

June 10, 2021

VIA EMAIL: Larry.Baker@apachecorp.com

Mr. Bruce Baker Sr. Environmental Technician Apache Corporation. 2350 W. Marland Blvd. Hobbs, New Mexico

Re: Administrative Summary and Path Forward for LM Lambert, Unit B (NW/4, NE/4), Section 6, Township 20 South Range 37 East, Lea County, New Mexico

Dear Mr. Baker,

Larson & Associates, Inc. (LAI) submits this summary and path forward to Apache Corporation (Apache) for the LM Lambert (Site) located in Unit B (NW/4, NE/4), Section 6, Township 20 South Range 37 East, in Lea County, New Mexico.

Physical Setting

- The surface elevation is approximately 3,559 feet above mean sea level (msl).
- The topography slopes gently to southeast.
- No water features are located within 1,000 feet of the Site.
- Karst data provided by the USGS defines the site as "Low Risk" potential.
- Soil is designated as "Pyote and Maljamar Fine Sands", consisting of 0 to 30 inches of fine sand, underlain by 30 to 60 inches of fine sandy loam.
- The surface geology consists of windblown sand (Holocene to lower Pleistocene).
- Groundwater occurs at approximately 34.6 feet below ground surface (bgs) based on depth to groundwater measured approximately 72 hours after installing a boring (SP-2) on May 28, 2021.

Attachment A presents the boring log for SP-2.

Background

On November 4, 2020, Apache personnel collected surface samples from four (4) locations (H1 through H4). Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, analyzed the samples for benzene, toluene, ethylbenzene, and xylenes (BTEX), total petroleum hydrocarbons (TPH), including gasoline range organics (C6-C10), diesel range organic (<C10-C28), and oil range organics (<C28-C36), and chloride by EPA SW-846 Methods 8021B, 8015M, SM4500, respectively. The laboratory reported concentrations of benzene, BTEX, TPH and chloride below the New Mexico Oil Conservation Division (NMOCD) closure criteria (Table 1 19.15.29 NMAC) of 10 milligrams per kilogram (mg/Kg), 50 mg/Kg, 100 mg/Kg, and 600 mg/Kg, respectively.

507 North Marienfeld, Suite 202 Midland, Texas 79701 Ph. (432) 687-0901 Fax (432) 687-0456

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On November 3, 2020, Apache contracted Talon LPE, Hobbs, New Mexico, to collect soil samples from a boring (SP-1) location SP-1 near the center of the spill utilizing a truck-mounted hollow stem auger rig and split spoon sampler. Soil samples were collected at ground surface and 1-foot increments (i.e., 1, 2, 3, 4 feet, etc.) to approximately thirteen (13) feet bgs and every five (5) feet (i.e., 15, 20, 25 feet, etc.) to about 35 feet bgs. Cardinal analyzed the samples and reported benzene and BTEX below the OCD closure criteria (Table 1 19.15.29 NMAC) of 10 mg/Kg and 50 mg/Kg. TPH was reported above the NMOCD closure criteria of 100 mg/Kg in the following samples:

Sample ID	Depth (feet)	TPH (mg/Kg)
SP-1	1	737
SP-1	2	207.4
SP-1	3	178.3
SP-1	4	173.3
SP-1	5	311
SP-1	7	149.4
SP-1	8	361
SP-1	9	8,130
SP-1	10	5,093
SP-1	11	4,418
SP-1	12	2,423
SP-1	13	7,267
SP-1	15	226.6

Chloride was reported above the NMOCD closure criteria (600 mg/Kg in the following sample:

Sample ID	Depth (feet)	Chloride (mg/Kg)
SP-1	Surface	5,120

On May 26, 2021, Scarborough Drilling, Inc. (SDI), under the supervision of LAI personnel, utilized an air rotary drilling rig to collect soil samples from two (2) locations (SP-2 and SP-3) located near the north and south end of the spill area, respectively. Samples from SP-2 and SP-3 were collected at one (1) foot and about every five (5) feet thereafter (i.e., 5, 10 feet, etc.) to approximately thirty-five (35) feet bgs. Cardinal analyzed the samples for BTEX, TPH, and chloride by EPA SW-846 Methods 8021B, 8015M, SM4500, respectively, and reported benzene and BTEX concentrations in all samples collected from SP-2 and SP-3 below the NMOCD closure criteria of 10 mg/Kg and 50 mg/Kg, respectfully. TPH was reported above the NMOCD closure criteria (100 mg/Kg) in the following samples:

Sample ID	Depth (feet)	TPH (mg/Kg)
SP-2	5	6,700
SP-2	10	1,336.3
SP-2	15	306.3
SP-2	20	413.9
SP-2	25	2,719.3
SP-2	30	865.6
SP-2	35	268.5
SP-3	1	558
SP-3	10	359

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SP-3

232.6

Chloride was reported above the NMOCD closure criteria (600 mg/Kg in the following samples:

Sample ID	Depth (feet)	Chloride (mg/Kg)
SP-2	1	2,080

20

Table 1 presents the laboratory analytical summary. Figure 2 presents an aerial map showing the sample locations. Attachment B presents the laboratory reports.

Path Forward

LAI proposes the following:

- Drill two (2) borings (SP-4 and SP-5) with an air rotary rig to approximately thirty-five (35) feet bgs at the proposed locations presented on Figure 3 to delineate the vertical and horizontal extent of the release.
- Drill and complete three (3) groundwater monitoring wells to approximately 50 feet bgs, with one well (MW-1) located hydraulically upgradient (north) of the release and two wells (MW-2 and MW-3) located hydraulically downgradient (east and south) of the release, as shown on Figure 3.
- Complete monitor wells with 30 feet of 2-inch schedule 40 PVC casing, 20 feet 0.010-inch slotted screen, and locking steel cover.
- Survey the monitor wells for elevation (ground and top of casing) by New Mexico Licensed Professional Land Surveyor.
- Develop the monitor wells and collect quarterly (4 times per year) depth to groundwater measurements and groundwater samples for laboratory analysis, including BTEX, chloride, and total dissolved solids (TDS).
- Prepare four (4) quarterly groundwater monitoring reports for submittal to the OCD.

Please contact me or Mark Larson if you have any questions or concerns.

Respectfully, LARSON & ASSOCIATES, INC.

Mark J. Larson, P.G. President/Sr. Hydrogeologist

Robert Nelson Sr. Geologist

507 North Marienfeld, Suite 202 Midland, Texas 79701 Ph. (432) 687-0901 Fax (432) 687-0456

Received by OCD: 6/10/2021 8:48:57 AM Form C-141 State of New Mexico

Oil Conservation Division

	Page 4 of	95
Incident ID		
District RP		
Facility ID		

Application ID

000

Remedia	tion Plan
Remediation Plan Checklist: Each of the following items must be i	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 Proposed schedule for remediation (note if remediation plan timel 	
Deferral Requests Only: Each of the following items must be confi	irmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around produce on the deconstruction.	duction equipment where remediation could cause a major facility
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 rules and regulations all operators are required to report and/or file cer which may endanger public health or the environment. The acceptance liability should their operations have failed to adequately investigate a surface water, human health or the environment. In addition, OCD ac responsibility for compliance with any other federal, state, or local law	rtain release notifications and perform corrective actions for releases ce of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, sceptance of a C-141 report does not relieve the operator of
Printed Name: Larry Baker	Title: Environmental Tech SR.
Signature: Larry Baker	Date: 6/10/2021
Signature: <u>Larry Baker</u> email: larry.baker@apachecorp.com	Telephone: 432-631-6982
OCD Only	
Received by: Chad Hensley	Date: 08/11/2021
Approved Approved with Attached Conditions of A	pproval Denied Deferral Approved
Signature: Child Hend	Date: 08/11/2021

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Tables

Table 1

Soil Sample Analytical Data Summary LM Lambert

Lea County, New Mexico

32° 36' 23.49" North, 103° 17' 13.77" West

Sample	Depth	Collection	Status	Benzene	BTEX	C6 - C12	C12 - C28	C28 - C35	ТРН	Chloride
	(Feet)	Date		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Remediation	Level:			10	50				100	600
SP-1	Surface	11/3/2020	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	5,120
	1	11/3/2020	In-Situ	<0.050	<0.300	<10.0	300	437	737	320
	2	11/4/2020	In-Situ	<0.050	<0.300	<10.0	88.4	119	207.4	
	3	11/4/2020	In-Situ	<0.050	<0.300	<10.0	88.8	89.5	178.3	
	4	11/18/2020	In-Situ	<0.050	<0.300	<10.0	77	96.3	173.3	
	5	11/18/2020	In-Situ	<0.050	<0.300	<10.0	150	161	311	
	6	11/20/2020	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	
	7	11/20/2020	In-Situ	<0.050	<0.300	<10.0	78.9	70.5	149.4	
	8	11/30/2020	In-Situ	<0.050	<0.300	<10.0	202	159	361	
	9	12/3/2020	In-Situ	<0.100	16.5	940	6,170	1,020	8,130	
	10	12/3/2020	In-Situ	<0.050	11.9	535	3,780	778	5,093	
	11	12/3/2020	In-Situ	<0.100	22.5	564	3,190	664	4,418	
	12	12/3/2020	In-Situ	<0.050	2.65	144	1,830	449	2,423	
	13	12/3/2020	In-Situ	<0.100	27.1	1,080	5,250	937	7,267	
	15	12/15/2020	In-Situ	<0.050	0.444	<10.0	204	22.6	226.6	
	20	12/15/2020	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	
	25	12/15/2020	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	
	30	12/15/2020	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	
	35	12/15/2020	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	
H1	Suface	11/4/2020	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	16
H2	Suface	11/4/2020	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32

Table 1

Soil Sample Analytical Data Summary LM Lambert

Lea County, New Mexico

32° 36' 23.49" North, 103° 17' 13.77" West

Sample	Depth (Feet)	Collection Date	Status	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C12 (mg/Kg)	C12 - C28 (mg/Kg)	C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
Remediation		Date		(iiig/ kg) 10	(iiig/ kg) 50	(111g/ Kg)	(iiig/ kg)	(ing/ kg) 100	(iiig/ kg) 600	
H3	Surface	11/4/2020	In-Situ	<0.050	< 0.300	<10.0	<10.0	<10.0	<10.0	32
		,,								-
H4	Surface	11/4/2020	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	96
SP-2	1	5/26/2021	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	2,080
	5	5/26/2021	In-Situ	<0.050	<0.300	<50.0	4,720	1,980	6,700	448
	10	5/26/2021	In-Situ	<0.050	7.50	70.3	998	268	1,336.3	512
	15	5/26/2021	In-Situ	<0.050	<0.300	<10.0	243	63.3	306.3	64.0
	20	5/26/2021	In-Situ	<0.050	2.18	19.2	326	68.7	413.9	48.0
	25	5/26/2021	In-Situ	<0.050	2.00	70.3	2,160	489	2,719.3	64.0
	30	5/26/2021	In-Situ	<0.050	0.634	27.6	668	170	865.6	80.0
	35	5/26/2021	In-Situ	<0.050	0.533	10.4	198	60.1	268.5	80.0
SP-3	1	5/26/2021	In-Situ	<0.050	<0.300	<10.0	373	185	558	96.0
	5	5/26/2021	In-Situ	<0.050	<0.300	<10.0	47.7	36.5	84.2	80.0
	10	5/26/2021	In-Situ	<0.050	<0.300	<10.0	173	186	359	496
	15	5/26/2021	In-Situ	<0.050	<0.300	<10.0	51.0	27.5	78.5	48.0
	20	5/26/2021	In-Situ	<0.050	<0.300	<10.0	161	71.6	232.6	32.0
	25	5/26/2021	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
	30	5/26/2021	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
	35	5/26/2021	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	32.0

Notes: Analysis performed byCardinal Laboratories (Cardinal) in Hobbs, New Mexico by EPA SW-846 8021B (BTEX), 8015M (TPH), and SM4500 (Chloride)

Depth in feet below ground surface (bgs)

mg/Kg: milligrams per kilogram equivalent to parts per million (ppm)

--: Denotes analyte not analyzed

Table 1

Soil Sample Analytical Data Summary LM Lambert

Lea County, New Mexico

32° 36' 23.49" North, 103° 17' 13.77" West

Sample	Depth	Collection	Status	Benzene	BTEX	C6 - C12	C12 - C28	C28 - C35	ТРН	Chloride
	(Feet)	Date		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
Remediation	Level:			10	50				100	600

<: denotes concentration less than analytical method reporting limit

Bold and Highlighted exceeds OCD remediation action limits

Figures



Figure 1 - Topographic Map



Figure 2 - Aerial Map Showing Proposed Soil Bore and Monitoring Well Locations

Appendix A

Boring Log

				E	BORING	RECORD										
		Start: 10	:15 MST		NC	Ŋ	F	PID	READ	DING		SA	AMP	LE	REMARKS	;
GEOLOGIC	DEPTH	Entrie 4			DESCRIPTION USCS	GRAPHIC LOG	PPN	ΛХ	1			~	DNG	RY	BACKGROU	
UNIT			CRIPTION LITI		SCR	HIH	2 4	68	10 12	14 16	18	NUMBER	PID READING	RECOVERY		
	0	5200		1020010	DE	GR						NUN	PID F	REC		PPM
	0		with Some												1	_
		Clasts, 5 Brown	YR 4/3, Re	ddish												_
		BIOWII														
	5 —	Caliche,	7.5YR 6/3,	Light											5	
		Brown, N	loderately C	Cemented		┢╌┸╌┰╌┸┥										_
	_															_
	10—	Fine to M	ledium San	d, 2.5YR											10	
	_		t Reddish B													
			to Sub Roui ely Sorted	nded,												_
	15	moderate	ely Soried													_
		, í	7.5 YR 6/3,	0										-	15	_
			loderately (/ Small Amo													_
	_		and, Very F													
	20	Angular	Sand												20	
	_		to Fine San	•												
	_		t Reddish B to Sub Angı													_
	25—	-	vith Some C	•											25	
	_	Clasts												Ĺ		_
																_
	30—		7.5 YR 8/1,											3	30	
Depth to	_		ely, Cement a Small An													
Water: 34.6	_		e Quartz Sa													_
	35	Angular													<u></u>	
	_		TD: 35'												35	_
	_															_
	40—											Н		4	40	-
																_
																-
	IE CONTINU	JOUS AUGER S	SAMPLER -	WATER TAE	BLE (TIME)	OF BORING)			JMBE			pa			1-0119-02	
ST	ANDARD P	ENETRATION T	EST		-	,				ETER				<u>3"</u>		
	IDISTURBE			+ PENETROM		NS/ SQ. FT)									<u>ea County</u> ermain	
	ATER TABL	E(24 HRS)	-	NR NO RECOVE											SDI	
Aarson & m	nc.		DRILL DATE : 5/26/2	021		NUMBER : P-2				ONTF ETHC			_			
Environmental Consulta	mis						12.0							_	-	

Appendix B

Lab Data Collected on May 26, 2021



May 28, 2021

BRUCE BAKER LARSON & ASSOCIATES, INC. 507 N. MARIENFELD, SUITE 200 MIDLAND, TX 79701

RE: LM LAMBERT

Enclosed are the results of analyses for samples received by the laboratory on 05/26/21 14:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. 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. Keine

Celey D. Keene Lab Director/Quality Manager



LARSON & ASSOCIATES, INC. BRUCE BAKER 507 N. MARIENFELD, SUITE 200 MIDLAND TX, 79701 Fax To: ?

Received:	05/26/2021	Sampling Date:	05/26/2021
Reported:	05/28/2021	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	Cool & Intact
Project Number:	21-0119-02	Sample Received By:	Tamara Oldaker
Project Location:	APACHE CORP		

Sample ID: SP - 2 1' (H211351-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2021	ND	1.96	97.8	2.00	5.76	
Toluene*	<0.050	0.050	05/27/2021	ND	2.02	101	2.00	6.71	
Ethylbenzene*	<0.050	0.050	05/27/2021	ND	1.95	97.4	2.00	7.21	
Total Xylenes*	<0.150	0.150	05/27/2021	ND	5.81	96.9	6.00	7.40	
Total BTEX	<0.300	0.300	05/27/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	05/27/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2021	ND	208	104	200	0.0578	
DRO >C10-C28*	<10.0	10.0	05/27/2021	ND	228	114	200	1.38	
EXT DRO >C28-C36	<10.0	10.0	05/27/2021	ND					
Surrogate: 1-Chlorooctane	<i>93.8</i>	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	94.8	% 38.9-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



LARSON & ASSOCIATES, INC. BRUCE BAKER 507 N. MARIENFELD, SUITE 200 MIDLAND TX, 79701 Fax To: ?

Received:	05/26/2021	Sampling Date:	05/26/2021
Reported:	05/28/2021	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	Cool & Intact
Project Number:	21-0119-02	Sample Received By:	Tamara Oldaker
Project Location:	APACHE CORP		

Sample ID: SP - 2 5' (H211351-02)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2021	ND	1.96	97.8	2.00	5.76	
Toluene*	<0.050	0.050	05/27/2021	ND	2.02	101	2.00	6.71	
Ethylbenzene*	0.152	0.050	05/27/2021	ND	1.95	97.4	2.00	7.21	
Total Xylenes*	<0.150	0.150	05/27/2021	ND	5.81	96.9	6.00	7.40	
Total BTEX	<0.300	0.300	05/27/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	153	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	05/27/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	05/27/2021	ND	208	104	200	0.0578	
DRO >C10-C28*	4720	50.0	05/27/2021	ND	228	114	200	1.38	
EXT DRO >C28-C36	1980	50.0	05/27/2021	ND					
Surrogate: 1-Chlorooctane	101	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	210	% 38.9-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



LARSON & ASSOCIATES, INC. BRUCE BAKER 507 N. MARIENFELD, SUITE 200 MIDLAND TX, 79701 Fax To: ?

Received:	05/26/2021	Sampling Date:	05/26/2021
Reported:	05/28/2021	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	Cool & Intact
Project Number:	21-0119-02	Sample Received By:	Tamara Oldaker
Project Location:	APACHE CORP		

Sample ID: SP - 2 10' (H211351-03)

BTEX 8021B	mg,	′kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2021	ND	1.96	97.8	2.00	5.76	
Toluene*	0.336	0.050	05/27/2021	ND	2.02	101	2.00	6.71	GC-NC1
Ethylbenzene*	1.87	0.050	05/27/2021	ND	1.95	97.4	2.00	7.21	
Total Xylenes*	5.29	0.150	05/27/2021	ND	5.81	96.9	6.00	7.40	GC-NC1
Total BTEX	7.50	0.300	05/27/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	141	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	05/27/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	70.3	50.0	05/27/2021	ND	208	104	200	0.0578	
DRO >C10-C28*	998	50.0	05/27/2021	ND	228	114	200	1.38	
EXT DRO >C28-C36	268	50.0	05/27/2021	ND					
Surrogate: 1-Chlorooctane	92.3	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	124	% 38.9-14	2						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



LARSON & ASSOCIATES, INC. BRUCE BAKER 507 N. MARIENFELD, SUITE 200 MIDLAND TX, 79701 Fax To: ?

Received:	05/26/2021	Sampling Date:	05/26/2021
Reported:	05/28/2021	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	Cool & Intact
Project Number:	21-0119-02	Sample Received By:	Tamara Oldaker
Project Location:	APACHE CORP		

Sample ID: SP - 2 15' (H211351-04)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2021	ND	1.96	97.8	2.00	5.76	
Toluene*	<0.050	0.050	05/27/2021	ND	2.02	101	2.00	6.71	
Ethylbenzene*	<0.050	0.050	05/27/2021	ND	1.95	97.4	2.00	7.21	
Total Xylenes*	0.232	0.150	05/27/2021	ND	5.81	96.9	6.00	7.40	GC-NC1
Total BTEX	<0.300	0.300	05/27/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/27/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2021	ND	208	104	200	0.0578	
DRO >C10-C28*	243	10.0	05/27/2021	ND	228	114	200	1.38	
EXT DRO >C28-C36	63.3	10.0	05/27/2021	ND					
Surrogate: 1-Chlorooctane	96.6	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	106 9	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



LARSON & ASSOCIATES, INC. BRUCE BAKER 507 N. MARIENFELD, SUITE 200 MIDLAND TX, 79701 Fax To: ?

Received:	05/26/2021	Sampling Date:	05/26/2021
Reported:	05/28/2021	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	Cool & Intact
Project Number:	21-0119-02	Sample Received By:	Tamara Oldaker
Project Location:	APACHE CORP		

Sample ID: SP - 2 20' (H211351-05)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2021	ND	1.96	97.8	2.00	5.76	
Toluene*	0.089	0.050	05/27/2021	ND	2.02	101	2.00	6.71	GC-NC1
Ethylbenzene*	0.533	0.050	05/27/2021	ND	1.95	97.4	2.00	7.21	
Total Xylenes*	1.56	0.150	05/27/2021	ND	5.81	96.9	6.00	7.40	GC-NC1
Total BTEX	2.18	0.300	05/27/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	149	% 69.9-14	10						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/27/2021	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	19.2	10.0	05/27/2021	ND	208	104	200	0.0578	
DRO >C10-C28*	326	10.0	05/27/2021	ND	228	114	200	1.38	
EXT DRO >C28-C36	68.7	10.0	05/27/2021	ND					
Surrogate: 1-Chlorooctane	104	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	116 9	% 38.9-14	12						

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LARSON & ASSOCIATES, INC. BRUCE BAKER 507 N. MARIENFELD, SUITE 200 MIDLAND TX, 79701 Fax To: ?

Received:	05/26/2021	Sampling Date:	05/26/2021
Reported:	05/28/2021	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	Cool & Intact
Project Number:	21-0119-02	Sample Received By:	Tamara Oldaker
Project Location:	APACHE CORP		

Sample ID: SP - 2 25' (H211351-06)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2021	ND	1.96	97.8	2.00	5.76	
Toluene*	0.075	0.050	05/27/2021	ND	2.02	101	2.00	6.71	GC-NC
Ethylbenzene*	0.393	0.050	05/27/2021	ND	1.95	97.4	2.00	7.21	
Total Xylenes*	1.53	0.150	05/27/2021	ND	5.81	96.9	6.00	7.40	GC-NC
Total BTEX	2.00	0.300	05/27/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	161	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/27/2021	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	70.3	10.0	05/27/2021	ND	208	104	200	0.0578	
DRO >C10-C28*	2160	10.0	05/27/2021	ND	228	114	200	1.38	
EXT DRO >C28-C36	489	10.0	05/27/2021	ND					
Surrogate: 1-Chlorooctane	111 9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	139	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



LARSON & ASSOCIATES, INC. BRUCE BAKER 507 N. MARIENFELD, SUITE 200 MIDLAND TX, 79701 Fax To: ?

Received:	05/26/2021	Sampling Date:	05/26/2021
Reported:	05/28/2021	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	Cool & Intact
Project Number:	21-0119-02	Sample Received By:	Tamara Oldaker
Project Location:	APACHE CORP		

Sample ID: SP - 2 30' (H211351-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	05/27/2021	ND	1.96	97.8	2.00	5.76	
Toluene*	<0.050	0.050	05/27/2021	ND	2.02	101	2.00	6.71	
Ethylbenzene*	<0.050	0.050	05/27/2021	ND	1.95	97.4	2.00	7.21	
Total Xylenes*	0.634	0.150	05/27/2021	ND	5.81	96.9	6.00	7.40	GC-NC
Total BTEX	0.634	0.300	05/27/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	123 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/27/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	27.6	10.0	05/27/2021	ND	208	104	200	0.0578	
DRO >C10-C28*	668	10.0	05/27/2021	ND	228	114	200	1.38	
EXT DRO >C28-C36	170	10.0	05/27/2021	ND					
Surrogate: 1-Chlorooctane	98.1	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	117 9	6 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



LARSON & ASSOCIATES, INC. BRUCE BAKER 507 N. MARIENFELD, SUITE 200 MIDLAND TX, 79701 Fax To: ?

Received:	05/26/2021	Sampling Date:	05/26/2021
Reported:	05/28/2021	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	Cool & Intact
Project Number:	21-0119-02	Sample Received By:	Tamara Oldaker
Project Location:	APACHE CORP		

Sample ID: SP - 2 35' (H211351-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2021	ND	1.96	97.8	2.00	5.76	
Toluene*	<0.050	0.050	05/27/2021	ND	2.02	101	2.00	6.71	
Ethylbenzene*	<0.050	0.050	05/27/2021	ND	1.95	97.4	2.00	7.21	
Total Xylenes*	0.533	0.150	05/27/2021	ND	5.81	96.9	6.00	7.40	GC-NC1
Total BTEX	0.533	0.300	05/27/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/27/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	10.4	10.0	05/27/2021	ND	208	104	200	0.0578	
DRO >C10-C28*	198	10.0	05/27/2021	ND	228	114	200	1.38	
EXT DRO >C28-C36	60.1	10.0	05/27/2021	ND					
Surrogate: 1-Chlorooctane	100 9	44.3-13	3						
Surrogate: 1-Chlorooctadecane	108 9	38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



LARSON & ASSOCIATES, INC. BRUCE BAKER 507 N. MARIENFELD, SUITE 200 MIDLAND TX, 79701 Fax To: ?

Received:	05/26/2021	Sampling Date:	05/26/2021
Reported:	05/28/2021	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	Cool & Intact
Project Number:	21-0119-02	Sample Received By:	Tamara Oldaker
Project Location:	APACHE CORP		

Sample ID: SP - 3 1' (H211351-09)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2021	ND	1.96	97.8	2.00	5.76	
Toluene*	<0.050	0.050	05/27/2021	ND	2.02	101	2.00	6.71	
Ethylbenzene*	<0.050	0.050	05/27/2021	ND	1.95	97.4	2.00	7.21	
Total Xylenes*	<0.150	0.150	05/27/2021	ND	5.81	96.9	6.00	7.40	
Total BTEX	<0.300	0.300	05/27/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/27/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2021	ND	208	104	200	0.0578	
DRO >C10-C28*	373	10.0	05/27/2021	ND	228	114	200	1.38	
EXT DRO >C28-C36	185	10.0	05/27/2021	ND					
Surrogate: 1-Chlorooctane	102 9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	117 9	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



LARSON & ASSOCIATES, INC. BRUCE BAKER 507 N. MARIENFELD, SUITE 200 MIDLAND TX, 79701 Fax To: ?

Received:	05/26/2021	Sampling Date:	05/26/2021
Reported:	05/28/2021	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	Cool & Intact
Project Number:	21-0119-02	Sample Received By:	Tamara Oldaker
Project Location:	APACHE CORP		

Sample ID: SP - 3 5' (H211351-10)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2021	ND	1.96	97.8	2.00	5.76	
Toluene*	<0.050	0.050	05/27/2021	ND	2.02	101	2.00	6.71	
Ethylbenzene*	<0.050	0.050	05/27/2021	ND	1.95	97.4	2.00	7.21	
Total Xylenes*	<0.150	0.150	05/27/2021	ND	5.81	96.9	6.00	7.40	
Total BTEX	<0.300	0.300	05/27/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/27/2021	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2021	ND	208	104	200	0.0578	
DRO >C10-C28*	47.7	10.0	05/27/2021	ND	228	114	200	1.38	
EXT DRO >C28-C36	36.5	10.0	05/27/2021	ND					
Surrogate: 1-Chlorooctane	98.9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	101 9	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



LARSON & ASSOCIATES, INC. BRUCE BAKER 507 N. MARIENFELD, SUITE 200 MIDLAND TX, 79701 Fax To: ?

Received:	05/26/2021	Sampling Date:	05/26/2021
Reported:	05/28/2021	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	Cool & Intact
Project Number:	21-0119-02	Sample Received By:	Tamara Oldaker
Project Location:	APACHE CORP		

Sample ID: SP - 3 10' (H211351-11)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2021	ND	1.96	97.8	2.00	5.76	
Toluene*	<0.050	0.050	05/27/2021	ND	2.02	101	2.00	6.71	
Ethylbenzene*	<0.050	0.050	05/27/2021	ND	1.95	97.4	2.00	7.21	
Total Xylenes*	<0.150	0.150	05/27/2021	ND	5.81	96.9	6.00	7.40	
Total BTEX	<0.300	0.300	05/27/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	05/27/2021	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2021	ND	208	104	200	0.0578	
DRO >C10-C28*	173	10.0	05/27/2021	ND	228	114	200	1.38	
EXT DRO >C28-C36	186	10.0	05/27/2021	ND					
Surrogate: 1-Chlorooctane	96.0	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	109	% 38.9-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



LARSON & ASSOCIATES, INC. BRUCE BAKER 507 N. MARIENFELD, SUITE 200 MIDLAND TX, 79701 Fax To: ?

Received:	05/26/2021	Sampling Date:	05/26/2021
Reported:	05/28/2021	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	Cool & Intact
Project Number:	21-0119-02	Sample Received By:	Tamara Oldaker
Project Location:	APACHE CORP		

Sample ID: SP - 3 15' (H211351-12)

BTEX 8021B	mg	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2021	ND	1.96	97.8	2.00	5.76	
Toluene*	<0.050	0.050	05/27/2021	ND	2.02	101	2.00	6.71	
Ethylbenzene*	<0.050	0.050	05/27/2021	ND	1.95	97.4	2.00	7.21	
Total Xylenes*	<0.150	0.150	05/27/2021	ND	5.81	96.9	6.00	7.40	
Total BTEX	<0.300	0.300	05/27/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.1	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/27/2021	ND	416	104	400	0.00	
TPH 8015M	mg	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2021	ND	208	104	200	1.61	
DRO >C10-C28*	51.0	10.0	05/27/2021	ND	221	110	200	6.11	
EXT DRO >C28-C36	27.5	10.0	05/27/2021	ND					
Surrogate: 1-Chlorooctane	110	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	117	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



LARSON & ASSOCIATES, INC. BRUCE BAKER 507 N. MARIENFELD, SUITE 200 MIDLAND TX, 79701 Fax To: ?

Received:	05/26/2021	Sampling Date:	05/26/2021
Reported:	05/28/2021	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	Cool & Intact
Project Number:	21-0119-02	Sample Received By:	Tamara Oldaker
Project Location:	APACHE CORP		

Sample ID: SP - 3 20' (H211351-13)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2021	ND	1.96	97.8	2.00	5.76	
Toluene*	<0.050	0.050	05/27/2021	ND	2.02	101	2.00	6.71	
Ethylbenzene*	<0.050	0.050	05/27/2021	ND	1.95	97.4	2.00	7.21	
Total Xylenes*	<0.150	0.150	05/27/2021	ND	5.81	96.9	6.00	7.40	
Total BTEX	<0.300	0.300	05/27/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/27/2021	ND	400	100	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2021	ND	208	104	200	1.61	
DRO >C10-C28*	161	10.0	05/27/2021	ND	221	110	200	6.11	
EXT DRO >C28-C36	71.6	10.0	05/27/2021	ND					
Surrogate: 1-Chlorooctane	109 9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	122 9	% 38.9-14	2						

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Celey D. Keene, Lab Director/Quality Manager



LARSON & ASSOCIATES, INC. BRUCE BAKER 507 N. MARIENFELD, SUITE 200 MIDLAND TX, 79701 Fax To: ?

Received:	05/26/2021	Sampling Date:	05/26/2021
Reported:	05/28/2021	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	Cool & Intact
Project Number:	21-0119-02	Sample Received By:	Tamara Oldaker
Project Location:	APACHE CORP		

Sample ID: SP - 3 25' (H211351-14)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2021	ND	1.96	97.8	2.00	5.76	
Toluene*	<0.050	0.050	05/27/2021	ND	2.02	101	2.00	6.71	
Ethylbenzene*	<0.050	0.050	05/27/2021	ND	1.95	97.4	2.00	7.21	
Total Xylenes*	<0.150	0.150	05/27/2021	ND	5.81	96.9	6.00	7.40	
Total BTEX	<0.300	0.300	05/27/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 \$	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/27/2021	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2021	ND	208	104	200	1.61	
DRO >C10-C28*	<10.0	10.0	05/27/2021	ND	221	110	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	05/27/2021	ND					
Surrogate: 1-Chlorooctane	113 9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	116 9	% 38.9-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



LARSON & ASSOCIATES, INC. BRUCE BAKER 507 N. MARIENFELD, SUITE 200 MIDLAND TX, 79701 Fax To: ?

Received:	05/26/2021	Sampling Date:	05/26/2021
Reported:	05/28/2021	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	Cool & Intact
Project Number:	21-0119-02	Sample Received By:	Tamara Oldaker
Project Location:	APACHE CORP		

Sample ID: SP - 3 30' (H211351-15)

BTEX 8021B	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2021	ND	1.96	97.8	2.00	5.76	
Toluene*	<0.050	0.050	05/27/2021	ND	2.02	101	2.00	6.71	
Ethylbenzene*	<0.050	0.050	05/27/2021	ND	1.95	97.4	2.00	7.21	
Total Xylenes*	<0.150	0.150	05/27/2021	ND	5.81	96.9	6.00	7.40	
Total BTEX	<0.300	0.300	05/27/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result Reporting Lir		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/27/2021	ND	400	100	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2021	ND	208	104	200	1.61	
DRO >C10-C28*	<10.0	10.0	05/27/2021	ND	221	110	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	05/27/2021	ND					
Surrogate: 1-Chlorooctane	110 9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	113 9	% 38.9-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



LARSON & ASSOCIATES, INC. BRUCE BAKER 507 N. MARIENFELD, SUITE 200 MIDLAND TX, 79701 Fax To: ?

Received:	05/26/2021	Sampling Date:	05/26/2021
Reported:	05/28/2021	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	Cool & Intact
Project Number:	21-0119-02	Sample Received By:	Tamara Oldaker
Project Location:	APACHE CORP		

Sample ID: SP - 3 35' (H211351-16)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2021	ND	1.96	97.8	2.00	5.76	
Toluene*	<0.050	0.050	05/27/2021	ND	2.02	101	2.00	6.71	
Ethylbenzene*	<0.050	0.050	05/27/2021	ND	1.95	97.4	2.00	7.21	
Total Xylenes*	<0.150	0.150	05/27/2021	ND	5.81	96.9	6.00	7.40	
Total BTEX	<0.300	0.300	05/27/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	98. <i>3</i>	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result Reporting Limi		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/27/2021	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2021	ND	208	104	200	1.61	
DRO >C10-C28*	<10.0	10.0	05/27/2021	ND	221	110	200	6.11	
EXT DRO >C28-C36	<10.0	10.0	05/27/2021	ND					
Surrogate: 1-Chlorooctane	113 9	% 44.3-13	3						
Surrogate: 1-Chlorooctadecane	116 9	% 38.9-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-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 SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

R	eceive	ed by	OCD:	6/1	0/20	21 8	.48:	57 A	M	6	Q	<u> </u>	ノイ		5	4	i	2	-								Page	33 of 9	95
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Appendix C

Apache Remediation Plan



303 Veterans Airpark Lane Midland, TX 79705

Remediation Plan

December 21, 2020

Re: LM Lambert Case #: NRM2024463389

Background:

On 08/24/2020 a release occurred at the LM Lambert Battery due to a line failure resulting in the loss of fluid. The release (GPS: 32.60642, -103.28715) is located south of Monument, NM in unit letter B section 6 township 20S range 37E. A groundwater survey was conducted utilizing the NMOSE wells of record. The 2 nearest wells of record suggest groundwater is less than 50 feet with the shallowest well 20 feet to groundwater but water was not encounter during the soil bore to a depth of 35 feet. This suggest that groundwater is at minimum 37 feet indicated by data from the second well of record.

Beginning on 11/3/2020 through 12/3/2020 vertical delineation was conducted utilizing a backhoe to a depth of 13 feet. The surface and 1 foot samples were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX on 11/3/2020. Laboratory chloride results were below table one standards for release less than or equal to 50 feet to groundwater. The 2 feet to 13 feet samples were collected and submitted to a commercial laboratory for analysis of TPH and BTEX. Horizontal 5 point composite surface samples were collected not to exceed 200 square feet and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX.

On 12/15/2020 a soil bore was conducted at SP 1 was advanced in regular intervals beginning at 15 feet and advanced to a total depth of 35 feet below ground surface. All samples were collected utilizing a split spoon and submitted to a commercial laboratory for analysis for TPH and BTEX. Laboratory results were below table one standards for TPH and BTEX at a depth of 20 feet.

Remediation Plan:

Apache Corporation purposes that the top foot be excavated to a depth of 1 foot to remove the chloride contamination to below table one standards. Once the excavation is complete final 5 point bottom and wall samples will be collected not to exceed 200 square feet. Due to the release is inside an active facility within close proximity to processing equipment and the depth of contamination Apache Corporation will submit the final sample data and ask for deferment until system abandonment in the final report. All excavated soil (75 yards) will be hauled to a OCD approved disposal facility. The excavation will be backfilled with clean imported caliche. 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
Received by OCD: 6/10/2021 8:48:57 AM Submitted by;

Bruce Baker

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

.

Received by OCD: 6/10/2021 8:48:57 AM Form C-141 State of New Mexico

Oil Conservation Division

	Page 38 of 95
Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🔽 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🔽 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🔽 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🔽 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🔽 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🔽 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 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
- \checkmark Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- \checkmark Boring or excavation logs
 - Photographs including date and GIS information
 - Z 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.

Corm C-141 Page 4 Oil Conserv	Jew Mexico ration Division	Incident ID District RP Facility ID	Page 39 of			
		Application ID				
I hereby certify that the information given above is true regulations all operators are required to report and/or fil- public health or the environment. The acceptance of a C failed to adequately investigate and remediate contamin- addition, OCD acceptance of a C-141 report does not re- and/or regulations. Printed Name: Larry Baker	Le certain release notifications and perform C-141 report by the OCD does not relieve lation that pose a threat to groundwater, su clieve the operator of responsibility for con- Title: Environm	n corrective actions for releases whethe operator of liability should the urface water, human health or the empliance with any other federal, st mental Tech SR.	nich may endanger eir operations have environment. In			
Signature: Larry Baker	Date: 12/21/20	020				
Signature: Larry Baker email: larry.baker@apachecorp.com	Telephone: <u>432</u>	Telephone: 432-631-6982				
OCD Only						
Received by:	Date:					

Received by OCD: 6/10/2021 8:48:57 AM Form C-141 State of New Mexico

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

<u>Remediation Plan Checklist</u>: 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

 $\overline{\mathbf{\nabla}}$ 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 pr deconstruction.	oduction equipment where remediation could cause a major facility						
Extents of contamination must be fully delineated.							
Contamination does not cause an imminent risk to human health	, the environment, or groundwater.						
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.							
Printed Name: Larry Baker	Title: Environmental Tech SR.						
Signature: Larry Baker	Date: 12/21/2020						
Signature: <u>Larry Baker</u> email: larry.baker@apachecorp.com	Date: <u>12/21/2020</u> Telephone: <u>432-631-6982</u>						
OCD Only							
Received by:	Date:						
Approved Approved with Attached Conditions of A	Approval Denied Deferral Approved						
Signature:	Date:						

Page 5



Water Rights Reporting System Online Meter Reading

Received by OCD: 6/10/2021 8:48:57 ANNew Mexico Office of the State Engineer Point of Diversion Summary

			rs are 1=N ers are sma			(NAD83 UTM in meters)			
Well Tag POD	Number	Q64 Q	Q16 Q4	Sec	Tws	Rng	X	Y	
L 0	3810	4	4 1	06	20S	37E	660286	3608580*	
Driller License:	111	Driller	Compar	ıy:	BU	RKE, EI	DWARD B.		
Driller Name:									
Drill Start Date:	03/09/1958	Drill Fi	nish Dat	te:	0.	3/09/195	8 Ph	ug Date:	
Log File Date:	03/19/1958	PCW R	cv Date				So	urce:	Shallow
Pump Type:		Pipe Dis	scharge	Size	:		Es	timated Yield	:
Casing Size:	7.00	Depth V	Well:		8	5 feet	De	37 feet	
Wate	er Bearing Stratii	fications:	To	p 1	Bottom	Descr	iption		
			2	10	68	Sands	tone/Gravel	Conglomerate	e
	Casing Per	forations:	To	p 1	Bottom				
			2	12	82				

*UTM location was derived from PLSS - see Help

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

11/19/20 12:04 PM

POINT OF DIVERSION SUMMARY

Page 42 of 95



Received by OCD: 6/10/2021 8:48:57 AM New Mexico Office of the State Engineer **Point of Diversion Summary**

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)					(NAD83 U		
Well Tag PC	D Number				Tws		X	Y	
L	01450		3 1	05	20S	37E	661393	3608698*	
Driller License:	: 46	Driller C	ompar	ıy:	AB	BOTT E	BROTHERS	COMPANY	
Driller Name:									
Drill Start Date	: 05/19/1952	Drill Fin	ish Da	te:	0:	5/20/195	52 Pl	ug Date:	
Log File Date:	05/26/1952	PCW Re	v Date		10	0/22/195	53 So	urce:	Shallow
Pump Type:		Pipe Dis	charge	Size	:		Es	timated Yield	
Casing Size:	7.00	Depth W	ell:		80 feet		De	Depth Water:	
Wa	ater Bearing Strati	fications:	To	p 1	Bottom	Desci	ription		
10.000				50	80	Sands	stone/Grave	1/Conglomerat	e
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			-	50	80				

*UTM location was derived from PLSS - see Help

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

11/19/20 11:57 AM

POINT OF DIVERSION SUMMARY

Page 43 of 95





Google earth

lat 32.606243° lon -103.286622° elev 3565 ft eye alt 4004 ft 🕒

NEDU Injection Line

Sample	Sample ID	Depth	Field	Chloride	Benzene	Toulene	Ethybenzene	Total	Total	GRO	DRO	EXT DRO	GPS Coordinates
Date			Chloride					Xylenes	BTEX				
Delineation an	d Horizontal Samp	oling											
													32.606524
11/3/2020	SP1	Surface	4,423	5120	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.287159
11/3/2020		1'	356	320	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	300	437	
11/4/2020		2'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	88.4	119	
11/4/2020		3'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	88.8	89.5	
11/18/2020		4'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	77	96.3	
11/18/2020		5'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	150	161	
11/20/2020		6'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
11/20/2020		7'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	78.9	70.5	
11/30/2020		8'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	202	159	
12/3/2020		9'			<0.100	0.407	5.94	10.100	16.5	940	6170	1020	
12/3/2020		10'			<0.050	0.583	5.64	5.720	11.9	535	3780	778	
12/3/2020		11'			<0.100	0.979	9.36	12.200	22.5	564	3190	664	
12/3/2020		12'			<0.050	0.126	1.41	1.120	2.65	144	1830	449	
12/3/2020		13'			<0.100	1.68	11.5	13.900	27.1	1080	5250	937	
12/15/2020		15'			<0.050	<0.050	0.189	0.232	0.444	<10.0	204	22.6	
12/15/2020		20'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
12/15/2020		25'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
12/15/2020		30'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
12/15/2020		35'			<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
													32.606530
11/4/2020	H1	Surface	143	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.287230
													32.606718
11/4/2020	H2	Surface	149	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.287150
													32.606526
11/4/2020	H3	Surface	147	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.287113
													32.606350
11/4/2020	H4	Surface	144	96	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.287164



November 04, 2020

BRUCE BAKER APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS, NM 88240

RE: LM LAMBERT

Enclosed are the results of analyses for samples received by the laboratory on 11/03/20 15:52.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	11/03/2020	Sampling Date:	11/03/2020
Reported:	11/04/2020	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ SURFACE (H002909-01)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/03/2020	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	11/03/2020	ND	2.01	101	2.00	1.23	
Ethylbenzene*	<0.050	0.050	11/03/2020	ND	2.02	101	2.00	0.408	
Total Xylenes*	<0.150	0.150	11/03/2020	ND	5.85	97.6	6.00	0.240	
Total BTEX	<0.300	0.300	11/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	11/04/2020	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/03/2020	ND	208	104	200	0.804	
DRO >C10-C28*	<10.0	10.0	11/03/2020	ND	210	105	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	11/03/2020	ND					
Surrogate: 1-Chlorooctane	81.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	87.8	% 42.2-15	6						

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*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BRUCE BA	1arland Blvd.		
		Fax To:	(575) 393-2432	2	
Received:	11/03/2020			Sampling Date:	11/03/2020
Reported:	11/04/2020			Sampling Type:	Soil
Project Name:	LM LAMBERT			Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN				

Sample ID: SP 1 @ 1' (H002909-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/03/2020	ND	2.07	103	2.00	1.27	
Toluene*	<0.050	0.050	11/03/2020	ND	2.01	101	2.00	1.23	
Ethylbenzene*	<0.050	0.050	11/03/2020	ND	2.02	101	2.00	0.408	
Total Xylenes*	<0.150	0.150	11/03/2020	ND	5.85	97.6	6.00	0.240	
Total BTEX	<0.300	0.300	11/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	11/04/2020	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/04/2020	ND	208	104	200	0.804	
DRO >C10-C28*	300	10.0	11/04/2020	ND	210	105	200	1.06	
EXT DRO >C28-C36	437	10.0	11/04/2020	ND					
Surrogate: 1-Chlorooctane	103	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	140	% 42.2-15	6						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Delivered By: (Circle One) Obse	Relinquished By:	ASE NOTE: Liability and Damages. Cardinal's liability and client's a yees. All claims including those for negligence and any other cause ce. In no event shall Cardinal be liable for incidential or consequent was a successors attrice out of or related to the performance of se	250101	1 SP10 Switzer	Lab I.D. Sample I.D.	Sampler Name: (/ER /Yukan	Project Location: LM LAMBERT	Project Name: UN LAMBERT	 1e #:		Address:	Ruch ba	Company Name: Anche Com
Observed Temp. °C 7. Sample Condition CHECKED BY: Cool Intact (Initials) Corrected Temp. °C	Date: 11/3/20 Received By: Time: /STA DULLARA Ullabor Date: Bederved By:	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim ansing whether based in contract or tor, shall be limited to the amount pad 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 shall be limited to the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received shall be derived by Clandinal which 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoevers shall be deemed waived unless made in writing and received by Clandinal which 30 days after completions of the applicable science. In no event shall Cardinal be for incidental or consequential damages, including without imitation, business interruptions, loss of use, or loss of profils incurred by client, its subsidiaries, science or encoursed and of or related to the performance of services hereunder by Cardinal, respardless of whether such claim is based upon any of the above saled reasons or otherwise, science or encoursed on the other client of services hereunder by Cardinal, respardless of whether such claim is based upon any of the above saled reasons or otherwise.	oule hu		G)RAB OR (C)OMP. CONTAINERS ROUNDWATER VASTEWATER GOIL DIL SLUDGE DTHER : ACID/BASE: CE / COOL DTHER :	MATRIX PRESERV. SAMPLING	Fax #		Fax #: Address:	State: Zip: Attn:	Company:	P.O. #	Convertien BILL TO
Turnaround Time: Standard Bacteria (only) sample convincements Turnaround Time: Rush Cool Intact Observed Temp. °C Thermometer ID #97 #13 To Pyes Yes Correction Factor 104 °C 10/3/20 No No Corrected Temp. °C	ailed. Please provide Ema	Yes			CL- BTEZ EXT. TPI								ANALISIS INERCES

Page 51 of 95



November 09, 2020

BRUCE BAKER APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS, NM 88240

RE: LM LAMBERT

Enclosed are the results of analyses for samples received by the laboratory on 11/04/20 14:06.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	11/04/2020	Sampling Date:	11/04/2020
Reported:	11/09/2020	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: H 1 (H002924-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2020	ND	1.93	96.3	2.00	5.05	
Toluene*	<0.050	0.050	11/05/2020	ND	1.87	93.7	2.00	5.48	
Ethylbenzene*	<0.050	0.050	11/05/2020	ND	1.86	93.0	2.00	4.69	
Total Xylenes*	<0.150	0.150	11/05/2020	ND	5.40	90.0	6.00	4.74	
Total BTEX	<0.300	0.300	11/05/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 73.3-12	9						
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	11/05/2020	ND	400	100	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	11/05/2020	ND	241	120	200	1.93	
DRO >C10-C28*	<10.0	10.0	11/05/2020	ND	226	113	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	11/05/2020	ND					
Surrogate: 1-Chlorooctane	98.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	92.8	% 42.2-15	6						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



NOT GIVEN

Analytical Results For:

		APACHE C	ORP - HOBBS		
		BRUCE BA	KER		
		2350 W. M	1arland Blvd.		
		HOBBS NN	4, 88240		
		Fax To:	(575) 393-2432	2	
Received:	11/04/2020			Sampling Date:	11/04/2020
Reported:	11/09/2020			Sampling Type:	Soil
Project Name:	LM LAMBERT			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker

Sample ID: H 2 (H002924-02)

Project Location:

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2020	ND	1.93	96.3	2.00	5.05	
Toluene*	<0.050	0.050	11/05/2020	ND	1.87	93.7	2.00	5.48	
Ethylbenzene*	<0.050	0.050	11/05/2020	ND	1.86	93.0	2.00	4.69	
Total Xylenes*	<0.150	0.150	11/05/2020	ND	5.40	90.0	6.00	4.74	
Total BTEX	<0.300	0.300	11/05/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 73.3-12	9						
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	11/05/2020	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2020	ND	241	120	200	1.93	
DRO >C10-C28*	<10.0	10.0	11/05/2020	ND	226	113	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	11/05/2020	ND					
Surrogate: 1-Chlorooctane	87.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	81.7	% 42.2-15	6						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



NOT GIVEN

Analytical Results For:

		APACHE C	ORP - HOBBS		
		BRUCE BA	KER		
		2350 W. M	1arland Blvd.		
		HOBBS NN	4, 88240		
		Fax To:	(575) 393-2432	2	
Received:	11/04/2020			Sampling Date:	11/04/2020
Reported:	11/09/2020			Sampling Type:	Soil
Project Name:	LM LAMBERT			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker

Sample ID: H 3 (H002924-03)

Project Location:

BTEX 8021B	mg	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2020	ND	1.93	96.3	2.00	5.05	
Toluene*	<0.050	0.050	11/05/2020	ND	1.87	93.7	2.00	5.48	
Ethylbenzene*	<0.050	0.050	11/05/2020	ND	1.86	93.0	2.00	4.69	
Total Xylenes*	<0.150	0.150	11/05/2020	ND	5.40	90.0	6.00	4.74	
Total BTEX	<0.300	0.300	11/05/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.4	% 73.3-12	9						
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	11/05/2020	ND	400	100	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	11/05/2020	ND	241	120	200	1.93	
DRO >C10-C28*	<10.0	10.0	11/05/2020	ND	226	113	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	11/05/2020	ND					
Surrogate: 1-Chlorooctane	86.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	80.5	% 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BRUCE BAK	ARLAND BLVD.		
		Fax To:	(575) 393-2432		
Received:	11/04/2020			Sampling Date:	11/04/2020
Reported:	11/09/2020			Sampling Type:	Soil
Project Name:	LM LAMBERT			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN				

Sample ID: H 4 (H002924-04)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2020	ND	1.93	96.3	2.00	5.05	
Toluene*	<0.050	0.050	11/05/2020	ND	1.87	93.7	2.00	5.48	
Ethylbenzene*	<0.050	0.050	11/05/2020	ND	1.86	93.0	2.00	4.69	
Total Xylenes*	<0.150	0.150	11/05/2020	ND	5.40	90.0	6.00	4.74	
Total BTEX	<0.300	0.300	11/05/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.7	% 73.3-12	9						
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	11/05/2020	ND	400	100	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	11/06/2020	ND	241	120	200	1.93	
DRO >C10-C28*	<10.0	10.0	11/06/2020	ND	226	113	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	11/06/2020	ND					
Surrogate: 1-Chlorooctane	89.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	83.7	% 42.2-15	6						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Company Name: (Land Carputation) Project Manager: Rate: Company Name: Address: Carputation) State: Zi City: Fax State: Zi Phone #: Fax Fax #: Project Owner: Project Name: CM LAMBERT Project Owner: Sampler Name: JET Brown For UABUSE OWLY State: State:	p: BILL 7 P.O. #: Company: Address: City: State: Zip: Phone #: Phone #: Fax #: PRESERV.	SAMPLING
FOR LAB USE ONLY Lab I.D. Sample I.D. Hoodgatt 1 // 1 2 // 1	SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	1317 1317
4		n pad by the client for the
analyses. All claims including those for negligence and any other cause whats service. In no event shall Cardinal be liable for incidental or consequential dark affiliates or successors arisimo out of or related to the performance of services be Relinquished BY: Date:	analyses. All claims including those for negligence and any other cause winassoever share or exercise to use set of each of the source by cleim, it is subsidiared, service. In no event shall Cardinal be liable for incidental or consequential damages, including whole limitation, business interruptions, loss of use, or loss of profits incurred by cleim, it is subsidiared, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise, affiliates or 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 resons or otherwise, 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 resons or otherwise, and any other such claim is based upon any of the above stated resons or otherwise. The performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated resons or otherwise. The performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated resons or otherwise. The performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated resons or otherwise. The performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated resons or otherwise. The performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated resons or otherwise. The performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated resons. The performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reservice hereunder by Cardina	ad reasons or otherwise. Verbal Result: Ves No Add'l Phone #: All Results are emailed. Please provide Email address:
Relinquished By: Time: Date: Time:	Received By: A Willing	REMARKS:
Delivered By: (Circle One) Observer Sampler - UPS - Bus - Other: Correcte	Observed Temp. °C 4.4 Sample Condition CHECKED BY: Cool Intact (Initials) Corrected Temp. °C Ares Fes No No No	Turnaround Time: Standard M Bacteria (only) Sample Convision Thermometer ID 497-47/13 7.2 Cool Intact Observed Temp. Correction Factor +0.4-9 ///4/20 No No Corrected Temp.
PORM-000 R 3.0	Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com	changes to celey.keene@cardinallabsnm.com

Page 7 of 7



November 09, 2020

BRUCE BAKER APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS, NM 88240

RE: LM LAMBERT

Enclosed are the results of analyses for samples received by the laboratory on 11/04/20 14:06.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



NOT GIVEN

Analytical Results For:

		APACHE CORP - H	OBBS				
		BRUCE BAKER					
		2350 W. MARLAND	D BLVD.				
		HOBBS NM, 88240					
		Fax To: (575)) 393-2432				
Received:	11/04/2020		Sampling Date:	11/04/2020			
Reported:	11/09/2020		Sampling Type:	Soil			
Project Name:	LM LAMBERT		Sampling Condition:	Cool & Intact			
Project Number:	NONE GIVEN		Sample Received By:	Tamara Oldaker			

Sample ID: SP 1 @ 2' (H002925-01)

Project Location:

BTEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2020	ND	1.93	96.3	2.00	5.05	
Toluene*	<0.050	0.050	11/05/2020	ND	1.87	93.7	2.00	5.48	
Ethylbenzene*	<0.050	0.050	11/05/2020	ND	1.86	93.0	2.00	4.69	
Total Xylenes*	<0.150	0.150	11/05/2020	ND	5.40	90.0	6.00	4.74	
Total BTEX	<0.300	0.300	11/05/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5 9	73.3-12	9						
TPH 8015M	mg/	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	11/06/2020	ND	241	120	200	1.93	
DRO >C10-C28*	88.4	10.0	11/06/2020	ND	226	113	200	3.41	
EXT DRO >C28-C36	119	10.0	11/06/2020	ND					
Surrogate: 1-Chlorooctane	103 %	<i>44.3-14</i>	4						

Cardinal Laboratories

*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BRUCE BA	1arland Blvd.		
		Fax To:	(575) 393-2432	2	
Received:	11/04/2020			Sampling Date:	11/04/2020
Reported:	11/09/2020			Sampling Type:	Soil
Project Name:	LM LAMBERT			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN				

Sample ID: SP 1 @ 3' (H002925-02)

BTEX 8021B	mg/	'kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2020	ND	1.93	96.3	2.00	5.05	
Toluene*	<0.050	0.050	11/05/2020	ND	1.87	93.7	2.00	5.48	
Ethylbenzene*	<0.050	0.050	11/05/2020	ND	1.86	93.0	2.00	4.69	
Total Xylenes*	<0.150	0.150	11/05/2020	ND	5.40	90.0	6.00	4.74	
Total BTEX	<0.300	0.300	11/05/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.1	% 73.3-12	9						
TPH 8015M	mg/	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	11/06/2020	ND	241	120	200	1.93	
DRO >C10-C28*	88.8	10.0	11/06/2020	ND	226	113	200	3.41	
EXT DRO >C28-C36	89.5	10.0	11/06/2020	ND					
Surrogate: 1-Chlorooctane	104 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	123 9	% 42.2-15	6						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 6/10/2021 8:48:57 AM

Relinquished By: Sampler - UPS - Bus - Other: Relinquished By: analyses. All claims including those for negligence and any other City: LEASE NOTE: Liability and Dar Project Location: Project Name: Project Manager: Delivered By: (Circle One) Sampler Name: Project #: Phone #: Address: Company Name: Hooagas vice. In no event shaft Cardinal be liable for incidental or u FOR LAB USE ONLY Lab I.D. EFF ISnum N ansing out of or related to the SP102' 101 East Marland, Hobbs, NM 88240 Sm JERF BRUM S Bruck (575) 393-2326 FAX (575) 393-2476 Cardin LAMBERT LAMBERT Sample I.D. Wache Oaker Observed Temp. °C Corrected Temp. °C cause whatsoever shall be deemed Date: 11/4/20 Time: / Folo int's exclusive remedy for any Date: Time: Project Owner: Fax #: Corporation † Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com State: damages, including 4.4 S (G)RAB OR (C)OMP. Zip Received By: Received # CONTAINERS GROUNDWATER Sample Condition Cool Intact unless made in writing and rec WASTEWATER MATRIX SOIL OIL tract or tort, SLUDGE loss of use, or loss of profils incu City: OTHER P.O. #: State: Attn: Fax #: Phone #: Address: Company: ed by Ca ACID/BASE PRESERV CHECKED BY: ICE / COOL 'd (Initials) OTHER : BILL TO within 30 days after 1 Zip: DATE 4/2 red by client, its subsidiaries, 120 SAMPLING paid by the client for the Correction Factor +0.4 °C All Results are emailed. Please provide Email address: Turnaround Time: REMARKS: Verbal Result: 1313 1312 TIME EXT. TPH □ Yes BTEX 112 #13 Standard ON D Add'l Phone #: ANALYSIS Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes No No Corrected Temp. °C REQUEST

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 5 of 5

Released to Imaging: 8/11/2021 10:41:26 AM

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November 19, 2020

BRUCE BAKER APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS, NM 88240

RE: LM LAMBERT

Enclosed are the results of analyses for samples received by the laboratory on 11/18/20 14:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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,

Whe Singh

Mike Snyder For Celey D. Keene Lab Director/Quality Manager



		BRUCE BA	1arland Blvd.		
		Fax To:	(575) 393-2432	2	
Received:	11/18/2020			Sampling Date:	11/18/2020
Reported:	11/19/2020			Sampling Type:	Soil
Project Name:	LM LAMBERT			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN				

Sample ID: SP 1 @ 4' (H003059-01)

BTEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2020	ND	1.99	99.4	2.00	4.48	
Toluene*	<0.050	0.050	11/18/2020	ND	1.90	95.0	2.00	5.18	
Ethylbenzene*	<0.050	0.050	11/18/2020	ND	2.01	100	2.00	5.23	
Total Xylenes*	<0.150	0.150	11/18/2020	ND	5.75	95.8	6.00	5.01	
Total BTEX	<0.300	0.300	11/18/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 73.3-12	9						
TPH 8015M		mg/kg Ana		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2020	ND	196	97.8	200	11.8	
DRO >C10-C28*	77.0	10.0	11/18/2020	ND	211	106	200	18.1	
EXT DRO >C28-C36	96.3	10.0	11/18/2020	ND					
	50.5	2010	, , ,						
Surrogate: 1-Chlorooctane	83.7 9								

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*=Accredited Analyte

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Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		BRUCE BA	IARLAND BLVD.		
		Fax To:	(575) 393-2432	2	
Received:	11/18/2020			Sampling Date:	11/18/2020
Reported:	11/19/2020			Sampling Type:	Soil
Project Name:	LM LAMBERT			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN				

Sample ID: SP 1 @ 5' (H003059-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2020	ND	1.99	99.4	2.00	4.48	
Toluene*	<0.050	0.050	11/18/2020	ND	1.90	95.0	2.00	5.18	
Ethylbenzene*	<0.050	0.050	11/18/2020	ND	2.01	100	2.00	5.23	
Total Xylenes*	<0.150	0.150	11/18/2020	ND	5.75	95.8	6.00	5.01	
Total BTEX	<0.300	0.300	11/18/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	6 73.3-12	9						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/18/2020	ND	196	97.8	200	11.8	
DRO >C10-C28*	150	10.0	11/18/2020	ND	211	106	200	18.1	
EXT DRO >C28-C36	161	10.0	11/18/2020	ND					
Surrogate: 1-Chlorooctane	81.9 %	<i>44.3-14</i>	4						
Surrogate: 1-Chlorooctadecane									

Cardinal Laboratories

*=Accredited Analyte

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Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

pany Name: Ap a che C or che rache n ess: State: Zip: ess: State: Zip: ess: Fax #: Project Owner: ett Name: L/m Lambert Fax #: ett Location: L/m Lambert Sample I.D. bi I.D. Sample I.D. Sample I.D. 25 State: Sample I.D. Gip Rab or (C)OMP 27 State: Sample I.D. Gip Rab or (C)OMP 28 NTE: Luage out of a manage due of an atem one of the variable on models for variable on one variable on models for variable on model			INC				
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Ap a che (a represtion no politici n	Cool Intact			_	Observed Temp. °C	d By: (Circle One)	Delivered
Ap ache Cargo racia n Brack State: Zip: Fax #: Fax #: Fax #: Fax #: Fax #: Tornard Tax bert Pinoine #: Sample I.D. G(G)QIAB OT (INERSE Sample I.D. G(G)QUINDWATER Solid JJ-JS2 Solid JJ-JS2 <td< td=""><td>and the statement Condition</td><td></td><td></td><td></td><td>Time:</td><td></td><td></td></td<>	and the statement Condition				Time:		
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Aperiche Corporation BILL IV Brack Barter State: Zip: Fax #: Frojeci Owner: City: Fax #: Projeci Owner: City: Fax #: Projeci Owner: City: Lm Lambert Pinone #: Pinone #: Sample I.D. Grounsvarter Pinone #: Sample I.D. Bor (C)OMP. Pick #: Solution Pinone #: Pinone #: Solution Pinone #:	provide Email address:	All Results are emailed. Please pr	() In Low	Received By:		shed By:	Relinquis
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Apache Corporation BILL IC State: Zip: Fax #: Project Owner: Fax #: Project Owner: Fax #: Project Owner: Sample I.D. State: Sample I.D. GROUNDWATER WASTEWATER Solit OIL Solit SUDGE Project Owner: State: Zip: Address: Phone #: Break Fax #: Solit Solit OIL State: State: Zip:		r completion of the applicable slient, its subsidiaries,	and received by Cardinal within 30 days afte	ny claim arising whether based in control deemed waived unless made in writing	bility and client's exclusive remedy for at d any other cause whatsoever shall be o	:: Liability and Damages. Cardinal's lia aims-including those for negligence an	EASE NOTE: alyses. All clai
Apache Carporation Bruce Batter State: Zip: Fax #: Project Owner: Fax #: Project Owner: Fax #: Project Owner: Fax #: Project Owner: Fax #: Project Owner: Fax #: Project Owner: Fax #: City: Phone #: Phone #: Phone #: Project Owner: Fax #: City: Phone #: Phone #: Project Owner: State:	-	d by the client for the	act or tort shall be limited to the amount pak				
Apache Corporation BILLIO State: Zip: State: Zip: Fax #: Project Owner: Company: Fax #: Project Owner: City: Project Owner: City: Fax #: Project Owner: City: Address: Fax #: Project Owner: City: State: Zip: H' CONTAINERS GROUNDWATER WASTEWATER Soll OIL SLUDGE OTHER: City: State: Zip: Fax #: Phone #: Fax #: Phone #: City: Phone #: Phone #							
Apache Corporation Pol. #: Bruce Batter State: Zip: State: Zip: Address: Fax #: Project Owner: City: Fax #: Project Owner: City: Sample I.D. GROUNDWATER Phone #: VASTEWATER Soll Oil SLUDGE OTHER: Presserv VASTEWATER Soll OIL SLUDGE OTHER: Internet VASTEWATER Soll OIL SLUDGE OTHER: Internet VASTEWATER SOL OTHER: VASTEWATER SOL SOL VASTEWATER SOL V		*					
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			BILL		orporation	Anache	npany N

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RDIN



November 23, 2020

BRUCE BAKER APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS, NM 88240

RE: LM LAMBERT

Enclosed are the results of analyses for samples received by the laboratory on 11/20/20 9:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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,

Whe Singh

Mike Snyder For Celey D. Keene Lab Director/Quality Manager



		BRUCE BA 2350 W. M HOBBS NM	1ARLAND BLVD. 1, 88240		
		Fax To:	(575) 393-2432	2	
Received:	11/20/2020			Sampling Date:	11/20/2020
Reported:	11/23/2020			Sampling Type:	Soil
Project Name:	LM LAMBERT			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN				

Sample ID: SP 1 @ 6' (H003078-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2020	ND	1.89	94.4	2.00	7.75	
Toluene*	<0.050	0.050	11/20/2020	ND	1.82	91.1	2.00	8.19	
Ethylbenzene*	<0.050	0.050	11/20/2020	ND	1.89	94.3	2.00	9.22	
Total Xylenes*	<0.150	0.150	11/20/2020	ND	5.42	90.3	6.00	8.77	
Total BTEX	<0.300	0.300	11/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	73.3-12	9						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2020	ND	251	125	200	0.615	
DRO >C10-C28*	<10.0	10.0	11/20/2020	ND	236	118	200	1.33	
EXT DRO >C28-C36	<10.0	10.0	11/20/2020	ND					
Surrogate: 1-Chlorooctane	95.7 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	87.5 9	% 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clent's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, whother bits ubsidiaries, affiliates or successor arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



		BRUCE BA	1arland Blvd.		
		Fax To:	(575) 393-2432	2	
Received:	11/20/2020			Sampling Date:	11/20/2020
Reported:	11/23/2020			Sampling Type:	Soil
Project Name:	LM LAMBERT			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN				

Sample ID: SP 1 @ 7' (H003078-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2020	ND	1.89	94.4	2.00	7.75	
Toluene*	<0.050	0.050	11/20/2020	ND	1.82	91.1	2.00	8.19	
Ethylbenzene*	<0.050	0.050	11/20/2020	ND	1.89	94.3	2.00	9.22	
Total Xylenes*	<0.150	0.150	11/20/2020	ND	5.42	90.3	6.00	8.77	
Total BTEX	<0.300	0.300	11/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	73.3-12	9						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2020	ND	251	125	200	0.615	
DRO >C10-C28*	78.9	10.0	11/20/2020	ND	236	118	200	1.33	
EXT DRO >C28-C36	70.5	10.0	11/20/2020	ND					
Surrogate: 1-Chlorooctane	93.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	89.0	% 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

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

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories

*=Accredited Analyte

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

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(575) 393-2326 FAX (575) 393-2476	575) 393-2476		RILL TO		Þ	ANALYSIS REQUEST	ST
Company Name:	Apach	atin	P.0.	#	_	_		
Fluject manager.	Brift Daller		Con	Company:	2			
City:	-	State: Zip:	Attn:					-
Phone #:	Fa	Fax #:	Add	Address:				
Project #:	PI	Project Owner:	City:					
ame:	In Laubert		State:	le: Zip:				
<u> </u>	: Lon Lambort		Pho	Phone #:				
Samnler Name:	-(Fax #:	#		2		
Sampler Name:	10mmy Jankins			SERV	ING			
FOR LAB USE ONLY			MATRIX	PRESERV. SAMPLING		-		
FOR LAB USE ONLY			R		1	PH		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OM # CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :	ACID/BASE: ICE / COOL OTHER :		B Tex Ext. TP.		
1	581 @ 10'		1	11-20-20	5:11 4	1	•	
N-		6			9:13	7		
PLEASE NOTE: Liability an analyses. All claims includir	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 applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	exclusive remedy for any claim an e whatsoever shall be deemed wa ntal damages, including without lin	ising whether based in contract or tort aived unless made in writing and receil nitation, business interruptions, loss of	shall be limited to the amount paid ved by Cardinal within 30 days after use, or loss of profits incurred by cli	by the client for the completion of the applicable ant, its subsidiaries,			
affiliates or successors arising Relinquished By:	filiates or successors arising out of or related to the performance of s Relinquished By:	Date: Rece	services hereunder by Cardinal, regardless of whether such claim is based Date: Received By:	All Results	Verbal Result: Yes No Add'l Phone #: All Results are emailed. Please provide Email address:	es 🛛 No 1. Please provi	Add'l Phone #: ide Email address:	
Commune de	him	55	Received By:	Water	REMARKS:			
		Time:				Clandard	Racteria (only) Sample Condition	Imple Condition
Delivered By: (Circle One)		Observed Temp. °C 5.9	Sample Condition	s)	Turnaround Time:	Rush	Cool Intact	Observed Temp. °C
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Jo.	Correction Factor None			Corrected Temp °C

Received by OCD: 6/10/2021 8:48:57 AM

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



December 02, 2020

BRUCE BAKER APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS, NM 88240

RE: LM LAMBERT

Enclosed are the results of analyses for samples received by the laboratory on 11/30/20 15:49.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



NOT GIVEN

Analytical Results For:

		APACHE C	ORP - HOBBS		
		BRUCE BA	KER		
		2350 W. M	1arland Blvd.		
		HOBBS NN	1, 88240		
		Fax To:	(575) 393-2432	2	
Received:	11/30/2020			Sampling Date:	11/30/2020
Reported:	12/02/2020			Sampling Type:	Soil
Project Name:	LM LAMBERT			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Yvonne Muniz

Sample ID: SP 1 @ 8' (H003130-01)

Project Location:

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/01/2020	ND	2.10	105	2.00	3.68	
Toluene*	<0.050	0.050	12/01/2020	ND	2.02	101	2.00	3.56	
Ethylbenzene*	<0.050	0.050	12/01/2020	ND	2.09	104	2.00	3.60	
Total Xylenes*	<0.150	0.150	12/01/2020	ND	5.96	99.4	6.00	3.43	
Total BTEX	<0.300	0.300	12/01/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	73.3-12	9						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2020	ND	211	105	200	4.03	
DRO >C10-C28*	202	10.0	12/02/2020	ND	211	106	200	1.88	
EXT DRO >C28-C36	159	10.0	12/02/2020	ND					
Surrogate: 1-Chlorooctane	82.3 9	% 44.3-14	4						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Labora	atories	<u>CH/</u>	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
101 East Marland (575) 393-2326	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476		
Company Name: // Na / be	Principalina	BILL TO	ANALYSIS REQUEST
Project Manager:	latur m	P.O. #:	
Address:		Company:	
City:	State: Zip:	Attn:	
Phone #:	Fax #:	Address:	
Project #:	Project Owner:	City:	
Project Name: IM LANGER	7	State: Zip:	
on: CM	T.	Phone #:	
leff 1		1	
1000	MATRIX	PRESERV. SAMPLING	
0	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE		TIME BTEX EXT. TPH
18 0 1 St 1 0 8'		11/30/20	
PLEASE NOTE: Liability and Damages. Cardinal's liability analyses. All claims including those for negligence and a motion in on event shall Contrinal be liable for indetential	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arking whether based in contract or ton, shall be limited to the amount paid by the client for the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for incidential or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	t or tort, shall be limited to the amount paid by the client for the of received by Cardinal within 30 days after completion of the loss of use, or loss of profits incurred by client, its subsidiaries,	e client for the deton of the applicable 5 subsidiaries,
affiliates or successors arising out of or related to the perf. Relinquished By:	Tormance of services hereunder by Cardinal, regardless of whether such daar Date: ///ʒv/b, Received By:	whether such claim is based upon any or the adore source (Ve)	Verbal Result: Yes No Add'l Phone #: All Results are emailed. Please provide Email address: n 10
Relinquished By	54	2	REMARKS: AUSKALDISUTO
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	I Tata S	CHECKED BY: (Initials)	Turnaround Time: Standard P Bacteria (only) Sample Condition Thermometer ID - H97- Correction Factor + 94-6- Correction Factor + 94-6- Correction Factor + 94-6- Correction Factor + 94-6- No Corrected Temp. °C
FORM-000 R 3.0	† Cardinal cannot accept verbal char	anges. Please email change	Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Received by OCD: 6/10/2021 8:48:57 AM

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December 04, 2020

BRUCE BAKER APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS, NM 88240

RE: LM LAMBERT

Enclosed are the results of analyses for samples received by the laboratory on 12/03/20 9:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	12/03/2020	Sampling Date:	12/03/2020
Reported:	12/04/2020	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 9' (H003167-01)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	12/03/2020	ND	2.09	104	2.00	1.50	
Toluene*	0.407	0.100	12/03/2020	ND	2.00	100	2.00	1.69	GC-NC1
Ethylbenzene*	5.94	0.100	12/03/2020	ND	2.06	103	2.00	1.21	
Total Xylenes*	10.1	0.300	12/03/2020	ND	5.88	98.1	6.00	1.08	
Total BTEX	16.5	0.600	12/03/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	327 9	% 73.3-12	9						
TPH 8015M	mg/	'kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	940	50.0	12/03/2020	ND	215	108	200	2.24	
DRO >C10-C28*	6170	50.0	12/03/2020	ND	219	110	200	1.27	
EXT DRO >C28-C36	1020	50.0	12/03/2020	ND					
Surrogate: 1-Chlorooctane	211.0								
	211 9	<i>44.3-14</i>	4						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



	APACHE CORP - HOBBS
	BRUCE BAKER
	2350 W. MARLAND BLVD.
	HOBBS NM, 88240
	Fax To: (575) 393-2432
12/03/2020	Sampling Date:

Received:	12/03/2020	Sampling Date:	12/03/2020
Reported:	12/04/2020	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 10' (H003167-02)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2020	ND	2.09	104	2.00	1.50	
Toluene*	0.583	0.050	12/04/2020	ND	2.00	100	2.00	1.69	GC-NC1
Ethylbenzene*	5.64	0.050	12/04/2020	ND	2.06	103	2.00	1.21	
Total Xylenes*	5.72	0.150	12/04/2020	ND	5.88	98.1	6.00	1.08	
Total BTEX	11.9	0.300	12/04/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	395 9	% 73.3-12	9						
TPH 8015M	mg/	'kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	535	50.0	12/03/2020	ND	215	108	200	2.24	
DRO >C10-C28*	3780	50.0	12/03/2020	ND	219	110	200	1.27	
EXT DRO >C28-C36	778	50.0	12/03/2020	ND					
Surrogate: 1-Chlorooctane	159 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	136 9	% 42.2-15							

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



APACHE CO	RP - HOBBS
BRUCE BAKE	ER
2350 W. MA	RLAND BLVD.
HOBBS NM,	88240
Fax To:	(575) 393-2432

Received:	12/03/2020	Sampling Date:	12/03/2020
Reported:	12/04/2020	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 11' (H003167-03)

BTEX 8021B	mg	′kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	12/04/2020	ND	2.09	104	2.00	1.50	
Toluene*	0.979	0.100	12/04/2020	ND	2.00	100	2.00	1.69	GC-NC1
Ethylbenzene*	9.36	0.100	12/04/2020	ND	2.06	103	2.00	1.21	
Total Xylenes*	12.2	0.300	12/04/2020	ND	5.88	98.1	6.00	1.08	
Total BTEX	22.5	0.600	12/04/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	292	% 73.3-12	9						
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	564	50.0	12/03/2020	ND	215	108	200	2.24	
DRO >C10-C28*	3190	50.0	12/03/2020	ND	219	110	200	1.27	
EXT DRO >C28-C36	664	50.0	12/03/2020	ND					
Surrogate: 1-Chlorooctane	138	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	124	% 42.2-15	1						

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Celey D. Keene, Lab Director/Quality Manager



	APACHE CO	orp - Hobbs		
	BRUCE BAK	KER		
	2350 W. M	ARLAND BLVD.		
	HOBBS NM	, 88240		
	Fax To:	(575) 393-2432		
12/03/2020			Sampling Date:	
12/04/2020			Compling Type:	

Received:	12/03/2020	Sampling Date:	12/03/2020
Reported:	12/04/2020	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 12' (H003167-04)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2020	ND	2.09	104	2.00	1.50	
Toluene*	0.126	0.050	12/04/2020	ND	2.00	100	2.00	1.69	GC-NC1
Ethylbenzene*	1.41	0.050	12/04/2020	ND	2.06	103	2.00	1.21	
Total Xylenes*	1.12	0.150	12/04/2020	ND	5.88	98.1	6.00	1.08	
Total BTEX	2.65	0.300	12/04/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	232 9	% 73.3-12	9						
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*	144	50.0	12/03/2020	ND	215	108	200	2.24	
DRO >C10-C28*	1830	50.0	12/03/2020	ND	219	110	200	1.27	
EXT DRO >C28-C36	449	50.0	12/03/2020	ND					
Surrogate: 1-Chlorooctane	118 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	170 9	% 42.2-15							

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Celey D. Keene, Lab Director/Quality Manager



	APACHE CORP - HOBBS
	BRUCE BAKER
	2350 W. MARLAND BLVD.
	HOBBS NM, 88240
	Fax To: (575) 393-2432
12/03/2020	Sampling Date:
12/04/2020	Compliant Trans.

Received:	12/03/2020	Sampling Date:	12/03/2020
Reported:	12/04/2020	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 13' (H003167-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	12/04/2020	ND	2.09	104	2.00	1.50	
Toluene*	1.68	0.100	12/04/2020	ND	2.00	100	2.00	1.69	GC-NC1
Ethylbenzene*	11.5	0.100	12/04/2020	ND	2.06	103	2.00	1.21	
Total Xylenes*	13.9	0.300	12/04/2020	ND	5.88	98.1	6.00	1.08	
Total BTEX	27.1	0.600	12/04/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	343 9	73.3-12	9						
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*	1080	50.0	12/03/2020	ND	215	108	200	2.24	
DRO >C10-C28*	5250	50.0	12/03/2020	ND	219	110	200	1.27	
EXT DRO >C28-C36	937	50.0	12/03/2020	ND					
Surrogate: 1-Chlorooctane	189 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	213 9	42.2-15							

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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.
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

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 6/10/2021 8:48:57 AM

(575) 393-2326 FAX (575) 393-2476	6	
Company Name: Anathe Company Name:	BILL TO	ANALYSIS REQUEST
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Address:	Company:	
City: State:	Zip: Attn:	
e #:	Address:	
Project #: Project Owner:	r: City:	
Project Name: /M / PMAGAT	State: Zip:	
I M	Phone #:	
Project Location: Land Land Land	Tour #.	
Sampler Name: JEFF Rown	Fax #:	
UCH DO	MATRIX PRESERV SAM	SAMPLING
FOR LAB USE CALLY	S ER R	
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analyses. All claims including those for negligence and any outer cause winascers are not winner and the set of use, or loss of profits incurred by client, its subsidiaries, 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, 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, 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, service.	ing without limitation, business interruptions, loss of use, or loss of profits incurred b ding without limitation, business interruptions, loss of use, or loss of profits incurred b sector and the sector of th	
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Page 8 of 8

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 85 of 95

CARDINA Laboratorie

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December 16, 2020

BRUCE BAKER APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS, NM 88240

RE: LM LAMBERT

Enclosed are the results of analyses for samples received by the laboratory on 12/15/20 14:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	12/15/2020	Sampling Date:	12/15/2020
Reported:	12/16/2020	Sampling Type:	Soil
Project Name:	LM LAMBERT	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 15' (H003265-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2020	ND	2.09	105	2.00	0.600	
Toluene*	<0.050	0.050	12/16/2020	ND	1.97	98.5	2.00	1.57	
Ethylbenzene*	0.189	0.050	12/16/2020	ND	2.08	104	2.00	1.09	
Total Xylenes*	0.232	0.150	12/16/2020	ND	5.94	99.0	6.00	0.719	
Total BTEX	0.444	0.300	12/16/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 %	6 73.3-12	9						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2020	ND	194	97.1	200	2.46	
DRO >C10-C28*	204	10.0	12/16/2020	ND	204	102	200	2.34	
EXT DRO >C28-C36	22.6	10.0	12/16/2020	ND					
Surrogate: 1-Chlorooctane	95.9%	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	97.8 %	42.2-15	6						

Cardinal Laboratories

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BRUCE BAK 2350 W. M. HOBBS NM	ARLAND BLVD. , 88240		
		Fax To:	(575) 393-2432		
Received:	12/15/2020			Sampling Date:	12/15/2020
Reported:	12/16/2020			Sampling Type:	Soil
Project Name:	LM LAMBERT			Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN				

Sample ID: SP 1 @ 20' (H003265-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2020	ND	2.09	105	2.00	0.600	
Toluene*	<0.050	0.050	12/16/2020	ND	1.97	98.5	2.00	1.57	
Ethylbenzene*	<0.050	0.050	12/16/2020	ND	2.08	104	2.00	1.09	
Total Xylenes*	<0.150	0.150	12/16/2020	ND	5.94	99.0	6.00	0.719	
Total BTEX	<0.300	0.300	12/16/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	73.3-12	9						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2020	ND	194	97.1	200	2.46	
DRO >C10-C28*	<10.0	10.0	12/16/2020	ND	204	102	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	12/16/2020	ND					
Surrogate: 1-Chlorooctane	94.9	% 44.3-14	4						
Surrogate: 1 enterocetane	74.7	70 44.5-14							

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BRUCE BA	1arland BLVD.		
		Fax To:	(575) 393-2432	2	
Received:	12/15/2020			Sampling Date:	12/15/2020
Reported:	12/16/2020			Sampling Type:	Soil
Project Name:	LM LAMBERT			Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN				

Sample ID: SP 1 @ 25' (H003265-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2020	ND	2.09	105	2.00	0.600	
Toluene*	<0.050	0.050	12/16/2020	ND	1.97	98.5	2.00	1.57	
Ethylbenzene*	<0.050	0.050	12/16/2020	ND	2.08	104	2.00	1.09	
Total Xylenes*	<0.150	0.150	12/16/2020	ND	5.94	99.0	6.00	0.719	
Total BTEX	<0.300	0.300	12/16/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	73.3-12	9						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2020	ND	194	97.1	200	2.46	
DRO >C10-C28*	<10.0	10.0	12/16/2020	ND	204	102	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	12/16/2020	ND					
Surrogate: 1-Chlorooctane	88.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	88.9	% 42.2-15	6						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BRUCE BAI	ARLAND BLVD.		
		Fax To:	(575) 393-2432	2	
Received:	12/15/2020			Sampling Date:	12/15/2020
Reported:	12/16/2020			Sampling Type:	Soil
Project Name:	LM LAMBERT			Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN				

Sample ID: SP 1 @ 30' (H003265-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2020	ND	2.09	105	2.00	0.600	
Toluene*	<0.050	0.050	12/16/2020	ND	1.97	98.5	2.00	1.57	
Ethylbenzene*	<0.050	0.050	12/16/2020	ND	2.08	104	2.00	1.09	
Total Xylenes*	<0.150	0.150	12/16/2020	ND	5.94	99.0	6.00	0.719	
Total BTEX	<0.300	0.300	12/16/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	73.3-12	9						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2020	ND	194	97.1	200	2.46	
DRO >C10-C28*	<10.0	10.0	12/16/2020	ND	204	102	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	12/16/2020	ND					
Surrogate: 1-Chlorooctane	94.5	% 44.3-14	4						
	74.5	70 44.5-14	•						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		BRUCE BAK	ARLAND BLVD.		
		Fax To:	(575) 393-2432		
Received:	12/15/2020			Sampling Date:	12/15/2020
Reported:	12/16/2020			Sampling Type:	Soil
Project Name:	LM LAMBERT			Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN				

Sample ID: SP 1 @ 35' (H003265-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/16/2020	ND	2.09	105	2.00	0.600	
Toluene*	<0.050	0.050	12/16/2020	ND	1.97	98.5	2.00	1.57	
Ethylbenzene*	<0.050	0.050	12/16/2020	ND	2.08	104	2.00	1.09	
Total Xylenes*	<0.150	0.150	12/16/2020	ND	5.94	99.0	6.00	0.719	
Total BTEX	<0.300	0.300	12/16/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	6 73.3-12	9						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/16/2020	ND	194	97.1	200	2.46	
DRO >C10-C28*	<10.0	10.0	12/16/2020	ND	204	102	200	2.34	
EXT DRO >C28-C36	<10.0	10.0	12/16/2020	ND					
Surrogate: 1-Chlorooctane	102 %	6 44.3-14	4						
Surrogate: 1-Chlorooctadecane	102 %	6 42.2-15	6						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

oratories RDIZ

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

@cardinallabsnm.com	Cardinal cannot accept verbal changes. Please email changes to celey.keene	mail change	lease e	es. P	lang	al ch	verb	ept	acce	not	Cardinal can	+		
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EET TPH	R Tex	DATE	ICE / COOL OTHER :	OTHER : ACID/BASE:	SLUDGE	OIL	SOIL	GROUNDWATER WASTEWATER	# CONTAINERS	(G)RAB OR (C)OM		Sample I.D.		Lab I.D. H003245
-		SAMPLING	PRESERV.	P	_	MATRIX	MA	_	_	Ρ.				FOR LAB USE ONLY
				Fax #	L				1	1		ny Jenkins	Tenny	Sampler Name:
			e #:	Phone #:	-							<i>leimbert</i>	on: Lim	Project Location: Lim
		Zip:		State:	10							Lm Lambert		Project Name:

Received by OCD: 6/10/2021 8:48:57 AM

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City:

Address:

Project Manager: Company Name:

Saule pache

Salter ach

P.O. #: Company:

BILL TO

ANALYSIS REQUEST

Project #: Phone #:

Fax #:

State:

Zip:

Project Owner:

City: Address: Attn:

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straight to lab

1001

Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Ves Ves Nc No Corrected Temp. °C



Figure 2 - Aerial Map Showing Proposed Soil Bore and Monitoring Well Locations

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:	OGRID:	
APACHE CORPORATION	873	
303 Veterans Airpark Ln	Action Number:	
Midland, TX 79705	31282	
	Action Type:	
	[C-141] Release Corrective Action (C-141)	

CONDITIONS		
Created By	Condition	Condition Date
chensley	Sample points SP4 and SP5 moved. Site map included for locations.	8/11/2021

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Action 31282