

2350 W Marland Blvd Hobbs, NM 88240

Corrective Action Plan

August 13, 2018

Re: BM Marcus Battery API# 30-025-27949 Case # 1RP-5055 NMOCD will approve of the vertical delineation completed for 1RP-5055 and the proposed remediation with conditions:
1) Confirmation bottom and sidewall samples, no greater than 50 ft. apart, tested for chlorides, BTEX, and TPH extended.
2) Mark release point and outline differing depths of excavation on a scaled map.
3) Photo documentation verifying that the release was from an oil tank and of remedial activities.

To: Olivia Yu

Environmental Specialist-New Mexico Oil Conservation Division Energy, Minerals and Natural Resources Department 1625 N. French Drive Hobbs, New Mexico 88240

Background:

On May 1, 2018 a release occurred due to the south oil tank failed resulting in the loss of oil. An initial C-141 was submitted to NMOCD on May 11, 2018. The release area is located north of Eunice New Mexico (GPS Coordinates 32.56383055 -103.173066) in unit letter C section 20 Township 20S Range 38E. A search radius of 2000 meters for groundwater wells was conducted utilizing data from the NMOSE and USGS. A total of 7 USGS wells and 1 NMOSE well were found to be inside the radius. The average depth of groundwater in the area is 67 feet below ground surface.

A total of 4 verticals were conducted utilizing a backhoe in one foot intervals to delineate the vertical extend of contamination on July 11 and July 23, 2018. All samples collected from all verticals were submitted to a commercial laboratory for analysis of TPH and BTEX.

Corrective Action:

Upon review of the vertical data collected Apache Corporation proposes that the area around SP 1 be excavated to a depth of 3 feet below ground surface. The area around SP 2 and SP 4 be excavated to a depth of 2 feet below ground surface. The area around SP 3 be excavated to a depth of 4 feet below ground surface. Once the excavation is complete final wall and bottom samples will be collected and submitted to a commercial laboratory for analysis of TPH and BTEX. All excavated material will be exported to a NMOCD approved disposal facility. The excavation will be backfield with imported caliche and top soil. Attached is the data for your review.

Enclosed: Initial C-141, Groundwater Data, Sample Diagram, Sample Data, and Laboratory Results

Submitted by;

Bruce Baker

Environmental Technician larry.baker@apachecorp.com Cell# 432-631-6982 Off# 575-393-7106 Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release	Notificatio	n and Corr	ective Action	n	
		OPERATO	R	🛛 Initial Repor	t 📋 Final Report
Name of Company Apache Corporation		Contact Bruce	Baker		
Address 2350 W Marland Street, Hobbs, NM 8	8240	Telephone No.	(432) 631-6982		· · · · ·
Facility Name BM Marcus Battery		Facility Type	Battery		
(Nearest Well BM Marcus 2)					
Surface Owner Private	Mineral Owner	Private		API No. 30-02:	5-27949

				LOCA	TION OF REI	LEASE		
Unit Letter	Section 20	Township 20S	Range 38E	Feet from the	North/South Line FSL	Feet from the	East/West Line FEL	County Lea
č	20	200					100	LCa

Latitude 32.5637 Longitude -103.1729

NATURE	C OF RELEASE				
Type of Release Oil	Volume of Release 50 Barrels of oil	Volume Recovered 40 Barrels of oil			
Source of Release Oil Tank	Date and Hour of Occurrence 5/1/2018	Date and Hour of Discovery 5/1/2018 at 3:00 pm			
Was Immediate Notice Given?	If YES, To Whom? Olivia Yu (NMOCD)				
By Whom? Bruce Baker	Date and Hour 5/2/2018 at 2:16 pm	via email and voice mail.			
Was a Watercourse Reached?	If YES. Volume Impacting the Wat	lercourse.			
If a Watercourse was Impacted. Describe Fully.*	RECEIVED By Olivia Yu at 1:4	2 pm, May 11, 2018			
Describe Cause of Problem and Remedial Action Taken.* The south steel oil tank failed resulting in the loss of oil. The tank was isolated and a vacuum truck was dispatched to pick-up standing oil.					
Describe Area Affected and Cleanup Action Taken.* The majority of the contamination was contained inside the secondary containment except the containment was breached on the northwest corner resulting in approximately 100 square feet of pasture was affected.					
I hereby certify that the information given above is true and complete to regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remedia or the environment. In addition, NMOCD acceptance of a C-141 report of federal, state, or local laws and/or regulations.	notifications and perform corrective ac he NMOCD marked as "Final Report" ite contamination that pose a threat to g	tions for releases which may endanger does not relieve the operator of liability round water, surface water, human health			
Λ	OIL CONSERV	ATION DIVISION			
Signature: Burce Bacher		M			
Printed Name: Bruce Baker	Approved by Environmental Specialis	st: U			
Title: Environmental Technician SR	Approval Date: 5/11/2018	Expiration Date:			
E-mail Address: larry.baker@apachecorp.com	Conditions of Approval:	Attached			
Date: 5/11/2018 Phone: (432) 631-6982 * Attach Additional Sheets If Necessary					
Allacit Adunional Sheets II Necessary	1RP-5055 nOY1813	149173			

pOY1813149644





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• 323341103103501

Minimum number of levels = 1

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USGS 323341103103501 20S.38E.17.33410

Available data for this site Groundwater: Field measurements

V GO

Lea County, New Mexico Hydrologic Unit Code 13070007 Latitude 32°34'01.3", Longitude 103°10'35.2" NAD83 Land-surface elevation 3,548.80 feet above NGVD29 The depth of the well is 116 feet below land surface. This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer. This well is completed in the Ogaliala Formation (1210GLL) local aquifer.

Output formats

Table of data	
Tab-separated data	
Graph of data	
Reselect period	

https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels/?site_no=323341103103501&agency_c... 7/16/2018

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Breaks in the plot represent a gap of at least one year between field measurements.

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USGS 323410103102701 20S.38E.17.141341

Available data for this site Groundwater: Field measurements ✓ GO Lea County, New Mexico Hydrologic Unit Code 13070007 Latitude 32°34'10", Longitude 103°10'27" NAD27 Land-surface elevation 3,557 feet above NAVD88 This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

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 Lea County, New Mexico
 Hydrologic Unit Code 13070007

 Latitude 32°34'12", Longitude 103°10'24" NAD27

 Land-surface elevation 3,557 feet above NAVD88

 The depth of the well is 96 feet below land surface.

 This well is completed in the Ogallala Formation (1210GLL) local aquifer.

 Output formats

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 Lea County, New Mexico
 Hydrologic Unit Code 13070007

 Latitude 32°34'13", Longitude 103°09'24" NAD27

 Land-surface elevation 3,563 feet above NAVD88

 This well is completed in the Ogallala Formation (1210GLL) local aquifer.

 Output formats

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Available data for this site Groundwater: Field measurements

V GO

Lea County, New Mexico Hydrologic Unit Code 12080003 Latitude 32°34'17", Longitude 103°10'30" NAD27 Land-surface elevation 3,558 feet above NAVD88 The depth of the well is 105 feet below land surface. This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels/?site_no=323417103103001&agency_c... 7/16/2018

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	Wa		_				_			State E Dept	<u> </u>		er	
(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD been rep O=orpha C=the fill closed)	laced, ned,							3=SW 4=S argest) (N	SE) NAD83 UTM in m	neters)	(In	feet)	
		Sub-			a a		_	_				Depth De		
POD Number	Code	basin L	County LE	64 1 2			Tws 20S	Rng 38E	X 670803	Y 3605719* 🍪	Distance 1485	Well W 124	aterCol 50	umn 74
										Avera	age Depth to	Water:	50 feet	t
											Minimum	Depth:	50 feet	t
											Maximum	Depth:	50 feet	t
Record Count: 1														
UTMNAD83 Radius	Search (in	meters)	<u>:</u>											
Easting (X): 671	533		Norti	ning	(Y).	3604	425			Radius; 2000				
*UTM location was derived	from PLSS	see Helj	P											

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.

7/16/18 9:07 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

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		SP	1 (GPS: 32	SP 1 (GPS: 32.56383055 -103.173066)	-103.1730	66)		
Depth	Benzene	Toluene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO
9	<0.050	2.58	5.77	19.1	27.5	572	29300	5400
2'	<0.050	0.468	0.842	2.86	4.17	66.3	830	116
3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10	556	145
4'	<0.050	<0.050	<0:050	<0.150	<0.300	<10	257	57.1
		SP	SP 2 (GPS: 3	32.563977 -103.1730055	03.173005	5)		
Depth	Benzene	Toluene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO
-9	<0.500	0.605	2.44	9.43	12.5	427	32200	6120
1.5'	<0.200	<0.200	0.219	606.0	<1.20	<50	1390	254
2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10	235	68.1
3'	<0.050	<0.050	<0:050	<0.150	<0.300	<10	154	40.8
		SP	SP 3 (GPS: 3	32.5638611 -103.172933	103.17293	(3)		
Depth	Benzene	Toluene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO
1 ,	0.464	8.23	9.8	25.8	43.1	962	35700	6860
1.5'	1.23	25.8	28	75.1	130	2210	13500	2080
3'	<0.050	0.124	0.327	1.12	1.57	48	1480	264
4'	<0.050	<0.050	0.071	0.244	0.315	<10	316	68.7
5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10	332	92.9
		SP 4	(GPS: 32.	SP 4 (GPS: 32.56409722 -103.17318611)	103.17318	611)		
Depth	Benzene	Toluene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO
Surface	<0.200	0.228	1.91	7.08	9.22	264	24700	4930
1'	<0.050	<0.050	0.259	2.2	2.73	109	1970	181
2'	<0.050	<0.050	<0.050	<0.150	<0.300	10.3	543	106
3'	<0.050	<0.050	<0.050	<0.150	<0.300	<10	194	24.8





July 13, 2018

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

RE: BM MARCUS BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/11/18 15:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager

Page 1 of 12



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

Received:	07/11/2018	Sampling Date:	07/11/2018
Reported:	07/13/2018	Sampling Type:	Soil
Project Name:	BM MARCUS BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 6" (H801890-01)

BTEX 8021B	mg,	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	07/12/2018	ND	1.84	91.8	2.00	0.0879	
Toluene*	2.58	0.500	07/12/2018	ND	1.81	90.6	2.00	0.132	
Ethylbenzene*	5.77	0.500	07/12/2018	ND	1.77	88.7	2.00	0.719	
Total Xylenes*	19.1	1.50	07/12/2018	ND	5.46	91.0	6.00	1.01	
Total BTEX	27.5	3.00	07/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE 120 % 69.8-142

TPH 8015M	mg/kg		Analyzed By: MS					\$-06		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	572	100	07/12/2018	ND	231	116	200	6.54		
DRO >C10-C28*	29300	100	07/12/2018	ND	240	120	200	22.1		
EXT DRO >C28-C36	5400	100	07/12/2018	ND						
Surrogate: 1-Chlorooctane	155 %	6 41-142	?							
Surrogate: 1-Chlorooctadecane	1470 9	6 37.6-14	17							

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

Received:	07/11/2018	Sampling Date:	07/11/2018
Reported:	07/13/2018	Sampling Type:	Soil
Project Name:	BM MARCUS BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 2' (H801890-02)

BTEX 8021B	mg/l	9	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2018	ND	1.84	91.8	2.00	0.0879	
Toluene*	0.468	0.050	07/12/2018	ND	1.81	90.6	2.00	0.132	
Ethylbenzene*	0.842	0.050	07/12/2018	ND	1.77	88.7	2.00	0.719	
Total Xylenes*	2.86	0.150	07/12/2018	ND	5.46	91.0	6.00	1.01	
Total BTEX	4.17	0.300	07/12/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	125 %	69.8-14	2						
TPH 8015M	mg/l	g	Analyze	d By: MS					

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	66.3	10.0	07/12/2018	ND	231	116	200	6.54	
DRO >C10-C28*	830	10.0	07/12/2018	ND	240	120	200	22.1	
EXT DRO >C28-C36	116	10.0	07/12/2018	ND					
Surrogate: 1-Chlorooctane	97.8	% 41-142	?						

37.6-147

Surrogate: 1-Chlorooctadecane 116 %

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

Received:	07/11/2018	Sampling Date:	07/11/2018
Reported:	07/13/2018	Sampling Type:	Soil
Project Name:	BM MARCUS BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 6" (H801890-03)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	07/12/2018	ND	1.84	91.8	2.00	0.0879	
Toluene*	0.605	0.500	07/12/2018	ND	1.81	90.6	2.00	0.132	
Ethylbenzene*	2.44	0.500	07/12/2018	ND	1.77	88.7	2.00	0.719	
Total Xylenes*	9.43	1.50	07/12/2018	ND	5.46	91.0	6.00	1.01	
Total BTEX	12.5	3.00	07/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL 112 % 69.8-142

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*	427	100	07/12/2018	ND	231	116	200	6.54		
DRO >C10-C28*	32200	100	07/12/2018	ND	240	120	200	22.1		
EXT DRO >C28-C36	6120	100	07/12/2018	ND						
Surrogate: 1-Chlorooctane	170 %	6 -11-1-12	?							
Surrogate: 1-Chlorooctadecane	1610 9	% 37.6-14	7							

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Corregi trano



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

Received:	07/11/2018	Sampling Date:	07/11/2018
Reported:	07/13/2018	Sampling Type:	Soil
Project Name:	BM MARCUS BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 1.5' (H801890-04)

BTEX 80218	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Anatyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	07/12/2018	ND	1.84	91.8	2.00	0.0879	
Toluene*	<0.200	0.200	07/12/2018	ND	1.81	90.6	2.00	0.132	
Ethylbenzene*	0.219	0.200	07/12/2018	ND	1.77	88.7	2.00	0.719	
Total Xylenes*	0.909	0.600	07/12/2018	ND	5.46	91.0	6.00	1.01	
Total BTEX	<1.20	1.20	07/12/2018	ND					
Toluene* Ethylbenzene* Total Xylenes*	<0.200 0.219 0.909	0.200 0.200 0.600	07/12/2018 07/12/2018 07/12/2018	ND ND ND	1.81 1.77	90.6 88.7	2.00 2.00	0.132 0.719	

Surrogate: 4-Bromofluorobenzene (PIE 112 % 69.8-142

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*	<50.0	50.0	07/12/2018	ND	231	116	200	6.54		
DRO >C10-C28*	1390	50.0	07/12/2018	ND	240	120	200	22.1		
EXT DRO >C28-C36	254	50.0	07/12/2018	ND						
Surrogate: 1-Chlorooctane	115 %	% 41-142	?							
Surrogate: 1-Chlorooctadecane	162 9	6 37.6-14	7							

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

Received:	07/11/2018	Sampling Date:	07/11/2018
Reported:	07/13/2018	Sampling Type:	Soil
Project Name:	BM MARCUS BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 1' (H801890-05)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.464	0.200	07/12/2018	ND	1.84	91.8	2.00	0.0879	
Toluene*	8.23	0.200	07/12/2018	ND	1.81	90.6	2.00	0.132	
Ethylbenzene*	8.60	0.200	07/12/2018	ND	1.77	88.7	2.00	0.719	
Total Xylenes*	25.8	0.600	07/12/2018	ND	5.46	91.0	6.00	1.01	
Total BTEX	43.1	1.20	07/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE 131 % 69.8-142

TPH 8015M	mg/l	g	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	962	100	07/12/2018	ND	231	116	200	6.54	
DRO >C10-C28*	35700	100	07/12/2018	ND	240	120	200	22.1	
EXT DRO >C28-C36	6860	100	07/12/2018	ND					
Surrogate: 1-Chlorooctane	208 %	6 41-142	?						
Surrogate: 1-Chlorooctadecane	1880 %	6 37.6-14	7						

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

Received:	07/11/2018	Sampling Date:	07/11/2018
Reported:	07/13/2018	Sampling Type:	Soil
Project Name:	BM MARCUS BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 1.5' (H801890-06)

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*	1.23	0.200	07/12/2018	ND	1.84	91.8	2.00	0.0879	
Toluene*	25.8	0.200	07/12/2018	ND	1.81	90.6	2.00	0.132	
Ethylbenzene*	28.0	0.200	07/12/2018	ND	1.77	88.7	2.00	0.719	
Total Xylenes*	75.1	0.600	07/12/2018	ND	5.46	91.0	6.00	1.01	
Total BTEX	130	1.20	07/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE 150 % 69.8-142

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*	2210	50.0	07/12/2018	ND	231	116	200	6.54		
DR0 >C10-C28*	13500	50.0	07/12/2018	ND	240	120	200	22.1		
EXT DRO >C28-C36	2080	50.0	07/12/2018	ND						
Surrogate 1-Chlorooctane	204 %	6 41-142	?							
Surrogate 1-Chlorooctadecane	636 %	6 37.6-14	17							

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APACHE CORP - HOBBS 8RUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received:	07/11/2018	Sampling Date:	07/11/2018
Reported:	07/13/2018	Sampling Type:	Soil
Project Name:	BM MARCUS BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 3' (H801890-07)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2018	ND	1.84	91.8	2.00	0.0879	
Toluene*	0.124	0.050	07/12/2018	ND	1.81	90.6	2.00	0.132	
Ethylbenzene*	0.327	0.050	07/12/2018	ND	1.77	88.7	2.00	0.719	
Total Xylenes*	1.12	0.150	07/12/2018	ND	5.46	91.0	6.00	1.01	
Total BTEX	1.57	0.300	07/12/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	121	% 69.8-14	2						
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value OC	RPD	Oualifier

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	48.0	10.0	07/12/2018	ND	231	116	200	6.54	
DRO >C10-C28*	1480	10.0	07/12/2018	ND	240	120	200	22.1	
EXT DRO >C28-C36	264	10.0	07/12/2018	ND					
Surrogate: 1-Chlorooctane	109		2						

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Surrogate: I-Chlorooctadecane

168 %

37.6-147

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

Received:	07/11/2018	Sampling Date:	07/11/2018
Reported:	07/13/2018	Sampling Type:	Soil
Project Name:	BM MARCUS BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ SURFACE (H801890-08)

BTEX 8021B	mg,	/kg	Analyze	d By: MS			1142		
Analyte	Result	Reporting Limit	Anatyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	07/12/2018	ND	1.84	91.8	2.00	0.0879	
Toluene*	0.228	0.200	07/12/2018	ND	1.81	90.6	2.00	0.132	
Ethylbenzene*	1.91	0.200	07/12/2018	ND	1.77	88.7	2.00	0.719	
Total Xylenes*	7.08	0.600	07/12/2018	ND	5.46	91.0	6.00	1.01	
Total BTEX	9.22	1.20	07/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE 128 % 69.8-142

1330 %

37.6-147

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*	264	100	07/12/2018	NÐ	231	116	200	6.54	
DRO >C10-C28*	24700	100	07/12/2018	ND	240	120	200	22.1	
EXT DRO >C28-C36	4930	100	07/12/2018	ND					
Surrogate: 1-Chlorooctane	146	% 41-142	2						

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Surrogate: 1-Chlorooctadecane

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

Received:	07/11/2018	Sampling Date:	07/11/2018
Reported:	07/13/2018	Sampling Type:	Soil
Project Name:	BM MARCUS BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 1' (H801890-09)

BTEX 8021B	mg,	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2018	ND	1.84	91.8	2.00	0.0879	
Toluene*	<0.050	0.050	07/12/2018	ND	1.81	90.6	2.00	0.132	
Ethylbenzene*	0.529	0.050	07/12/2018	ND	1.77	88.7	2.00	0.719	
Total Xylenes*	2.20	0.150	07/12/2018	ND	5.46	91.0	6.00	1.01	
Total BTEX	2.73	0.300	07/12/2018	ND					

Surrogate 4-Bromofluorobenzene (PIL 133 % 69.8-142

185 %

37.6-147

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*	109	50.0	07/12/2018	ND	231	116	200	6.54		
DRO >C10-C28*	1970	50.0	07/12/2018	ND	240	120	200	22.1		
EXT DRO >C28-C36	181	50.0	07/12/2018	ND						
Surrogate: I-Chlorooctane	128	% -11-1-12	?							

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Surrogate: 1-Chlorooctadecane

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

Notes and Definitions

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

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	101 East Marland, Hobbs, NM 88240	240	jen.			
Company Name:	Apache		BILL TO		ANALYSIS REQUEST	
Project Manager:			P.O. #:	_		\square
Address:			Company:			
city: Hobos	55 State: NM	Zip: 88240	Attn:			
Phone #:	Fax #:		Address:			
Project #:	Project Owner:		City:			
Project Name:			State: Zip:			
Project Location:	8		Phone #:			
Sampler Name:	Bruce BAker		Fax #:	1		
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	ГР <i>Н</i> Х		
Lab I.D.	Sample I.D.		BASE: COOL	Ext. 7 BTE.		
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4	SK 4 (0 [.	6	v 7-11-18 /:2	1:25		
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Relinquished By:		Received By:	Date: / // Received By: / Phone Res	Phone Result: Yes	D No	
Bruce B	Pacher Time: 1.15	I pravana 1	Culder of Ren			
Relinquished By:	Date: Time:	Received By:		Email		
Sampler- UPS -	(Circle One) 5,82	Sample Condition Cool Intact	n CHECKED BY: (Initials)			
+ Cardinal n	Cardinal rannot arrent workel rhannee Dlease	Diasca for written channed to 15751 202-3236	751 202 2226			L

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

July 27, 2018

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

RE: BM MARCUS BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/23/18 14:38.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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.qov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.qov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.qov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.qov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.qov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.qov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.qov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.qov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.qov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.qov/field/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.qov/field/ga/lab accredited analytes and matrices visit the TCEQ website at wwww.tceq.texas.qov/field/ga/lab accredited analytes and matrices v

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

Page 1 of 11



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

Received:	07/23/2018	Sampling Date:	07/23/2018
Reported:	07/27/2018	Sampling Type:	Soil
Project Name:	BM MARCUS BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 3' (H802001-01)

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	07/24/2018	ND	1.85	92.3	2.00	3.72	
Toluene*	<0.050	0.050	07/24/2018	ND	1.85	92.7	2.00	2.88	QR-03
Ethylbenzene*	<0.050	0.050	07/24/2018	ND	1.86	92.8	2.00	2.91	QR-03
Total Xylenes*	<0.150	0.150	07/24/2018	ND	5.39	89.8	6.00	2.89	QR-03
Total BTEX	<0.300	0.300	07/24/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIC 108 % 69.8-142

TPH 8015M	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	07/24/2018	ND	202	101	200	8.17	
DRO >C10-C28*	556	10.0	07/24/2018	ND	224	112	200	7.15	QM-07
EXT DRO >C28-C36	145	10.0	07/24/2018	ND					
Surrogate: 1-Chlorooctane	95.29	6 41-142	?						
Surrogate: 1-Chlorooctadecane	149 %	6 37.6-14	7						

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Celez D. Kune-



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

Received:	07/23/2018	Sampling Date:	07/23/2018
Reported:	07/27/2018	Sampling Type:	Soil
Project Name:	BM MARCUS BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 4' (H802001-02)

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	07/24/2018	ND	1.85	92.3	2.00	3.72	
Toluene*	<0.050	0.050	07/24/2018	ND	1.85	92.7	2.00	2.88	
Ethylbenzene*	<0.050	0.050	07/24/2018	ND	1.86	92.8	2.00	2.91	
Total Xylenes*	<0.150	0.150	07/24/2018	ND	5.39	89.8	6.00	2.89	
Total BTEX	<0.300	0.300	07/24/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 5	69.8-14	2						
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	07/24/2018	ND	202	101	200	8.17	
DR0 >C10-C28*	257	10.0	07/24/2018	ND	224	112	200	7.15	
EXT DRO >C28-C36	57.1	10.0	07/24/2018	ND					
Surrogate: 1-Chlorooctane	98.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	119 9	% 37_6-14	7						

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Celley D. Kerne



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

Received:	07/23/2018	Sampling Date:	07/23/2018
Reported:	07/27/2018	Sampling Type:	Soil
Project Name:	BM MARCUS BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 2' (H802001-03)

BTEX 8021B	'mg/	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/24/2018	ND	1.85	92.3	2.00	3.72	
Toluene*	<0.050	0.050	07/24/2018	ND	1.85	92.7	2.00	2.88	
Ethylbenzene*	<0.050	0.050	07/24/2018	ND	1.86	92.8	2.00	2.91	
Total Xylenes*	<0.150	0.150	07/24/2018	ND	5.39	89.8	6.00	2.89	
Total BTEX	<0.300	0.300	07/24/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL 103 % 69.8-142

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	07/24/2018	ND	202	101	200	8.17	
DRO >C10-C28*	235	10.0	07/24/2018	ND	224	112	200	7.15	
EXT DRO >C28-C36	68.1	10.0	07/24/2018	ND					
Surrogate: 1-Chlorooctane	97.6 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	126 %	6 37.6-14	7						

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Celey D. Keene, Lab Director/Quality Manager

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

Received:	07/23/2018	Sampling Date:	07/23/2018
Reported:	07/27/2018	Sampling Type:	Soil
Project Name:	BM MARCUS BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 3' (H802001-04)

BTEX 8021B	mg/	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/24/2018	ND	1.85	92.3	2.00	3.72	
Toiuene*	<0.050	0.050	07/24/2018	ND	1.85	92.7	2.00	2.88	
Ethylbenzene*	<0.050	0.050	07/24/2018	ND	1.86	92.8	2.00	2.91	
Total Xylenes*	<0.150	0.150	07/24/2018	ND	5.39	89.8	6.00	2.89	
Total BTEX	<0.300	0.300	07/24/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE 105 % 69.8-142

TPH 8015M	mg/l	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	07/24/2018	ND	202	101	200	8.17	
DRO >C10-C28*	154	10.0	07/24/2018	ND	224	112	200	7.15	
EXT DRO >C28-C36	40.8	10.0	07/24/2018	ND					
Surrogate: 1-Chlorooctane	87.5 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	105 %	6 37.6-14	7						

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Celleg D. Keine



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Received:	07/23/2018	Sampling Date:	07/23/2018
Reported:	07/27/2018	Sampling Type:	Soil
Project Name:	BM MARCUS BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 5' (H802001-06)

BTEX 8021B	mg,	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/24/2018	ND	1.85	92.3	2.00	3.72	
Toluene*	<0.050	0.050	07/24/2018	ND	1.85	92.7	2.00	2.88	
Ethylbenzene*	<0.050	0.050	07/24/2018	ND	1.86	92.8	2.00	2.91	
Total Xylenes*	<0.150	0.150	07/24/2018	ND	5.39	89.8	6.00	2.89	
Total BTEX	<0.300	0.300	07/24/2018	ND					

TPH 8015M	mg/l	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	07/24/2018	ND	202	101	200	8.17	
DRO >C10-C28*	332	10.0	07/24/2018	ND	224	112	200	7.15	
EXT DRO >C28-C36	92.9	10.0	07/24/2018	ND					
Surrogate: 1-Chlorooctane	76.6 %	6 41-142	?						
Surrogate: 1-Chlorooctadecane	126 %	6 37.6-14	7						

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Received:	07/23/2018	Sampling Date:	07/23/2018
Reported:	07/27/2018	Sampling Type:	Soil
Project Name:	BM MARCUS BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 4' (H802001-05)

mg/	'kg	Analyzed By: MS						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	07/24/2018	ND	1.85	92.3	2.00	3.72	
<0.050	0.050	07/24/2018	ND	1.85	92.7	2.00	2.88	
0.071	0.050	07/24/2018	ND	1.86	92.8	2.00	2.91	
0.244	0.150	07/24/2018	ND	5.39	89.8	6.00	2.89	
0.315	0.300	07/24/2018	ND					
	Result <0.050 <0.050 0.071 0.244	<0.050 0.050 <0.050 0.050 0.071 0.050 0.244 0.150	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank BS <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

Surrogate: 4-Bromofluorobenzene (PIC 106 % 69.8-142

TPH 8015M	mg/l	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	07/24/2018	ND	202	101	200	8.17	
DRO >C10-C28*	316	10.0	07/24/2018	ND	224	112	200	7.15	
EXT DRO >C28-C36	68.7	10.0	07/24/2018	ND					
Surrogate: 1-Chlorooctane	93.3 %	6 41-142	?						
Surrogate: 1-Chlorooctadecane	122 %	6 37.6-14	7						

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Received:	07/23/2018	Sampling Date:	07/23/2018
Reported:	07/27/2018	Sampling Type:	Soil
Project Name:	BM MARCUS BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 2' (H802001-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Anatyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
8enzene*	<0.050	0.050	07/24/2018	ND	1.85	92.3	2.00	3.72	
Toluene*	<0.050	0.050	07/24/2018	ND	1.85	92.7	2.00	2.88	
Ethylbenzene*	<0.050	0.050	07/24/2018	ND	1.86	92.8	2.00	2.91	
Total Xylenes*	<0.150	0.150	07/24/2018	ND	5.3 9	89.8	6.00	2.89	
Total BTEX	<0.300	0.300	07/24/2018	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 9	69.8-14	2						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Analyte	Result	Reporting Limit	Andryzeu	MELIKA DIANK	65	76 Recovery	The value QC	RFD	Quanner
GRO C6-C10*	10.3	10.0	07/24/2018	ND	202	101	200	8.17	
DRO >C10-C28*	543	10.0	07/24/2018	ND	224	112	200	7.15	
EXT DRO >C28-C36	106	10.0	07/24/2018	ND					
Surrogate: 1-Chlorooctane	94.5 %	6 41-142	?						
Surrogate: 1-Chlorooctadecane	137 %	37 6-14	17						

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

Received:	07/23/2018	Sampling Date:	07/23/2018
Reported:	07/27/2018	Sampling Type:	Soil
Project Name:	BM MARCUS BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 3' (H802001-08)

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 07/24/2018 ND 1.85 92.3 2.00 3.72 Toluene* < 0.050 0.050 07/24/2018 ND 1.85 92.7 2.00 2.88 Ethylbenzene* <0.050 0.050 07/24/2018 ND 1.86 92.8 2.00 2.91 Total Xylenes* < 0.150 0.150 07/24/2018 ND 5.39 89.8 6.00 2.89 Total BTEX <0.300 0.300 07/24/2018 ND Surrogate 4-Bromofluorobenzene (PIC 107 % 69.8-142 **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	07/24/2018	ND	202	101	200	8.17	
DRO >C10-C28*	194	10.0	07/24/2018	ND	224	112	200	7.15	
EXT DRO >C28-C36	24.8	10.0	07/24/2018	ND					
Surrogate: 1-Chlorooctane	82.5 9	6 41-142	?						
Surrogate: 1-Chlorooctadecane	108 %	6 37.6-14	7						

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Celley & Kune-

Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
24	Chloride by SM4500CI-B does not require samples be received at or below 6°C

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

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Celeg Z Keine

Celey D. Keene, Lab Director/Quality Manager

Page 10 of 11

lanager: Bruce Saker
Address: Company.
Hobbs State: NM Zip: 88240
e#: Fax#:
Project #: Project Owner: City:
ame: BM MArc
on: Phone #:
Bruce Backer
MATRIX PRESERV SAMPLING
Sample I.D. B OR (C)OMP. ITAINERS INDWATER EWATER GE R : BASE: COOL
CO GRO WAS SOIL OIL SLUI OTH ACIE
1 SP 1 @ 3' G 1 V 7. 1 V/ 7.3348 1:00m V
2 SP 1 @ 41 6 1 V 11 1135m V
2' $6''$ $4'$
SP 2 @ 3' 6 11 1/ 1/ 11
N N 1 3
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affitates or successors white out of the performance of username and the output of the performance includes of username to the performance includes of username to the performance of th
CALLONA WILLEY REMA
Delivered By: (Circle One) 5.8° Sample Condition CHECKED BY: Cool Intact (Initials)
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST