ☐ No	SR	Thermometer ID #113 Correction Factor -0.6°C

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.3 07/18/22

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eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Mark J Larson
Larson & Associates, Inc.
507 N Marienfeld
Suite 202
Midland, Texas 79701

Generated 6/21/2023 10:03:38 AM

JOB DESCRIPTION

EAU 37
SDG NUMBER 23-0113-01

JOB NUMBER

880-29664-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

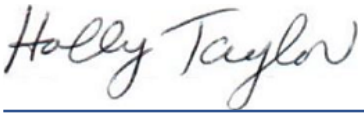
Eurofins Midland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



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6/21/2023 10:03:38 AM

Authorized for release by
Holly Taylor, Project Manager
Holly.Taylor@et.eurofinsus.com
(806)794-1296

Client: Larson & Associates, Inc.
Project/Site: EAU 37

Laboratory Job ID: 880-29664-1
SDG: 23-0113-01

Table of Contents

Definitions/Glossary

Client: Larson & Associates, Inc.
Project/Site: EAU 37

Job ID: 880-29664-1
SDG: 23-0113-01

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Larson & Associates, Inc.
Project/Site: EAU 37

Job ID: 880-29664-1
SDG: 23-0113-01

Job ID: 880-29664-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-29664-1

Receipt
The samples were received on 6/16/2023 3:50 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 7.8°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SP-1 25' (880-29664-1), SP-1 30' (880-29664-2), SP-1 35' (880-29664-3) and SP-1 40' (880-29664-4).

GC VOA
Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-55932 and analytical batch 880-55895 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-55932/5-A). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-55662 and analytical batch 880-55746 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-55662/2-A) and (LCSD 880-55662/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SP-1 25' (880-29664-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: EAU 37

Job ID: 880-29664-1
SDG: 23-0113-01

Client Sample ID: SP-1 25'

Date Collected: 06/15/23 12:30
Date Received: 06/16/23 15:50

Lab Sample ID: 880-29664-1

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/19/23 10:31	06/20/23 09:29	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/19/23 10:31	06/20/23 09:29	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/19/23 10:31	06/20/23 09:29	1
m,p-Xylenes	<0.00404	U	0.00404		mg/Kg		06/19/23 10:31	06/20/23 09:29	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/19/23 10:31	06/20/23 09:29	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		06/19/23 10:31	06/20/23 09:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*06/19/23 10:31*	*06/20/23 09:29*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*06/19/23 10:31*	*06/20/23 09:29*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			06/20/23 10:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/19/23 12:48	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/16/23 17:50	06/17/23 19:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/16/23 17:50	06/17/23 19:32	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/16/23 17:50	06/17/23 19:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*133*	*S1+*	*70 - 130*	*06/16/23 17:50*	*06/17/23 19:32*	*1*
o-Terphenyl (Surr)	*121*		*70 - 130*	*06/16/23 17:50*	*06/17/23 19:32*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3910**		25.0		mg/Kg			06/20/23 09:40	5

Client Sample ID: SP-1 30'

Date Collected: 06/15/23 12:36
Date Received: 06/16/23 15:50

Lab Sample ID: 880-29664-2

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/19/23 10:31	06/20/23 09:49	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/19/23 10:31	06/20/23 09:49	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/19/23 10:31	06/20/23 09:49	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		06/19/23 10:31	06/20/23 09:49	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/19/23 10:31	06/20/23 09:49	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/19/23 10:31	06/20/23 09:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*06/19/23 10:31*	*06/20/23 09:49*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*06/19/23 10:31*	*06/20/23 09:49*	*1*

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: EAU 37

Job ID: 880-29664-1
SDG: 23-0113-01

Client Sample ID: SP-1 30'

Date Collected: 06/15/23 12:36
Date Received: 06/16/23 15:50

Lab Sample ID: 880-29664-2

Matrix: Solid

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/20/23 10:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/19/23 12:48	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/16/23 17:50	06/17/23 19:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/16/23 17:50	06/17/23 19:56	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/16/23 17:50	06/17/23 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*120*		*70 - 130*	*06/16/23 17:50*	*06/17/23 19:56*	*1*
o-Terphenyl (Surr)	*111*		*70 - 130*	*06/16/23 17:50*	*06/17/23 19:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3740**		25.1		mg/Kg			06/20/23 09:58	5

Client Sample ID: SP-1 35'

Date Collected: 06/15/23 12:43
Date Received: 06/16/23 15:50

Lab Sample ID: 880-29664-3

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		06/19/23 10:31	06/20/23 10:10	1
Toluene	<0.00202	U	0.00202		mg/Kg		06/19/23 10:31	06/20/23 10:10	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		06/19/23 10:31	06/20/23 10:10	1
m,p-Xylenes	<0.00403	U	0.00403		mg/Kg		06/19/23 10:31	06/20/23 10:10	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		06/19/23 10:31	06/20/23 10:10	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		06/19/23 10:31	06/20/23 10:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*06/19/23 10:31*	*06/20/23 10:10*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*06/19/23 10:31*	*06/20/23 10:10*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			06/20/23 10:53	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/19/23 12:48	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/16/23 17:50	06/17/23 20:20	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/16/23 17:50	06/17/23 20:20	1

Client Sample Results

Client: Larson & Associates, Inc.
Project/Site: EAU 37

Job ID: 880-29664-1
SDG: 23-0113-01

Client Sample ID: SP-1 35'

Date Collected: 06/15/23 12:43
Date Received: 06/16/23 15:50

Lab Sample ID: 880-29664-3

Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/16/23 17:50	06/17/23 20:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*118*		*70 - 130*	*06/16/23 17:50*	*06/17/23 20:20*	*1*
o-Terphenyl (Surr)	*109*		*70 - 130*	*06/16/23 17:50*	*06/17/23 20:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2770**		25.3		mg/Kg			06/20/23 10:04	5

Client Sample ID: SP-1 40'

Date Collected: 06/15/23 12:47
Date Received: 06/16/23 15:50

Lab Sample ID: 880-29664-4

Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *+	0.00201		mg/Kg		06/20/23 14:04	06/21/23 04:33	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/20/23 14:04	06/21/23 04:33	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/20/23 14:04	06/21/23 04:33	1
m,p-Xylenes	<0.00402	U	0.00402		mg/Kg		06/20/23 14:04	06/21/23 04:33	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/20/23 14:04	06/21/23 04:33	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/20/23 14:04	06/21/23 04:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*	*06/20/23 14:04*	*06/21/23 04:33*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*06/20/23 14:04*	*06/21/23 04:33*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/21/23 09:57	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/19/23 12:48	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/16/23 17:50	06/17/23 20:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/16/23 17:50	06/17/23 20:43	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/16/23 17:50	06/17/23 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*111*		*70 - 130*	*06/16/23 17:50*	*06/17/23 20:43*	*1*
o-Terphenyl (Surr)	*100*		*70 - 130*	*06/16/23 17:50*	*06/17/23 20:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**194**		5.05		mg/Kg			06/20/23 10:21	1

Surrogate Summary

Client: Larson & Associates, Inc.
Project/Site: EAU 37

Job ID: 880-29664-1
SDG: 23-0113-01

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-29664-1	SP-1 25'	83	102
880-29664-2	SP-1 30'	100	111
880-29664-3	SP-1 35'	104	109
880-29664-4	SP-1 40'	87	77
LCS 880-55811/1-A	Lab Control Sample	98	98
LCS 880-55932/1-A	Lab Control Sample	123	114
LCSD 880-55811/2-A	Lab Control Sample Dup	95	114
LCSD 880-55932/2-A	Lab Control Sample Dup	103	108
MB 880-55744/5-A	Method Blank	93	118
MB 880-55809/5-A	Method Blank	70	98
MB 880-55811/5-A	Method Blank	93	118
MB 880-55932/5-A	Method Blank	67 S1-	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-29664-1	SP-1 25'	133 S1+	121
880-29664-2	SP-1 30'	120	111
880-29664-3	SP-1 35'	118	109
880-29664-4	SP-1 40'	111	100
LCS 880-55662/2-A	Lab Control Sample	145 S1+	132 S1+
LCSD 880-55662/3-A	Lab Control Sample Dup	146 S1+	131 S1+
MB 880-55662/1-A	Method Blank	149 S1+	139 S1+

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: EAU 37

Job ID: 880-29664-1
SDG: 23-0113-01

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-55744/5-A
Matrix: Solid
Analysis Batch: 55779

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55744

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/16/23 17:40	06/19/23 14:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/16/23 17:40	06/19/23 14:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/16/23 17:40	06/19/23 14:00	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		06/16/23 17:40	06/19/23 14:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/16/23 17:40	06/19/23 14:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/16/23 17:40	06/19/23 14:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*06/16/23 17:40*	*06/19/23 14:00*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*06/16/23 17:40*	*06/19/23 14:00*	*1*

Lab Sample ID: MB 880-55809/5-A
Matrix: Solid
Analysis Batch: 55895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55809

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/19/23 10:08	06/20/23 11:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/19/23 10:08	06/20/23 11:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/19/23 10:08	06/20/23 11:59	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		06/19/23 10:08	06/20/23 11:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/19/23 10:08	06/20/23 11:59	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/19/23 10:08	06/20/23 11:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*70*		*70 - 130*	*06/19/23 10:08*	*06/20/23 11:59*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*06/19/23 10:08*	*06/20/23 11:59*	*1*

Lab Sample ID: MB 880-55811/5-A
Matrix: Solid
Analysis Batch: 55779

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55811

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/19/23 10:31	06/20/23 01:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/19/23 10:31	06/20/23 01:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/19/23 10:31	06/20/23 01:43	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		06/19/23 10:31	06/20/23 01:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/19/23 10:31	06/20/23 01:43	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/19/23 10:31	06/20/23 01:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*	*06/19/23 10:31*	*06/20/23 01:43*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*06/19/23 10:31*	*06/20/23 01:43*	*1*

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: EAU 37

Job ID: 880-29664-1
SDG: 23-0113-01

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-55811/1-A
Matrix: Solid
Analysis Batch: 55779

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55811

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1149		mg/Kg		115	70 - 130		
Toluene			0.100	0.1177		mg/Kg		118	70 - 130		
Ethylbenzene			0.100	0.09555		mg/Kg		96	70 - 130		
m,p-Xylenes			0.200	0.1923		mg/Kg		96	70 - 130		
o-Xylene			0.100	0.09525		mg/Kg		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 880-55811/2-A
Matrix: Solid
Analysis Batch: 55779

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 55811

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1271		mg/Kg		127	70 - 130	10	35
Toluene			0.100	0.1220		mg/Kg		122	70 - 130	4	35
Ethylbenzene			0.100	0.09685		mg/Kg		97	70 - 130	1	35
m,p-Xylenes			0.200	0.2009		mg/Kg		100	70 - 130	4	35
o-Xylene			0.100	0.1020		mg/Kg		102	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*

Lab Sample ID: MB 880-55932/5-A
Matrix: Solid
Analysis Batch: 55895

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55932

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/20/23 14:04	06/20/23 22:42	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/20/23 14:04	06/20/23 22:42	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/20/23 14:04	06/20/23 22:42	1
m,p-Xylenes	<0.00400	U	0.00400		mg/Kg		06/20/23 14:04	06/20/23 22:42	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/20/23 14:04	06/20/23 22:42	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/20/23 14:04	06/20/23 22:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*67*	*S1-*	*70 - 130*	*06/20/23 14:04*	*06/20/23 22:42*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*06/20/23 14:04*	*06/20/23 22:42*	*1*

Lab Sample ID: LCS 880-55932/1-A
Matrix: Solid
Analysis Batch: 55895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55932

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1370	*+	mg/Kg		137	70 - 130		
Toluene			0.100	0.1164		mg/Kg		116	70 - 130		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: EAU 37

Job ID: 880-29664-1
SDG: 23-0113-01

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-55932/1-A
Matrix: Solid
Analysis Batch: 55895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55932

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.100	0.1150		mg/Kg		115	70 - 130
m,p-Xylenes	0.200	0.2396		mg/Kg		120	70 - 130
o-Xylene	0.100	0.1210		mg/Kg		121	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*

Lab Sample ID: LCSD 880-55932/2-A
Matrix: Solid
Analysis Batch: 55895

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 55932

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1239		mg/Kg		124	70 - 130	10	35
Toluene	0.100	0.1039		mg/Kg		104	70 - 130	11	35
Ethylbenzene	0.100	0.1013		mg/Kg		101	70 - 130	13	35
m,p-Xylenes	0.200	0.2070		mg/Kg		104	70 - 130	15	35
o-Xylene	0.100	0.1010		mg/Kg		101	70 - 130	18	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-55662/1-A
Matrix: Solid
Analysis Batch: 55746

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 55662

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		06/16/23 09:44	06/17/23 09:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		06/16/23 09:44	06/17/23 09:14	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		06/16/23 09:44	06/17/23 09:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane (Surr)	*149*	*S1+*	*70 - 130*	*06/16/23 09:44*	*06/17/23 09:14*	*1*
o-Terphenyl (Surr)	*139*	*S1+*	*70 - 130*	*06/16/23 09:44*	*06/17/23 09:14*	*1*

Lab Sample ID: LCS 880-55662/2-A
Matrix: Solid
Analysis Batch: 55746

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55662

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	976.9		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1168		mg/Kg		117	70 - 130

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QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: EAU 37

Job ID: 880-29664-1
SDG: 23-0113-01

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-55662/2-A
Matrix: Solid
Analysis Batch: 55746

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 55662

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane (Surr)	145	S1+	70 - 130
o-Terphenyl (Surr)	132	S1+	70 - 130

Lab Sample ID: LCSD 880-55662/3-A
Matrix: Solid
Analysis Batch: 55746

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 55662

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1014		mg/Kg		101	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	1189		mg/Kg		119	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane (Surr)	146	S1+	70 - 130
o-Terphenyl (Surr)	131	S1+	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-55742/1-A
Matrix: Solid
Analysis Batch: 55896

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/20/23 08:01	1

Lab Sample ID: LCS 880-55742/2-A
Matrix: Solid
Analysis Batch: 55896

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	239.4		mg/Kg		96	90 - 110		

Lab Sample ID: LCSD 880-55742/3-A
Matrix: Solid
Analysis Batch: 55896

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	239.5		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 880-29664-1 MS
Matrix: Solid
Analysis Batch: 55896

Client Sample ID: SP-1 25'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	3910		1250	5208		mg/Kg		104	90 - 110		

QC Sample Results

Client: Larson & Associates, Inc.
Project/Site: EAU 37

Job ID: 880-29664-1
SDG: 23-0113-01

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-29664-1 MSD
Matrix: Solid
Analysis Batch: 55896

Client Sample ID: SP-1 25'
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3910		1250	5211		mg/Kg		104	90 - 110	0	20

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: EAU 37

Job ID: 880-29664-1
SDG: 23-0113-01

GC VOA

Prep Batch: 55744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-55744/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 55779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29664-1	SP-1 25'	Total/NA	Solid	8021B	55811
880-29664-2	SP-1 30'	Total/NA	Solid	8021B	55811
880-29664-3	SP-1 35'	Total/NA	Solid	8021B	55811
MB 880-55744/5-A	Method Blank	Total/NA	Solid	8021B	55744
MB 880-55811/5-A	Method Blank	Total/NA	Solid	8021B	55811
LCS 880-55811/1-A	Lab Control Sample	Total/NA	Solid	8021B	55811
LCSD 880-55811/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	55811

Prep Batch: 55809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-55809/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 55811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29664-1	SP-1 25'	Total/NA	Solid	5035	
880-29664-2	SP-1 30'	Total/NA	Solid	5035	
880-29664-3	SP-1 35'	Total/NA	Solid	5035	
MB 880-55811/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-55811/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-55811/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 55895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29664-4	SP-1 40'	Total/NA	Solid	8021B	55932
MB 880-55809/5-A	Method Blank	Total/NA	Solid	8021B	55809
MB 880-55932/5-A	Method Blank	Total/NA	Solid	8021B	55932
LCS 880-55932/1-A	Lab Control Sample	Total/NA	Solid	8021B	55932
LCSD 880-55932/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	55932

Analysis Batch: 55918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29664-1	SP-1 25'	Total/NA	Solid	Total BTEX	
880-29664-2	SP-1 30'	Total/NA	Solid	Total BTEX	
880-29664-3	SP-1 35'	Total/NA	Solid	Total BTEX	
880-29664-4	SP-1 40'	Total/NA	Solid	Total BTEX	

Prep Batch: 55932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29664-4	SP-1 40'	Total/NA	Solid	5035	
MB 880-55932/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-55932/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-55932/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

QC Association Summary

Client: Larson & Associates, Inc.
Project/Site: EAU 37

Job ID: 880-29664-1
SDG: 23-0113-01

GC Semi VOA

Prep Batch: 55662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29664-1	SP-1 25'	Total/NA	Solid	8015NM Prep	
880-29664-2	SP-1 30'	Total/NA	Solid	8015NM Prep	
880-29664-3	SP-1 35'	Total/NA	Solid	8015NM Prep	
880-29664-4	SP-1 40'	Total/NA	Solid	8015NM Prep	
MB 880-55662/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-55662/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-55662/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 55746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29664-1	SP-1 25'	Total/NA	Solid	8015B NM	55662
880-29664-2	SP-1 30'	Total/NA	Solid	8015B NM	55662
880-29664-3	SP-1 35'	Total/NA	Solid	8015B NM	55662
880-29664-4	SP-1 40'	Total/NA	Solid	8015B NM	55662
MB 880-55662/1-A	Method Blank	Total/NA	Solid	8015B NM	55662
LCS 880-55662/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	55662
LCSD 880-55662/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	55662

Analysis Batch: 55832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29664-1	SP-1 25'	Total/NA	Solid	8015 NM	
880-29664-2	SP-1 30'	Total/NA	Solid	8015 NM	
880-29664-3	SP-1 35'	Total/NA	Solid	8015 NM	
880-29664-4	SP-1 40'	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 55742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29664-1	SP-1 25'	Soluble	Solid	DI Leach	
880-29664-2	SP-1 30'	Soluble	Solid	DI Leach	
880-29664-3	SP-1 35'	Soluble	Solid	DI Leach	
880-29664-4	SP-1 40'	Soluble	Solid	DI Leach	
MB 880-55742/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-55742/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-55742/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-29664-1 MS	SP-1 25'	Soluble	Solid	DI Leach	
880-29664-1 MSD	SP-1 25'	Soluble	Solid	DI Leach	

Analysis Batch: 55896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-29664-1	SP-1 25'	Soluble	Solid	300.0	55742
880-29664-2	SP-1 30'	Soluble	Solid	300.0	55742
880-29664-3	SP-1 35'	Soluble	Solid	300.0	55742
880-29664-4	SP-1 40'	Soluble	Solid	300.0	55742
MB 880-55742/1-A	Method Blank	Soluble	Solid	300.0	55742
LCS 880-55742/2-A	Lab Control Sample	Soluble	Solid	300.0	55742
LCSD 880-55742/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	55742
880-29664-1 MS	SP-1 25'	Soluble	Solid	300.0	55742
880-29664-1 MSD	SP-1 25'	Soluble	Solid	300.0	55742

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: EAU 37

Job ID: 880-29664-1
SDG: 23-0113-01

Client Sample ID: SP-1 25'

Date Collected: 06/15/23 12:30
Date Received: 06/16/23 15:50

Lab Sample ID: 880-29664-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	55811	06/19/23 10:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55779	06/20/23 09:29	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			55918	06/20/23 10:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			55832	06/19/23 12:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	55662	06/16/23 17:50	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55746	06/17/23 19:32	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	55742	06/16/23 17:30	SMC	EET MID
Soluble	Analysis	300.0		5	10 mL	10 mL	55896	06/20/23 09:40	CH	EET MID

Client Sample ID: SP-1 30'

Date Collected: 06/15/23 12:36
Date Received: 06/16/23 15:50

Lab Sample ID: 880-29664-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	55811	06/19/23 10:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55779	06/20/23 09:49	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			55918	06/20/23 10:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			55832	06/19/23 12:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	55662	06/16/23 17:50	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55746	06/17/23 19:56	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	55742	06/16/23 17:30	SMC	EET MID
Soluble	Analysis	300.0		5	10 mL	10 mL	55896	06/20/23 09:58	CH	EET MID

Client Sample ID: SP-1 35'

Date Collected: 06/15/23 12:43
Date Received: 06/16/23 15:50

Lab Sample ID: 880-29664-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	55811	06/19/23 10:31	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55779	06/20/23 10:10	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			55918	06/20/23 10:53	AJ	EET MID
Total/NA	Analysis	8015 NM		1			55832	06/19/23 12:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	55662	06/16/23 17:50	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55746	06/17/23 20:20	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	55742	06/16/23 17:30	SMC	EET MID
Soluble	Analysis	300.0		5	10 mL	10 mL	55896	06/20/23 10:04	CH	EET MID

Client Sample ID: SP-1 40'

Date Collected: 06/15/23 12:47
Date Received: 06/16/23 15:50

Lab Sample ID: 880-29664-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	55932	06/20/23 14:04	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	55895	06/21/23 04:33	SM	EET MID
Total/NA	Analysis	Total BTEX		1			55918	06/21/23 09:57	AJ	EET MID

Eurofins Midland

Lab Chronicle

Client: Larson & Associates, Inc.
Project/Site: EAU 37

Job ID: 880-29664-1
SDG: 23-0113-01

Client Sample ID: SP-1 40'
Date Collected: 06/15/23 12:47
Date Received: 06/16/23 15:50

Lab Sample ID: 880-29664-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			55832	06/19/23 12:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	55662	06/16/23 17:50	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	55746	06/17/23 20:43	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	55742	06/16/23 17:30	SMC	EET MID
Soluble	Analysis	300.0		1	10 mL	10 mL	55896	06/20/23 10:21	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Larson & Associates, Inc.
Project/Site: EAU 37

Job ID: 880-29664-1
SDG: 23-0113-01

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Larson & Associates, Inc.
Project/Site: EAU 37

Job ID: 880-29664-1
SDG: 23-0113-01

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Larson & Associates, Inc.
Project/Site: EAU 37

Job ID: 880-29664-1
SDG: 23-0113-01

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-29664-1	SP-1 25'	Solid	06/15/23 12:30	06/16/23 15:50
880-29664-2	SP-1 30'	Solid	06/15/23 12:36	06/16/23 15:50
880-29664-3	SP-1 35'	Solid	06/15/23 12:43	06/16/23 15:50
880-29664-4	SP-1 40'	Solid	06/15/23 12:47	06/16/23 15:50

29664

No. 2502

CHAIN-OF-CUSTODY

Larson & Associates, Inc.
Environmental Consultants
507 N Marienfeld, Ste 202
Midland, TX 79701
432-687-0901

Data Reported to

DATE: 6/16/2023 PAGE 1 OF 1

PO#: LAB WORK ORDER#

PROJECT LOCATION OR NAME EAU 37

LAI PROJECT #. 23-0113-01 COLLECTOR: DSG / HW

TRRP report? ☐ Yes ☒ No

TIME ZONE Time zone/State: MNT / NM

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR OT=OTHER

Field Sample I D	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESSERVED	ANALYSES: BTEX ☐ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	OIL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D W 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDES ☐ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
SP-1 25'		6/15/23	1230	S	1				X		X		X	X	X													X		2a
SP-1 30'		"	1236	S	1				X		X		X	X	X													X		
SP-1 35'		"	1243	S	1				X		X		X	X	X													X		
SP-1 40'		"	1247	S	1				X		X		X	X	X													X		

880-29664 Chain of Custody

TOTAL 4

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
Daniel Hernandez	6/16/2023 1550	
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)
RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)

LABORATORY Xenco

TURN AROUND TIME
NORMAL ☒
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP 8/12 THERM# IR8 :3C
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL #
☐ HAND DELIVERED

Login Sample Receipt Checklist

Client: Larson & Associates, Inc.

Job Number: 880-29664-1
SDG Number: 23-0113-01

Login Number: 29664
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 238581
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. Floor confirmation samples should be delineated/excavated to meet closure criteria standards from Table 1 of the OCD Spill Rule for site assessment/characterization/proven depth to water determination. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Sidewall/Edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. All sidewall samples should be taken from the sidewall of the excavation. Please make sure that the edge of the release extent is accurately defined. All off-pad areas must meet reclamation standards set forth in the OCD Spill Rule. The work will need to occur in 90 days after the report has been reviewed.	12/28/2023