

Deferment Request

February 4, 2020

Re: WS Marshall B-011 API# 30-025-37895 Case # 1RP-5456

On April 22, 2019 a release occurred due to a gasket failure on a heater treater at the above listed location. An initial C-141 was submitted to NMOCD and approved on April 24, 2019. The release is located north of Eunice New Mexico (GPS: 32.449000, -103.15510) in unit letter L, section 27, township 21S range 37E. Groundwater data was collected utilizing NMOSE wells of record. 2 wells were located within a ½ mile radius with an average depth of groundwater of 44 feet below ground surface. A USGS topographic map was utilized and there are no significate water courses within a ½ mile radius of the release site.

The entire release was contained to the lease pad except some light overspray on the vegetation in the pasture. The overspray on the vegetation was cleaned the day of the release with micro-blaze. Standing fluid was picked up via vacuum truck. Vertical delineation was conducted on June 6, 2019 utilizing a backhoe at sample point 1 (SP1) and a hand auger at sample point 2 (SP2). Samples were collected in one-foot (1') intervals and submitted to a commercial laboratory for CL, TPH, and BTEX. A remediation plan was submitted to NMOCD and denied on September 3, 2019 due to SP 2 was not fully delineated.

On September 11, 2019 SP 2 was further delineated to a depth of 3' and the 3 foot sample was taken to a commercial laboratory for analysis of chloride, TPH, and BTEX. Another sample point (SP 3) was added inside the battery area of the release and advanced to a total depth of 9 feet. Representative samples were collected and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Laboratory results showed that SP 2 was below table one standards at 3 feet and SP 3 was below table one standards at 9 feet.

The area (SP 1) on the lease pad outside the battery containment was excavated to a depth of 1 foot below ground surface. On October 11, 2019 final 5 point bottom and wall samples were collected not to exceed 200 square feet. All samples were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Laboratory results showed TPH levels above table one standards for B4, B7, B10, B12, B13, B15, and B17. Those areas were further excavated to a depth of 1.5 and 1.6 feet. 5 point bottom composite samples were collected on 10/23/2019 and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Laboratory results were below table one standards.

The release area in the battery was excavated utilizing hand shovels to a depth of 6 inches. On October 23, 2019 final 5 point bottom and wall samples were collected not to exceed 200 square feet and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. All samples were above table one standards for TPH. That area was not further excavated due to the close proximity to facility infrastructure. All excavated material was hauled to an NMOCD

approved disposal facility. The excavated areas were backfilled with clean imported caliche to ground surface.

Apache Corporation has remediated the release area on the pad outside the battery to below table one standards. Apache Corporation request that the remainder contamination inside the battery containment be deferred until system abandonment.

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

Submitted by;

Environmental Technician

larry.baker@apachecorp.com

Cell# 432-631-6982 Off# 575-393-7106

Bruce Baker

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NDHR1912732011
District RP	1RP-5456
Facility ID	fDHR1912731062
Application ID	pDHR1912731640

Release Notification

Responsible Party	Apache Corporation	1	OGRID	873				
Contact Name	Bruce Baker		Contact 1	Contact Telephone 432-631-6982				
Contact email	larry.baker@apacl	hecorp.com	Incident	(assigned by OCD)				
Contact mailing addre			NM 88240					
			of Release S	Source				
atitude 3	2.44928		Longitude	-103.15499				
		(NAD 83 in decin	nal degrees to 5 dec					
Site Name W.S. Ma	rshall B-1 Batter		Site Type	Battery				
Date Release Discover	ed 4/22/2019			oplicable) Nearest Well 30-025-37895				
Unit Letter Section		Range	Cot	County				
L 27	218	37E	Le	Lea				
Surface Owner: 🔲 Sta		Nature and		Dalanca				
Mate	vial(s) Released (Select all Volume Released	I that apply and attach ca	alculations or specif	volume Recovered (bbls) 8 barrels				
Mate ✓ Crude Oil ✓ Produced Water	Volume Released Volume Released	that apply and attach cod (bbls) 10 barr	alculations or specif	ic justification for the volumes provided below)				
☑ Crude Oil ☑ Produced Water	Volume Release	that apply and attach cod (bbls) 10 barred (bbls) 25 barred ion of dissolved chl	alculations or specif rels	Volume Recovered (bbls) 8 barrels				
☑ Crude Oil	Volume Released Volume Released Is the concentrat	that apply and attach co d (bbls) 10 barre d (bbls) 25 barre ion of dissolved chl >10,000 mg/l?	alculations or specif rels	volume Recovered (bbls) 8 barrels Volume Recovered (bbls) 4 recovered				
☑ Crude Oil ☑ Produced Water	Volume Released Volume Released Is the concentrate produced water	that apply and attach co d (bbls) 10 barre d (bbls) 25 barre ion of dissolved chl >10,000 mg/l? d (bbls)	alculations or specif rels	Volume Recovered (bbls) 4 recovered Volume Recovered Volume Recovered (bbls) 2 recovered Ves No				

Incident ID	NDHR1912732011
District RP	1RP-5456
Facility ID	fDHR1912731062
Application ID	pDHR1912731640

Was this a major release as defined by	If YES, for what reason(s) does to Release volume greater to	the responsible party consider this a major release?
19.15.29.7(A) NMAC?	Tresease voidine greater	ulali 20 Dalleis
Yes No		
	notice given to the OCD? By whomed Jim Griswold (NMOCD)	n? To whom? When and by what means (phone, email, etc)? via email on 4/23/2019
	In	itial Response
The responsible	party must undertake the following actions	immediately unless they could create a safety hazard that would result in injury
The source of the rel	lease has been stopped.	
☑ The impacted area ha	as been secured to protect human h	ealth and the environment.
		perms or dikes, absorbent pads, or other containment devices.
	recoverable materials have been rer	
	ed above have <u>not</u> been undertaken.	
If all the actions describe	ed above have <u>not</u> been undertaken. AAC the responsible party may cor	nmence remediation immediately after discovery of a release. If remediation
If all the actions describe Per 19.15.29.8 B. (4) NN has begun, please attach	MAC the responsible party may con a narrative of actions to date. If	
Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containment of the conta	MAC the responsible party may cor a narrative of actions to date. If the action and the action of th	mmence remediation immediately after discovery of a release. If remediatio remedial efforts have been successfully completed or if the release occurre
Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containment of the information and the information and the environ failed to adequately investiguaddition. OCD acceptance cand/or regulations.	MAC the responsible party may con a narrative of actions to date. If and area (see 19.15.29.11(A)(5)(a) Normation given above is true and compete required to report and/or file certain ment. The acceptance of a C-141 report and remediate contamination that of a C-141 report does not relieve the of	mmence remediation immediately after discovery of a release. If remediatio remedial efforts have been successfully completed or if the release occurre NMAC), please attach all information needed for closure evaluation. Lete to the best of my knowledge and understand that pursuant to OCD rules and elease notifications and perform corrective actions for releases which may endanger on by the OCD does not relieve the operator of liability should their operations have pose a threat to groundwater, surface water, human health or the environment. In
Per 19.15.29.8 B. (4) NN has begun, please attach within a lined containme. I hereby certify that the inforegulations all operators are public health or the environ failed to adequately investig	MAC the responsible party may core a narrative of actions to date. If ent area (see 19.15.29.11(A)(5)(a) is presented to report and/or file certain report. The acceptance of a C-141 report does not relieve the ore Baker	mmence remediation immediately after discovery of a release. If remediation remedial efforts have been successfully completed or if the release occurre NMAC), please attach all information needed for closure evaluation. The letter to the best of my knowledge and understand that pursuant to OCD rules and elease notifications and perform corrective actions for releases which may endanger out by the OCD does not relieve the operator of liability should their operations have pose a threat to groundwater, surface water, human health or the environment. In operator of responsibility for compliance with any other federal, state, or local laws
Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containme. I hereby certify that the inforegulations all operators are public health or the environ failed to adequately investig addition. OCD acceptance of and/or regulations. Printed Name: Bruce Signature: Bruce	MAC the responsible party may core a narrative of actions to date. If ent area (see 19.15.29.11(A)(5)(a) is presented to report and/or file certain report. The acceptance of a C-141 report does not relieve the ore Baker	mmence remediation immediately after discovery of a release. If remediation remedial efforts have been successfully completed or if the release occurre NMAC), please attach all information needed for closure evaluation. Lete to the best of my knowledge and understand that pursuant to OCD rules and elease notifications and perform corrective actions for releases which may endanger out by the OCD does not relieve the operator of liability should their operations have pose a threat to groundwater, surface water, human health or the environment. In operator of responsibility for compliance with any other federal, state, or local laws Title:Environmental Tech. SR
Per 19.15.29.8 B. (4) NM has begun, please attach within a lined containme. I hereby certify that the inforegulations all operators are public health or the environ failed to adequately investig addition. OCD acceptance of and/or regulations. Printed Name: Bruce Signature: Bruce	MAC the responsible party may core a narrative of actions to date. If an arrative of actions to date. If an area (see 19.15.29.11(A)(5)(a) Normation given above is true and compete required to report and/or file certain moment. The acceptance of a C-141 report and remediate contamination that of a C-141 report does not relieve the ore Baker	mmence remediation immediately after discovery of a release. If remediation remedial efforts have been successfully completed or if the release occurrent NMAC), please attach all information needed for closure evaluation. Title: Environmental Tech. SR A/24/2019



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?	45 (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 ve contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	ertical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring we Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information	lls.
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.

Received by OCD: 2/4/2020 2:19:20



Incident ID	
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Application ID	

regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a thn addition. OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name: JEFF BRUM Signature: JEFF Brum cmail: Jeffrey, Brum Dapache Curp. com	Title: ENV. TECH Date: 7/18/19 Telephone: 433. 664. 4677
OCD Only Received by:	Dale:

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Pamadiation Plan Charlists Fack of the following its west	a treatment of the attenuation
Remediation Plan Checklist: Each of the following items must be	e incluaea in the plan.
☐ Detailed description of proposed remediation technique	
Scaled sitemap with GPS coordinates showing delineation point	
Estimated volume of material to be remediated	S
Closure criteria is to Table 1 specifications subject to 19.15.29.1	2/CV/A) NIMA C
Proposed schedule for remediation (note if remediation plan tim	
Troposed senerale for remediation (note in remediation plan till	enne is more man 30 days OCD approvar is required)
Deferral Requests Only: Each of the following items must be con	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around pr	oduction equipment where remediation could cause a major facility
deconstruction.	
Extents of contamination must be fully delineated.	
Extents of containmation must be fully defineated.	
Contamination does not cause an imminent risk to human health	the environment or groundwater
	, the character, or groundwater.
I hereby certify that the information given above is true and complete	e to the best of my knowledge and understand that pursuant to OCD
rules and regulations all operators are required to report and/or file of	ertain release notifications and perform corrective actions for releases
which may endanger public health or the environment. The accepta	nce 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 a	acceptance of a C-141 report does not relieve the operator of
responsibility for compliance with any other federal, state, or local I	aws and/or regulations.
Printed Name: Bruce BAKEr Signature: Baker email: Larry. baker@ apachecorp.com	Title: Environmental Tech SR.
A A A	
Signature: Bruce Bahn	Date: 2-4-20
email: tarry.baker@apachecorp.com	Telephone: 432 - 631 - 6982
0	
OCD O-I	
OCD Only	
Received by:	Date:
	Date,
Approved Approved with Attached Conditions of	Approval Denied Deferral Approved
Signature:	Date:





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 UTM in meters)

Well Tag

POD Number

Q64 Q16 Q4 Sec Tws Rng

X

CP 01096 POD1

2 4 28 21S 37E

672861 3591708

Driller License:

1670

4.00

Driller Company: HARRISON & COOPER, INC. (WD-1670)

Driller Name:

COOPER, KEN D.

Drill Start Date: 06/19/2012

Drill Finish Date:

06/19/2012

Plug Date:

Log File Date:

07/19/2012

PCW Rcv Date:

Source:

Estimated Yield:

Shallow

Pump Type: Casing Size: Pipe Discharge Size: Depth Well:

108 feet

Depth Water:

48 feet

Water Bearing Stratifications:

Top Bottom Description

48

108 Other/Unknown

Casing Perforations:

Top Bottom

98

108



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 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng 4 27 21S 37E

X 674108 3591371

Driller License: 1575

Driller Company: TALON/LPE

Driller Name:

CURRIE, SHANE

Drill Start Date: 10/07/2008

CP 01001 POD1

Drill Finish Date:

10/08/2008

Plug Date:

Log File Date:

Source:

11/20/2008

PCW Rcv Date:

Pipe Discharge Size:

Estimated Yield:

Shallow

Pump Type: Casing Size:

4.00

Depth Well:

72 feet

Depth Water:

40 feet

Water Bearing Stratifications:

Top Bottom Description

69 Sandstone/Gravel/Conglomerate

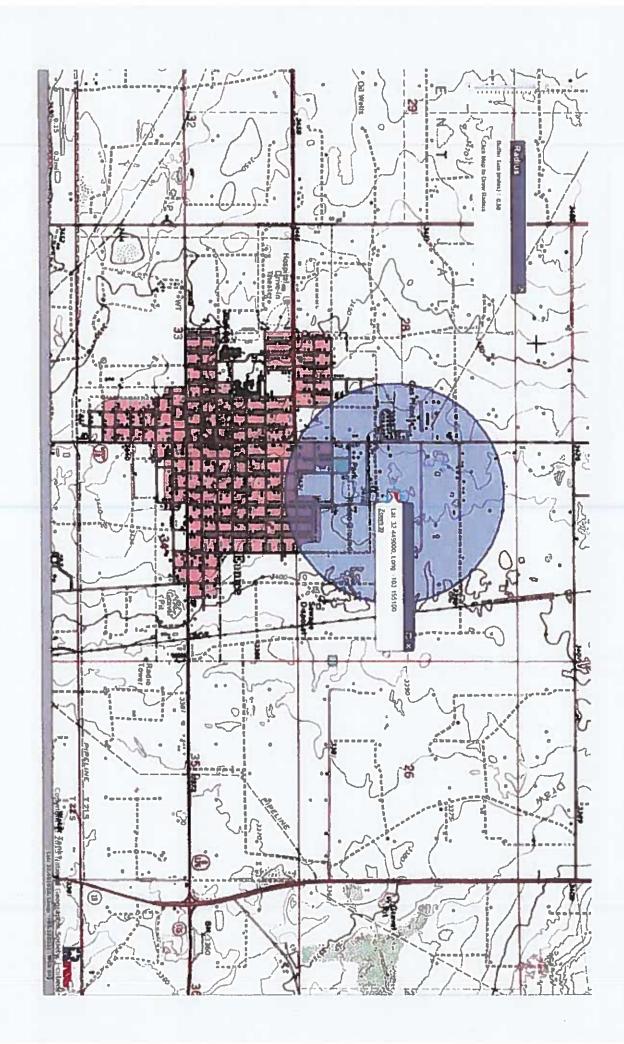
Casing Perforations:

Top Bottom

50

42

70

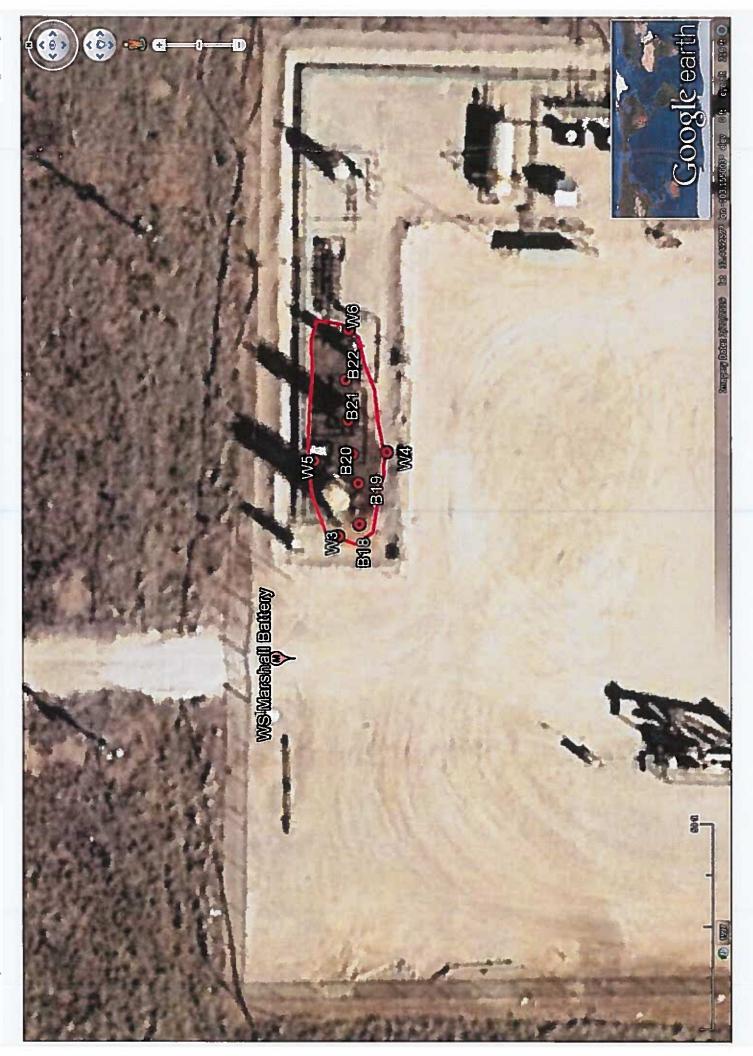




Delineation Samples

GPS	32.449166 - 103.155003		32.449301 - 103.154962			32.449301 - 9/11/2019 103.154953				
Date sampled	6/6/2019	6/6/2019	6/6/2019	6/6/2019	9/11/2019	9/11/2019	9/11/2019	9/11/5019	9/11/2019	9/11/2019
EXT DRO	2500	<10.0	<10.0	43.9	<10.0	7700	203	<10.0	113	<10.0
DRO	10,500	<10.0	<10.0	352	<10.0	26600	1680	<10.0	522	<10.0
GRO	<50.0	<10.0	<10.0	10.9	<10.0	334	52	<10.0	<10.0	<10.0
Total BTEX	<0.300	<0.300	<0.300	<0.300	<0.300	3.88	2.22	<0.300	008:0>	<0.300
thybenzenotal Xylene Total BTEX	<0.150	<0.150	<0.150	<0.150	<0.150	3.10	1.59	<0.150	<0.150	<0.150
thybenzen	<0.050	<0.050	<0.050	<0.050	<0.050	0.132	0.346	<0.050	<0.050	<0.050
Toluene	<0.050	<0.050	<0.050	<0.050	<0.050	0.647	0.207	<0.050	<0.050	<0.050
Benzene	0.225	<0.050	<0.050	<0.050	<0.050	<0.050	0.075	<0.050	<0.050	<0.050
CL-	128	32	64	32	<16.0	<16.0	64	809	368	48
Depth	Surface	1,	Surface	1,	3,	Surface	1,	3,	.9	6,
Sample Pt.	SP 1	SP 1	SP 2	SP 2	SP 2	SP 3	SP 3	SP 3	SP 3	SP 3





Bottom Samples

ed GPS	32.449111 - 1019 103.154838	32.449118 - 103.154912	32,449109 - 103,154952	32.449167 - 1019 103.154936	010	32.449152 - 10/11/2019 103.154928	32.449098 - 103.154971	32.449113 - 10/11/2019 103.154980	010	32.449145 - 10/11/2019 103.154968	019	32.449101 - 10/11/2019 103.155019	32.449123 - 10/11/2019 103.155017
Date sampled	10/11/2019	10/11/2019	10/11/2019	10/11/2019	10/23/2019	10/11/2	10/11/2019	10/11/2	10/23/2019	10/11/2	10/23/2019	10/11/2	10/11/2
EXT DRO	<10.0	<10.0	18.1	143	<10.0	23.4	12.2	31.4	<10.0	27.9	<10.0	<10.0	20.5
DRO	<10.0	10.4	69.3	521	<10.0	57.8	54.7	131	<10.0	139	<10.0	16.2	117
GRO	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
Total BTEX	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Total Xylenes	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0,150	<0.150
Ethybenzene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	0.064	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Benzene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
CI-	<16.0	<16.0	16	32	<16.0	16	<16.0	16	16	48	16	<16.0	<16.0
Depth	1'	1,	1,	1.	1.5'	1,	ŧ-l	ä	1.5'	1,	1.5'	-	H
Sample Pt.	81	82	B3	B 4	B4	BS	96	87	87	88	B8	89	810

32.449147 -	32.449109 - 103.155047		32.449158 -		32.449191 - 103.155061	32.449105 -	J.	32.449120 - 103.155079	32.449130 - 103.155121		32.449302 - 103.154980	32.449310 -	32.449235 -	32.449228 - 103.154939
10/11/2019	32.449109 - 10/11/2019 103.155047	10/23/2019	32.449158 - 10/11/2019 103.155054	10/23/2019	32.449191 - 10/11/2019 103.155061	32,449105 - 10/11/2019 103.155080	10/23/2019	32.449120 - 10/11/2019 103.155079	10/11/2019	10/23/2019	10/23/2019	10/23/2019	10/23/2019	10/23/2019
<10.0	13.9	<10.0	56.6	<10.0	<10.0	27.8	<10.0	<10.0	14.8	<10.0	1110	1460	2860	2730
27.6	87.9	<10.0	226	<10.0	21.8	153	<10.0	37.2	106	<10.0	5300	7450	122000	11400
<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	56.4	225	407	212
<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	1.15	10.8	13.7	4.69
<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	0.911	7.78	9.93	3.34
<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.243	2.09	2.46	1.01
<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.956	1.26	0.34
<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.100	<0.200	<0.100
<16.0	16	16	32	<16.0	32	<16.0	<16.0	<16.0	16	<16.0	80	80	400	528
1,	11	1.5'	Ä	1.6'	1,	Ť	1.6'	1,	-	1.6'	ŗú	,5;	0.5	0.5'
B11	B12	812	813	B13	814	815	B15	816	817	817	818	819	820	B21

<u></u>								
32.449264 - 103.154918		GPS	32.449077 - 103.155077	32.449074 - 103.154881	32.449295 - 103.154970	32.449242 - 103.154950	32.449306 - 103.154980	32.449279 -
32.449264 - 10/23/2019 103.154918		Date sampled	10/11/2019	32.449074 - 10/11/2019 103.154881	32,449295 - 10/23/2019 103.154970	10/23/2019	32.449306 - 10/23/2019 103.154980	32.449279 -
1600		EXT DRO	<10.0	<10.0	1210	1380	3800	1450
7600		DRO	<10.0	<10.0	5230	5370	16600	6420
248		GRO	<10.0	<10.0	<50.0	<10.0	<50.0	<50.0
7.14		Total BTEX	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
4.78	Wall Samples	Total Xylenes	<0.150	<0.150	<0.150	<0.150	<0,150	<0.150
1.58		Ethybenzene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
0.787		Toluene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
<0.100		Benzene	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
48		-TD	48	64	48	96	224	32
0.5		Depth						
822		Sample Pt.	W1	W2	W3	W4	WS	9/\



June 13, 2019

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

RE: WS MARSHALL

HOBBS, NM 88240

Enclosed are the results of analyses for samples received by the laboratory on 06/06/19 14:00.

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.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.

Celeg D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

06/06/2019

Reported: Project Name: 06/13/2019 WS MARSHALL

Project Number: Project Location:

NONE GIVEN

Sampling Date:

06/06/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 1 @ SURFACE (H901986-01)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.225	0.050	06/11/2019	ND	2.22	111	2.00	0.995	
Toluene*	<0.050	0.050	06/11/2019	ND	1.86	93.2	2.00	0.501	
Ethylbenzene*	<0.050	0.050	06/11/2019	ND	2.17	109	2.00	3.14	
Total Xylenes*	< 0.150	0.150	06/11/2019	ND	5.64	94.0	6.00	3.49	
Total BTEX	<0.300	0.300	06/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	91.0	6 73 3-12	9						
Chloride, 5M4500CI-B	eng/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/10/2019	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	06/08/2019	ND	244	122	200	1.39	
DRO >C10-C28*	10500	50.0	06/08/2019	ND	221	111	200	0.645	
EXT DRO >C28-C36	2500	50.0	06/08/2019	ND					
Surrogate: 1-Chlorooctane	106 9	6 41-142	?						
Surrogate: 1-Chlorooctadecane	570 9	37.6-14	17						

Cardinal Laboratories

*=Accredited Analyte

REASE NOTE: Unitery and Demants, Carthor's finishing and client's containing repress for any client principle of the property of the property

Carry & Acres



Analytical Results For:

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

Received: Reported: 06/06/2019

06/13/2019

Project Name: Project Number:

Project Location:

WS MARSHALL NONE GIVEN

NONE GIVEN

Sampling Date:

06/06/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 1 @ 1' (H901986-02)

RTFY ROOTS

	01191		7441720	4 0 J. 01					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
Benzene*	<0.050	0.050	06/11/2019	ND	2.22	111	2.00	0.995	
Toluene*	<0.050	0.050	06/11/2019	ND	1.86	93.2	2.00	0.501	
Ethylbenzene*	<0.050	0.050	06/11/2019	ND	2.17	109	2.00	3.14	
Total Xylenes*	<0.150	0.150	06/11/2019	ND	5.64	94.0	6,00	3.49	
Total BTEX	<0.300	0.300	06/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIC

96.3 %

73.3-129

Chloride, SM4SDOCI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/10/2019	ND	416	104	400	0.00	
TPH 6015M	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	06/08/2019	ND	244	122	200	1.39	
DRO >C10-C28*	<10.0	10.0	06/08/2019	ND	221	111	200	0.645	
EXT DRO >C28-C36	<10.0	10.0	06/08/2019	ND					
Surrogate: 1-Chlorooctane	99.5	% 41-142							

Surrogate: I-Chlorooctadecane

102 %

37.6-147

Cardinal Laboratories

*=Accredited Analyte

Mary " . tree-

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:

06/06/2019 06/13/2019

Reported: Project Name: Project Number:

WS MARSHALL NONE GIVEN

Project Location:

NONE GIVEN

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: 06/06/2019

Soil

Cool & Intact Tamara Oldaker

Sample ID: SP 2 @ SURFACE (H901986-03)

BTEX 80218

mg/kg

Analyzed By: BF

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0,050	06/11/2019	ND	2.22	111	2.00	0.995	
Toluene*	<0.050	0.050	06/11/2019	ND	1.86	93.2	2.00	0.501	
Ethylbenzene*	<0.050	0.050	06/11/2019	ND	2.17	109	2.00	3.14	
Total Xylenes*	<0.150	0.150	06/11/2019	ND	5.64	94.0	6.00	3.49	
Total BTEX	<0.300	0.300	06/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL

113 %

73 3-129

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16,0	06/10/2019	ND	416	104	400	0.00	
TPH 6015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
GRO C6-C10*	<10.0	10.0	06/08/2019	ND	244	122	200	1.39	
DRO >C10-C28*	<10.0	10.0	06/08/2019	ND	221	111	200	0.645	
EXT DRO >C28-C36	<10.0	10.0	06/08/2019	ND					
Summander I Chiamandana	00.3								

Surrogate: 1-Chlorooctane

99.2 %

41-142 37.6-147

Surrogate. 1-Chlorooctadecane

101 %

Cardinal Laboratories

*=Accredited Analyte

FLASE ROTE Liability and Damages. Content's booking and clusted; suchairs remain for any class strange, whether based in content or set, shall be bridged to the enterest gold by class for mulyous. All classes, including dross for negligarize and any other classes whether this be desired would will be said. Surplied by fields for tradepoint of the applicable service. In me would Confined by fields for tradepoint or management distinguish.

Challing, without finalists, business meaningtons, less of lost, or less of purity incomed by Cheel, or an excessions and excessions and any of the other classes meaningtons, less of lost, or less of purity incomed by Cheel, or an excessions and excessions are content on the service finalists or excessions.

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Analytical Results For:

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

Fax To:

Received:

06/06/2019

Reported: Project Name: 06/13/2019 WS MARSHALL

Project Number: Project Location: **NONE GIVEN NONE GIVEN** Sampling Date:

06/06/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Sample ID: SP 2 @ 1' (H901986-04)

STEX	80218

_	_	. 4	٠

	zed	

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2019	ND	2.22	111	2.00	0.995	
Toluene*	<0.050	0.050	06/11/2019	ND	1.86	93.2	2.00	0.501	
Ethylbenzene*	<0.050	0.050	05/11/2019	ND	2.17	109	2.00	3.14	
Total Xylenes*	<0.150	0.150	06/11/2019	ND	5.64	94.0	6.00	3.49	
Total BTEX	<0.300	0.300	06/11/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL

103 %

73.3-129

Chloride.	SM4500CI-8

Chioride, SM4500CI-B	វាជ្ញ	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/10/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	10.9	10.0	06/08/2019	ND	244	122	200	1.39	
DRO >C10-C28*	352	10.0	06/08/2019	ND	221	111	200	0.645	
EXT DRO >C28-C36	43.9	10.0	06/08/2019	ND					

Surrogate: 1-Chloroactane

94.5 %

41-142

Surrogate: 1-Chlorooctadecane

109 %

37.6-147

Cardinal Laboratories

*=Accredited Analyte

Party " Arens

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.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
	Chloride by SM4500Cl-8 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 PUTE: Untilly and Damages. Continuits building and chant's exclusive naturally for any claims arturing, whether bessel in contract or text, shall be beniesed to the contract paid by claims for analysiss. At claims, explaining those for negligency and any other chans whiteness which be desired visions and other claims and other claims are contracted by Cardinal within thing (100) days offer companies of the applicable service. In one event shall be desired for including the contraction of the applicable services, in one event shall be performance of the services forwarder by Cardinal, required and other contractions are contracted by Cardinal within the contraction of the contraction of the contraction of the contraction of the services forwarder by Cardinal, required and other because to otherwise. Benefit offers or the contraction of the contractio

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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: HUACHE (ORD.		BILLTO	ANALYSIS REQUEST
		P.O. #:	
Address:		Company:	
City: State:	Zip:	Attn:	
Phone #: Fax #:		Address:	
Project #: Project Owner:	ler:	City:	
Project Name: L/S MARSHALL		State: Zip:	
Project Location: US MARSHALL		Phone #:	
Sampler Name: 13,000		Fax #:	
ATMO BET INTI MOS	MATRIX	PRESERV. SAMPLING	
Lab I.D. Sample I.D.	AB OR (C)OMP DITAINERS DUNDWATER STEWATER	IER: D/BASE: I/ COOL IER:	CL RIEX EX. TPH
1 SPI D Surface			
2 SP100 1'		12:50	
3 582 @ Sudace		1 1/304	
		6-6-19 1306	
PLEASE NOTE: Usaday and Charugus. Conducts basely and devel acclusive remody for any claim probig implies based in sovered or too, shall be livined to the animal public for the tax too	at any chart priving whether based in contract	or tert, shall be irrhed to the arrawal paid by the client t	Dr. She
series. In ne exect shall Confide the hallo de Incidental of compaquental damagnes, including without femance, haudens bisertagings, form of use, or loss of profits incurred by cliniques, a little profits by the second of the profits by the second of the profits by the second of th	en urbod lentaton, budoca biorityttora, y Cantinal, regestiesa of urbotrar tach clam	tase of use, or leas of profits locarred by client, its justice to heaved upon any of the above stated recours or espera	Harten
Relinquished By: Date: /_/-/5	S Received By:	Phone Result:	esult: D Yes D No Add Phone #:

Relinquished By:

Time: 9:00 Date:

Received By:

Date: 6-6-15 | Received By:

Phone Result: D Yes D No |Add'l Phone #:
Fax Result: D Yes D No |Add'l Fax #:
REMARKS:

Delivered By: (Circle One)

Time:



September 18, 2019

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: MARSHALL B 001

Enclosed are the results of analyses for samples received by the laboratory on 09/11/19 16:00.

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.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.

Celeg D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received:

09/11/2019

Reported: Project Name: 09/18/2019 MARSHALL B 001

Project Number: Project Location: NONE GIVEN **NOT GIVEN**

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

09/11/2019

Soil

Cool & Intact Tamara Oldaker

Sample ID: SP 2 @ 3 32.449301 (H903146-01)

BTEX 8021B	mg/	'kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
Benzene*	<0.050	0.050	09/16/2019	ND	1.84	92.0	2.00	6.79	
Toluene*	<0.050	0.050	09/16/2019	ND	1.89	94.4	2.00	4.62	
Ethylbenzene*	<0.050	0.050	09/16/2019	ND	1.94	96.9	2.00	4.64	
Total Xylenes*	<0.150	0.150	09/16/2019	ND	5.87	97.9	6.00	5.18	
Total BTEX	<0.300	0.300	09/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	80.3	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					S 0
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2019	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	09/12/2019	ND	195	97.7	200	6.40	
DRO >C10-C28*	<10.0	10.0	09/12/2019	ND	198	99.0	200	7.79	
EXT DRO >C28-C36	<10.0	10.0	09/12/2019	ND					
Surrogate: 1-Chlorooctane	91.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	99.9	% 37.6-14	17						

Cardinal Laboratories

*=Accredited Analyte

including, without limitation, business interruptions, loss of user, or loss of profits inclumed by client, its subsidial closes is based upon any of the above stated resource or otherwise. Results relate only to the samples identified above. This report sh sors arising out of or related to the perform





Analytical Results For:

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

Received: Reported: 09/11/2019

09/18/2019

Project Name: Project Number: MARSHALL B 001 **NONE GIVEN**

Project Location:

NOT GIVEN

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

09/11/2019

Soil

Cool & Intact

Tamara Oldaker

Sample ID: SP 3 @ SURFACE - 103.154962 (H903146-02)

BTEX 8021B	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2019	ND	2.14	107	2.00	2.36	GC-NC
Toluene*	0.647	0.050	09/16/2019	ND	1.96	98.0	2.00	4.79	
Ethylbenzene*	0.132	0.050	09/16/2019	ND	2.42	121	2.00	17.2	
Total Xylenes*	3.10	0.150	09/16/2019	ND	6.01	100	6.00	1.48	
Total BTEX	3.88	0.300	09/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	127	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/16/2019	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*	334	100	09/12/2019	ND	195	97.7	200	6.40	
DRO >C10-C28*	26600	100	09/12/2019	ND	198	99.0	200	7.79	
EXT DRO >C28-C36	7700	100	09/12/2019	ND					
Surrogate: 1-Chlorooctane	148	% 41-142	?						
Surrogate: 1-Chlorooctadecane	875	% 37.6-14	17						

Cardinal Laboratories

*=Accredited Analyte

any other cause whatconver shall be deemed welved unless made in writing and received by Cardinel within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for including, without limitation, business interruptions, loss of use, or loss of profits including by chief, it's subsidients, affiliates or successors arising out of or related to the performance of the services hereunder by

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

09/11/2019

Reported:

09/18/2019 MARSHALL B 001

Project Name: Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

09/11/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 3 @ 1 32.449301 (H903146-03)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.075	0.050	09/16/2019	ND	2.14	107	2.00	2.36	
Toluene*	0.207	0.050	09/16/2019	ND	1.96	98.0	2.00	4.79	
Ethylbenzene*	0.346	0.050	09/16/2019	ND	2.42	121	2.00	17.2	
Total Xylenes*	1.59	0.150	09/16/2019	ND	6.01	100	6.00	1.48	
Total STEX	2.22	0.300	09/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	127 9	6 73.3-12	9						
Chloride, SM4500Cl-8	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/16/2019	ND	416	104	400	0.00	
ГРН 8015M	mg/	kg	Analyze	d By: MS					5-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	52.0	50.0	09/12/2019	ND	195	97.7	200	6.40	
DRO >C10-C28*	1680	50.0	09/12/2019	ND	198	99.0	200	7.79	
EXT DRO >C28-C36	203	50.0	09/12/2019	ND					
Surrogate: I-Chlorooctane	112 9	6 41-142	2					100.1	2000

Surrogate. 1-Chlorooctadecane 155 % 37.6-147

Cardinal Laboratories

Received by OCD: 2/4/2020 2:19:20 PM

*=Accredited Analyte

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 09/11/2019 09/18/2019

Project Name: Project Number: MARSHALL B 001 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By:

09/11/2019

Soil

Cool & Intact Tamara Oldaker

Sample ID: SP 3 @ 3 -103.154953 (H903146-04)

BTEX 8021B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
Benzene*	<0.050	0.050	09/16/2019	ND	2.14	107	2.00	2.36	
Toluene*	<0.050	0.050	09/16/2019	ND	1.96	98.0	2.00	4.79	
Ethylbenzene*	<0.050	0.050	09/16/2019	ND	2.42	121	2.00	17.2	
Total Xylenes*	<0.150	0.150	09/16/2019	ND	6.01	100	6.00	1.48	
Total BTEX	<0.300	0.300	09/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.7	% 73.3-12	19						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	09/16/2019	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	09/12/2019	ND	195	97.7	200	6.40	
DRO >C10-C28*	<10.0	10.0	09/12/2019	ND	198	99.0	200	7.79	
EXT DRO >C28-C36	<10.0	10.0	09/12/2019	ND					
Surrogate: 1-Chlorooctane	92.4	% 41-142	?						
		بالبيد وال	E.						

Surrogate: 1-Chlorooctadecane

98.9 %

37.6-147

Cardinal Laboratories

*=Accredited Analyte

any other cause whatsoners shall be desired welved unique made in writing and received by Cardrell with including, without limitation, business interruptions, tops of use, or lose of profits incurred by client, its subsidiers in based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report

Colon Zitrona



Analytical Results For:

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

Received:

09/11/2019

Reported:

09/18/2019

Project Name: Project Number: MARSHALL B 001 **NONE GIVEN**

Project Location:

NOT GIVEN

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

09/11/2019

Soil

Cool & Intact Tamara Oldaker

Sample ID: SP 3 @ 6 (H903146-05)

BTEX 80218	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Велгеле*	<0.050	0.050	09/16/2019	ND	2.14	107	2.00	2.36	
Toluene*	<0.050	0.050	09/16/2019	ND	1.96	98.0	2.00	4.79	
Ethylbenzene*	<0.050	0.050	09/16/2019	ND	2.42	121	2.00	17.2	
Total Xylenes*	<0.150	0.150	09/16/2019	ND	6.01	100	6.00	1.48	
Total BTEX	<0.300	0.300	09/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	98.0	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC			_		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
Chloride //	368	16.0	09/16/2019	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	09/12/2019	ND	195	97.7	200	6.40	
DRO >C10-C28*	522	10.0	09/12/2019	ND	198	99.0	200	7.79	
EXT DRO >C28-C36	113	10.0	09/12/2019	ND					
Surrogate: 1-Chlorooctane	93.5	% 41-142				7.			

Surrogate: 1-Chlorooctadecane

114%

37-6-147

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any other cause whatevever shall be desired weived unless made in writing and received by Carsinal with including, without firmitation, business interruptions, loss of use, or loss of profits incurred by clears, its subs

Colony I trans



Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

09/11/2019

Reported: Project Name: 09/18/2019 MARSHALL B 001

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

09/11/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: SP 3 @ 9 (H903146-06)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
Benzene*	<0.050	0.050	09/16/2019	ND	2.14	107	2.00	2.36	
Toluene*	<0.050	0.050	09/16/2019	ND	1.96	98.0	2.00	4.79	
Ethylbenzene*	<0.050	0.050	09/16/2019	ND	2.42	121	2.00	17.2	
Total Xylenes*	<0.150	0.150	09/16/2019	ND	6.01	100	6.00	1.48	
Total BTEX	<0.300	0.300	09/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.1	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/16/2019	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	09/12/2019	ND	195	97.7	200	6.40	
DRO >C10-C28*	<10.0	10.0	09/12/2019	ND	198	99.0	200	7.79	
EXT DRO >C28-C36	<10.0	10.0	09/12/2019	ND					
Surrogate: 1-Chlorooctane	92.8	% 41-142	!						
Surrogate: 1-Chlorooctadecane	101	% 37.6-14	7						

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND	Analyte NOT DETECTED at or above the reporting fimit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
Q.	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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Colony I trans

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

Corrected

3.75

Sample Condition Cool Intact Tes Tes

CHECKED BY: (Initials)



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	DOTAL CONNECTION		BILL 10	ANALTOIS KEQUESI	10 10 10 10 N
Project Manager:	Bruce		P.O. #:		
Address:			Company:		
city:	State:	Zip:	Attn:		
Phone #:	Tax 非:		Address:		
Project #:	Project Owner:		City:		
Project Name: Makyall 3	Marsial B and		State: Zip:		
Project Location	Project Location: Marshall 13 05 12		Phone #:		
Sampler Name:	-		fax#:		
FOR LAB USE ONLY		MATRIX	PRESERV! SAMPLING		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMI # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER: DATE	EXT. TPH BTEX	
-	(2014, 25. 2012.ds				
7	2012 1:501- SALES 2-45			V V V	
J.	102 bhr. C2 T. 318 45			\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	
ナ	P-303-103,154953			< < <	
5	105-0		<	< < <	
6	5-20g		9/11/19		
PLEASE NOTE: Lisolay and mathyan, Al claims including	PLEASE HOTE. Liability and Danniges. Contracts landsky and cleant's escharce remark for any cleam entang whether based in contract as lart, shall be limited to the amount peed by the cleant for the explicable cashings. All cleans encoding those for nephysions and any other cleans must be possible.	for any claim arising whether based in contract is the deemed waved unless made in writing and	artert, shall be limited to the amount peed by the cli received by Candrad within 30 days wher complete	and for the applicable	

Relinquished By: Date: Time: 61-11-to Received By: Phone Result:
Fax Result:
REMARKS: ☐ Yes ☐ No Add'l Phone #:

Email to Bruce and JOAF

Received by OCD: 2/4/2020 2:19:20 PM



October 17, 2019

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: MARSHALL B 001

Enclosed are the results of analyses for samples received by the laboratory on 10/11/19 13:30.

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 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.

Celeg Li Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Fax To:

(575) 393-2432

Sampling Date:

10/11/2019

Received: Reported: 10/11/2019 10/17/2019

Sampling Type:

Soil

Project Name:

MARSHALL B 001

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Celey D. Keene

Project Location:

EUNICE, NM

Sample ID: B-1 32.449111 -103.154838 (H903466-01)

BTEX 80218	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2019	ND	1.91	95.5	2.00	1.84	
Toluene*	0.064	0.050	10/14/2019	ND	1.95	97.7	2.00	2.67	
Ethylbenzene*	<0.050	0.050	10/14/2019	ND	1.94	97.1	2.00	2.36	
Total Xylenes*	< 0.150	0.150	10/14/2019	ND	5.84	97.3	6.00	2.20	
Total BTEX	<0.300	0.300	10/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	97.65	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/15/2019	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	10/11/2019	ND	218	109	200	12.9	
DRO >C10-C28*	<10.0	10.0	10/11/2019	ND	212	106	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	10/11/2019	ND					
Surrogate: 1-Chlorooctane	94.9	% 41-142							
Surrogate: 1-Chlorooctadecane	111 9	6 37.6-14	7						

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

10/11/2019

Reported: Project Name:

10/17/2019 MARSHALL B 001 NONE GIVEN

Project Number: Project Location:

EUNICE, NM

Sampling Date:

Sampling Type: Soil

Sampling Condition: Sample Received By: Cool & Intact

10/11/2019

Celey D. Keene

Sample ID: B-2 32.449118 -103.154912 (H903466-02)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2019	ND	1,91	95.5	2.00	1.84	
Toluene*	<0.050	0.050	10/14/2019	ND	1.95	97.7	2.00	2.67	
Ethylbenzene*	<0.050	0.050	10/14/2019	ND	1.94	97.1	2.00	2.36	
Total Xylenes*	<0.150	0.150	10/14/2019	ND	5.84	97.3	6.00	2.20	
Total BTEX	<0.300	0.300	10/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	112 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/15/2019	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	10/11/2019	ND	218	109	200	12.9	
DRO >C10-C28*	10.4	10.0	10/11/2019	ND	212	106	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	10/11/2019	ND					
Surrogate: 1-Chlorooctane	95,2	% 41-142							
Surrogate: 1-Chlorooctadecane	103	% 37.6-14	7						

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

10/11/2019

Reported:

10/17/2019

Project Name: Project Number: MARSHALL B 001 **NONE GIVEN**

Project Location:

EUNICE, NM

Sampling Date:

10/11/2019 Sampling Type: Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: B-3 32.449109 -103.154952 (H903466-03)

BTEX 8021B	mg,	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2019	ND	1.91	95.5	2.00	1.84	
Toluene*	<0.050	0.050	10/14/2019	ND	1.95	97.7	2.00	2.67	
Ethylbenzene*	<0.050	0.050	10/14/2019	ND	1.94	97.1	2.00	2.36	
Total Xylenes*	<0.150	0.150	10/14/2019	ND	5.84	97.3	6.00	2.20	
Total BTEX	<0.300	0.300	10/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	97.5	% 73.3-12	9					and the second second second	
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/15/2019	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	10/11/2019	ND	218	109	200	12.9	
DRO >C10-C28*	69.3	10.0	10/11/2019	ND	212	106	200	10.3	
EXT DRO >C28-C36	18.1	10.0	10/11/2019	ND					
Surrogate: 1-Chlorooctane	96.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	108	% 37.6-14	7						

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be limited in the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within thirty [30] days after completion of the applicable service. In no event shall Cardinal be Bable for incidental or consequenced canages, including, without familiation, business interruptions, loss of use, or toss of profits incurred by client, its subsidiance, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

10/11/2019

Reported: Project Name: 10/17/2019 MARSHALL B 001

Project Number: Project Location: NONE GIVEN EUNICE, NM

Sampling Date:

Soil

Sampling Type: Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

10/11/2019

Sample ID: B-4 32.449167 -103.154936 (H903466-04)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2019	ND	1.91	95.5	2.00	1.84	
Toluene*	<0.050	0.050	10/14/2019	ND	1.95	97.7	2.00	2.67	
Ethylbenzene*	<0.050	0.050	10/14/2019	ND	1.94	97.1	2.00	2.36	
Total Xylenes*	<0.150	0.150	10/14/2019	ND	5.84	97.3	6.00	2.20	
Total BTEX	<0.300	0.300	10/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	97.0 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/15/2019	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	10/11/2019	ND	218	109	200	12.9	
DRO >C10-C28*	521	10.0	10/11/2019	ND	212	106	200	10.3	
EXT DRO >C28-C36	143	10.0	10/11/2019	ND					
Surrogate: 1-Chlorooctane	90.9	% 41-142							
Surrogate: 1-Chlorooctadecane	120 9	37.6-14	7						

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

10/11/2019 10/17/2019

Reported: Project Name:

MARSHALL B 001 NONE GIVEN

Project Number: Project Location:

EUNICE, NM

Sampling Date:

10/11/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: B-5 32.449152 -103.154928 (H903466-05)

BTEX 80218	mg,	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2019	ND	1.91	95.5	2.00	1.84	
Toluene*	<0.050	0.050	10/14/2019	ND	1.95	97.7	2.00	2.67	
Ethylbenzene*	<0.050	0.050	10/14/2019	ND	1.94	97.1	2.00	2.36	
Total Xylenes*	<0.150	0.150	10/14/2019	ND	5.84	97.3	6.00	2.20	
Total BTEX	<0.300	0.300	10/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	96.4	% 73 3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/15/2019	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	10/11/2019	ND	218	109	200	12.9	
DRO >C10-C28*	57.8	10.0	10/11/2019	ND	212	106	200	10.3	
EXT DRO >C28-C36	23.4	10.0	10/11/2019	ND					
Surrogate: 1-Chlorooctane	95.9	% 41-142	1						
Surrogate 1-Chlorooctadecane	104	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

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

Fax To:

: (575) 393-2432

Received:

10/11/2019 10/17/2019

Reported: Project Name:

MARSHALL B 001 NONE GIVEN

Project Number: Project Location:

EUNICE, NM

Sampling Date:

Sampling Type:

10/11/2019 Soil

ng Type:

2011

Sampling Condition: Sample Received By: Cool & Intact Celey D. Keene

Sample ID: B-6 @ 1 32.449098 -103.154971 (H903466-06)

BTEX 8021B	mg/	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2019	ND	1.91	95.5	2.00	1.84	
Toluene*	<0.050	0.050	10/14/2019	ND	1.95	97.7	2.00	2.67	
Ethylbenzene*	<0.050	0.050	10/14/2019	ND	1.94	97.1	2.00	2.36	
Total Xylenes*	< 0.150	0.150	10/14/2019	ND	5.84	97.3	6.00	2.20	
Total BTEX	<0.300	0.300	10/14/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	96.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/15/2019	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	10/11/2019	ND	218	109	200	12.9	
DRO >C10-C28*	54.7	10.0	10/11/2019	ND	212	106	200	10.3	
EXT DRO >C28-C36	12.2	10.0	10/11/2019	ND					
Surrogate 1-Chlorooctane	99.4	% 41-142	•						
Surrogate: 1-Chlorooctadecane	109	% 37.6-14	7						

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

10/11/2019 10/17/2019

Reported: Project Name:

MARSHALL B 001 NONE GIVEN

Project Number: Project Location:

EUNICE, NM

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By:

10/11/2019

Soil

Cool & Intact Celey D. Keene

Sample ID: B-7 @ 1 32.449113 -103.154980 (H903466-07)

BTEX 8021B	mg/	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2019	ND	1.94	96.9	2.00	2.55	
Toluene*	<0.050	0.050	10/15/2019	ND	1.95	97.3	2.00	1.46	
Ethylbenzene*	<0.050	0.050	10/15/2019	ND	1.96	98.1	2.00	1.60	
Total Xylenes*	<0.150	0.150	10/15/2019	ND	5.89	98.1	6.00	1.61	
Total BTEX	<0.300	0.300	10/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	97.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/15/2019	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	10/11/2019	ND	218	109	200	12.9	
DRO >C10-C28*	131	10.0	10/11/2019	ND	212	106	200	10.3	
EXT DRO >C28-C36	31.4	10.0	10/11/2019	ND					
Surrogate: 1-Chlorooctane	93.4	% 41-14:	?						
Surrogate 1-Chlorooctadecane	107	% 37.6-1-	17						

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Analytical Results For:

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

Received:

10/11/2019

Reported:

10/17/2019

Project Name: Project Number: MARSHALL B 001 NONE GIVEN

Project Location:

EUNICE, NM

Sampling Date:

10/11/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: B-8 @ 1 32.449145 -103.154968 (H903466-08)

BTEX 8021B	mg/	kg	Analyze	d By: BF					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2019	ND	1.94	96.9	2.00	2.55	
Toluene*	<0.050	0.050	10/15/2019	ND	1.95	97.3	2.00	1.46	
Ethylbenzene*	<0.050	0.050	10/15/2019	ND	1.96	98.1	2.00	1.60	
Total Xylenes*	< 0.150	0.150	10/15/2019	ND	5.89	98.1	6.00	1.61	
Total BTEX	<0.300	0.300	10/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	131	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/15/2019	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	10/11/2019	ND	218	109	200	12.9	
DRO >C10-C28*	139	10.0	10/11/2019	ND	212	106	200	10,3	
EXT DRO >C28-C36	27.9	10.0	10/11/2019	ND					
Surrogate: 1-Chlorooctane	85.5	% 41-142							-0-10-11
Surrogate 1-Chlorooctadecane	96.7	% 37.6-14	7						

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Analytical Results For:

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

Received: 10/11/2019 Reported: 10/17/2019

Project Name: MARSHALL B 001 Project Number: NONE GIVEN

Project Location: EUNICE, NM Sampling Date:

10/11/2019 Soil

Sampling Type:

Sampling Condition: Sample Received By: Cool & Intact Celey D. Keene

Sample ID: B-9 @ 1 32.449101 -103.155019 (H903466-09)

BTEX 8021B	mg/	'kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2019	ND	1.95	97.4	2.00	1.13	
Toluene*	<0.050	0.050	10/15/2019	ND	2.02	101	2.00	0.971	
Ethylbenzene*	<0.050	0.050	10/15/2019	ND	1.97	98.7	2.00	0.572	
Total Xylenes*	<0.150	0.150	10/15/2019	ND	6.04	101	6.00	1.42	
Total BTEX	<0.300	0.300	10/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	98.8	% 73 3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/15/2019	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	10/11/2019	ND	218	109	200	12.9	
DRO >C10-C28*	16.2	10.0	10/11/2019	ND	212	106	200	10.3	
EXT DRO >C28-C36	<10.0	10.0	10/11/2019	ND					
Surrogate: 1-Chlorooctane	93.9	% 41-142							10000
Surrogate: 1-Chlorooctadecane	101	% 37.6-14	7						

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Analytical Results For:

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

Fax To:

Received:

Reported:

Project Name:

Project Number:

Project Location:

10/11/2019

10/17/2019 MARSHALL B 001

NONE GIVEN **EUNICE, NM**

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: 10/11/2019

Soil

Cool & Intact

Celey D. Keene

Sample ID: B-10 @ 1 32.449123 -103.155017 (H903466-10)

BTEX 8021B		*		4 D D.					
D1EX 8021B	mg/	Kg	Anaiyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	10/15/2019	ND	1.95	97.4	2.00	1.13	
Toluene*	<0.050	0.050	10/15/2019	ND	2.02	101	2.00	0.971	
Ethylbenzene*	<0.050	0.050	10/15/2019	ND	1.97	98.7	2.00	0.572	
Total Xylenes*	<0.150	0.150	10/15/2019	ND	6.04	101	6.00	1.42	
Total BTEX	<0.300	0.300	10/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	100 9	% 73 3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/15/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					- <u>-</u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/14/2019	ND	210	105	200	2.10	
DRO >C10-C28*	117	10.0	10/14/2019	ND	213	106	200	1.03	
EXT DRO >C28-C36	20.5	10.0	10/14/2019	ND					
Surrogate: 1-Chlorooctane	108	% 41-142			- 3 3				
Surrogate: 1-Chlorooctadecane	1145	% 37.6-14	7						

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported:

10/11/2019 10/17/2019

Project Name:

MARSHALL B 001 NONE GIVEN

Project Number: Project Location:

EUNICE, NM

Sampling Date:

10/11/2019 Sampling Type: Soil

Sampling Condition:

Sample Received By:

Cool & Intact

Celey D. Keene

Sample ID: B-11 @ 1 32.449147 -103.155019 (H903466-11)

BTEX 8021B	mg/	'kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2019	ND	1.95	97.4	2.00	1.13	
Toluene*	<0.050	0.050	10/15/2019	ND	2.02	101	2.00	0.971	
Ethylbenzene*	<0.050	0.050	10/15/2019	ND	1.97	98.7	2.00	0.572	
Total Xylenes*	<0.150	0.150	10/15/2019	ND	6.04	101	6.00	1.42	
Total STEX	<0.300	0.300	10/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	99.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/15/2019	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	10/14/2019	ND	210	105	200	2.10	
DRO >C10-C28*	27.6	10.0	10/14/2019	ND	213	106	200	1.03	
EXT DRO >C28-C36	<10.0	10.0	10/14/2019	ND					
Surrogate: 1-Chlorooctane	110	% 41-142							
Surrogate 1-Chlorooctadecane	112	% 37.6-14	7						

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Analytical Results For:

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

Fax To: (575) 393-2432

Received:

10/11/2019

Reported:

10/17/2019 MARSHALL B 001

Project Name: Project Number:

NONE GIVEN

Project Location:

EUNICE, NM

Sampling Date:

10/11/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: B-12 @ 1 32.449109 -103.155047 (H903466-12)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2019	ND	1.95	97.4	2.00	1.13	
Toluene*	<0.050	0.050	10/15/2019	ND	2.02	101	2.00	0.971	
Ethylbenzene*	<0.050	0.050	10/15/2019	ND	1.97	98.7	2.00	0.572	
Total Xylenes*	<0.150	0.150	10/15/2019	ND	6.04	101	6.00	1.42	
Total BTEX	<0.300	0.300	10/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/15/2019	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	10/14/2019	ND	210	105	200	2.10	
DRO >C10-C28*	87.9	10.0	10/14/2019	ND	213	106	200	1.03	
EXT DRO >C28-C36	13.9	10.0	10/14/2019	ND					
Surrogate: 1-Chlorooctane	112	% 41-142							
Surrogate 1-Chlorooctadecane	120	% 37.6-14	7						

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received: Reported: 10/11/2019 10/17/2019

Project Name: Project Number: MARSHALL B 001 NONE GIVEN **EUNICE, NM**

Project Location:

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: 10/11/2019

Soil

Cool & Intact

Celey D. Keene

Sample ID: B-13 @ 1 32.449158 -103.155054 (H903466-13)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2019	ND	1.95	97.4	2.00	1.13	
Toluene*	<0.050	0.050	10/15/2019	ND	2.02	101	2.00	0.971	
Ethylbenzene*	<0.050	0.050	10/15/2019	ND	1.97	98.7	2.00	0.572	
Total Xylenes*	<0.150	0.150	10/15/2019	ND	6.04	101	6.00	1.42	
Total 8TEX	<0.300	0.300	10/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	97.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/15/2019	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	10/14/2019	ND	210	105	200	2.10	
DRO >C10-C28*	226	10.0	10/14/2019	ND	213	106	200	1.03	
EXT DRO >C28-C36	56.6	10.0	10/14/2019	ND					
Surrogate: 1-Chlorooctane	111 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	133 !	% 37.6-14	7						

Surrogate: 1-Chlorooctadecane

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

10/11/2019

Reported: Project Name:

10/17/2019 MARSHALL B 001

Project Number:

NONE GIVEN

Sampling Date: Sampling Type: Sampling Condition: 10/11/2019

Soil

Sample Received By:

Cool & Intact Celey D. Keene

Project Location:

EUNICE, NM

Sample ID: B-14 @ 1 32.449191 -103.155061 (H903466-14)

BTEX 8021B	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2019	ND	1.95	97.4	2.00	1.13	
Toluene*	<0.050	0.050	10/15/2019	ND	2.02	101	2.00	0.971	
Ethylbenzene*	<0.050	0.050	10/15/2019	ND	1.97	98.7	2.00	0.572	
Total Xylenes*	< 0.150	0.150	10/15/2019	ND	6.04	101	6.00	1.42	
Total BTEX	<0.300	0.300	10/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	99.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/15/2019	ND	416	104	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	10/14/2019	ND	210	105	200	2.10	
DRO >C10-C28*	21.8	10.0	10/14/2019	ND	213	106	200	1.03	
EXT DRO >C28-C36	<10.0	10.0	10/14/2019	ND					
Surrogate: 1-Chlorooctane	104	% 41-142	?						
Surrogate: 1-Chlorooctadecane	107	% 37.6-14	7						

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Analytical Results For:

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

Fax To:

Sampling Date:

Sampling Condition:

10/11/2019

Sampling Type:

Soil

Cool & Intact

Sample Received By:

Celey D. Keene

Project Number: Project Location:

Project Name:

Received:

Reported:

NONE GIVEN **EUNICE, NM**

10/11/2019

10/17/2019

MARSHALL B 001

Sample ID: B-15 @ 1 32.449105 -103.155080 (H903466-15)

BTEX 80218	mg,	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2019	ND	1.95	97.4	2.00	1.13	
Toluene*	<0.050	0.050	10/15/2019	ND	2.02	101	2.00	0.971	
Ethylbenzene*	<0.050	0.050	10/15/2019	ND	1.97	98.7	2.00	0.572	
Total Xylenes*	<0.150	0.150	10/15/2019	ND	6.04	101	6.00	1.42	
Total BTEX	<0.300	0.300	10/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	99.6	% 73 3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/15/2019	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	10/14/2019	ND	210	105	200	2.10	
DRO >C10-C28*	153	10.0	10/14/2019	ND	213	106	200	1.03	
EXT DRO >C28-C36	27.8	10.0	10/14/2019	ND					
Surrogate: 1-Chlorooctane	109	% 41-142							
Surrogate: 1-Chlorooctadecane	120	% 37.6-14	7						

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based in contract or tork, shell be limited to the amount paid by chent for analyses. All claims, including those for negligence and any other Cluse whatoever shall be deemed waved unless made in verting and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be fieldle for excitential or consequential damages, including, without familiation, business interruptions, loss of use, or loss of use, or loss of profits incurred by Clerchial, regardless of whether such

Colony treams



Analytical Results For:

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

Received:

10/11/2019

Reported:

10/17/2019

Project Name: Project Number: MARSHALL B 001 NONE GIVEN

Project Location:

EUNICE, NM

Sampling Date:

ng Date:

10/11/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: B-16 @ 1 32.449120 -103.155079 (H903466-16)

BTEX 80218	mg/	kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2019	ND	1.95	97.4	2.00	1.13	
Toluene*	<0.050	0.050	10/15/2019	ND	2.02	101	2.00	0.971	
Ethylbenzene*	<0.050	0.050	10/15/2019	ND	1.97	98.7	2.00	0.572	
Total Xylenes*	<0.150	0.150	10/15/2019	ND	6.04	101	6.00	1.42	
Total BTEX	<0.300	0.300	10/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	99.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/15/2019	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	10/14/2019	ND	210	105	200	2.10	
DRO >C10-C28*	37.2	10.0	10/14/2019	ND	213	106	200	1.03	
EXT DRO >C28-C36	<10.0	10.0	10/14/2019	ND					
Surrogate: 1-Chlorooctane	103	% 41-142	!			117 PP (11111) =			
Surrogate 1-Chlorooctadecane	107	37.6-14	7						

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Analytical Results For:

APACHE CORP - HOBBS

BRUCE BAKER

2350 W. MARLAND BLVD.

HOBBS NM, 88240

Fax To:

(575) 393-2432

Received:

10/11/2019

Reported: Project Name: 10/17/2019 MARSHALL B 001

Project Number: Project Location: **NONE GIVEN**

EUNICE, NM

Sampling Date:

10/11/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: B-17 @ 1 32.449130 -103.155121 (H903466-17)

BTEX 8021B	mg/	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2019	ND	1.95	97.4	2.00	1.13	
Toluene*	<0.050	0.050	10/15/2019	ND	2.02	101	2.00	0.971	
Ethylbenzene*	<0.050	0.050	10/15/2019	ND	1.97	98.7	2.00	0.572	
Total Xylenes*	<0.150	0.150	10/15/2019	ND	6.04	101	6.00	1.42	
Total BTEX	<0.300	0.300	10/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	98.8	% 73 3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/15/2019	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	10/14/2019	ND	210	105	200	2.10	
DRO >C10-C28*	106	10.0	10/14/2019	ND	213	106	200	1.03	
EXT DRO >C28-C36	14.8	10.0	10/14/2019	ND					
Surrogate: 1-Chlorooctane	90.5	% 41-142	N 12 824-1	- n N VA					
Surrogate: 1-Chlorooctadecane	97.9	% 37.6-14	7						

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any other cause whistoever shall be deemed waved unless made in writing and received by Cardinal within theiry (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 Chem, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether 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.

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Analytical Results For:

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

(575) 393-2432

Fax To:

Sampling Date:

10/11/2019

10/11/2019 10/17/2019

Sampling Type:

Soil

Project Name:

Received:

Reported:

MARSHALL B 001

Sampling Condition: Sample Received By: Cool & Intact Celey D. Keene

Project Number: Project Location: NONE GIVEN

EUNICE, NM

Sample ID: W-1 @ 1 32.449077 -103.155077 (H903466-18)

BTEX 8021B	mg,	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2019	ND	1.95	97.4	2.00	1.13	
Toluene*	<0.050	0.050	10/15/2019	ND	2.02	101	2.00	0.971	
Ethylbenzene*	<0.050	0.050	10/15/2019	ND	1.97	98.7	2.00	0.572	
Total Xylenes*	< 0.150	0.150	10/15/2019	ND	6.04	101	6.00	1.42	
Total BTEX	<0.300	0.300	10/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/15/2019	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	10/14/2019	ND	210	105	200	2.10	
DRO >C10-C28*	< 10.0	10.0	10/14/2019	ND	213	106	200	1.03	
EXT DRO >C28-C36	<10.0	10.0	10/14/2019	ND					
Surrogate: 1-Chlorooctane	94.6	% 41-142	?						
Surrogate 1-Chlorooctadecane	95.3	% 37.6-14	7						

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Analytical Results For:

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

(575) 393-2432

Fax To:

Received:

10/11/2019

Reported:

10/17/2019

Project Name: Project Number: MARSHALL B 001 NONE GIVEN

Project Location:

EUNICE, NM

Sampling Date:

ling Date:

10/11/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: W-2 @ 1 32.449074 -103.154881 (H903466-19)

BTEX 8021B	mg,	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2019	ND	1.95	97.4	2.00	1.13	
Toluene*	<0.050	0.050	10/15/2019	ND	2.02	101	2.00	0.971	
Ethylbenzene*	<0.050	0.050	10/15/2019	ND	1.97	98.7	2.00	0.572	
Total Xylenes*	<0.150	0.150	10/15/2019	ND	6.04	101	6.00	1.42	
Total BTEX	<0.300	0.300	10/15/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/15/2019	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	10/14/2019	ND	210	105	200	2.10	
DRO >C10-C28*	<10.0	10.0	10/14/2019	ND	213	106	200	1.03	
EXT DRO >C28-C36	<10.0	10.0	10/14/2019	ND					
Surrogate: 1-Chlorooctane	104	% 41-142							
Surrogate: 1-Chlorooctadecane	103	% 37.6-14	7						

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Notes and Definitions

5-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix Interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
•••	Insufficient time to reach temperature.
	Chloride by 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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October 29, 2019

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: MARSHALL B 001

Enclosed are the results of analyses for samples received by the laboratory on 10/23/19 14:30.

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.gov/field/ga/lab accredited 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.

Celeg D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

10/23/2019

Reported:

10/29/2019 MARSHALL B 001

Project Name: Project Number:

NONE GIVEN

Project Location:

EUNICE, NM

Sampling Date:

10/23/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: B- 4 @ 1.5" (H903629-01)

BTEX 8021B	mg/	kg	Analyze	d By: M\$					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	10/26/2019	ND	1.82	91.0	2.00	0.462	
Toluene*	<0.050	0.050	10/26/2019	ND	1.79	89.6	2.00	0.870	
Ethylbenzene*	<0.050	0.050	10/26/2019	ND	1.82	91.1	2.00	0.648	
Total Xylenes*	< 0.150	0.150	10/26/2019	ND	5.46	91.0	6.00	0.983	
Total BTEX	<0.300	0.300	10/26/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	97.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/25/2019	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2019	ND	211	106	200	2.35	
DRO >C10-C28*	<10.0	10.0	10/25/2019	ND	210	105	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	10/25/2019	ND					
Surrogate: 1-Chlorooctane	83.9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	82.5	% 37.6-14	7						

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

10/23/2019

Reported:

10/29/2019 MARSHALL B 001

Project Name: Project Number:

NONE GIVEN

84.1%

37.6-147

Project Location:

EUNICE, NM

Sampling Date:

10/23/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: B- 7 @ 1.5" (H903629-02)

TEX 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	10/26/2019	ND	1.82	91.0	2.00	0.462	
Toluene*	<0.050	0.050	10/26/2019	ND	1.79	89.6	2.00	0.870	
Ethylbenzene*	<0.050	0.050	10/26/2019	ND	1.82	91.1	2.00	0.648	
Total Xylenes*	<0.150	0.150	10/26/2019	ND	5.46	91.0	6.00	0.983	
Total BTEX	<0.300	0.300	10/26/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	98.1	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16,0	10/25/2019	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2019	ND	211	106	200	2.35	
DRO >C10-C28*	<10.0	10.0	10/25/2019	ND	210	105	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	10/25/2019	ND					
Surrogate: 1-Chlorooctane	85.6	% 41-142	?						
80									

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

Reported:

Project Name:

Project Number: Project Location: 10/29/2019 MARSHALL B 001

10/23/2019

NONE GIVEN EUNICE, NM

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By:

Cool & Intact

10/23/2019

Soil

Tamara Oldaker

Sample ID: B- 8 @ 1.5" (H903629-03)

ВТ	EX	8021B	

Analyzed	By:	MS
-----------------	-----	----

BILA BUZID	mg/ng		Alkalyze	Analyzed by. Pla					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/26/2019	ND	1.82	91.0	2.00	0.462	
Toluene*	<0.050	0.050	10/26/2019	ND	1.79	89.6	2.00	0.870	
Ethylbenzene*	< 0.050	0.050	10/26/2019	ND	1.82	91.1	2.00	0.648	
Total Xylenes*	<0.150	0.150	10/26/2019	ND	5.46	91.0	6.00	0.983	
Total BTEX	<0.300	0.300	10/26/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIC

98.5%

73.3-129

mg/	kç

Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	
10/25/2019	ND	400	100	400	3.92	

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/25/2019	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2019	ND	211	106	200	2.35	
DRO >C10-C28*	<10.0	10.0	10/25/2019	ND	210	105	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	10/25/2019	ND					

Analyzed By: AC

Surrogate: 1-Chlorooctane

82.4%

41-142

Surrogate: 1-Chlorooctadecane

81.1%

37.6-147

Cardinal Laboratories

Received by OCD: 2/4/2020 2:19:20 PM

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Chagi treens

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:

10/23/2019

Reported:

10/29/2019

Project Name: Project Number: MARSHALL B 001 NONE GIVEN

Project Location:

EUNICE, NM

Sampling Date:

10/23/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: B- 10 @ 1.5" (H903629-04)

BTEX 8021B	mg/	mg/kg		Analyzed By: M5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/26/2019	ND	1.82	91.0	2.00	0.462	
Toluene*	<0.050	0.050	10/26/2019	ND	1.79	89.6	2.00	0.870	
Ethylbenzene*	<0.050	0.050	10/26/2019	ND	1.82	91.1	2.00	0.648	
Total Xylenes*	<0.150	0.150	10/26/2019	ND	5.46	91.0	6.00	0.983	
Total BTEX	<0.300	0.300	10/26/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIL

97.5%

73.3-129

Chloride, SM4500CI-B	mg,	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/25/2019	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyzed By: MS				<u>.</u> .		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2019	ND	211	106	200	2.35	
DRO >C10-C28*	<10.0	10.0	10/25/2019	ND	210	105	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	10/25/2019	ND					

Surrogate: 1-Chlorooctane

80.1%

41-142

Surrogate 1-Chlorooctadecane

80.3 %

37.6-147

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Change trees



Analytical Results For:

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

Fax To:

): (575) 393-2432

Received:

10/23/2019

Reported:

10/29/2019

Project Name: Project Number: MARSHALL B 001 NONE GIVEN

Project Location:

EUNICE, NM

Sampling Date:

Date: 10/23/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By:

Cool & Intact

Tamara Oldaker

Sample ID: B- 12 @ 1.6" (H903629-05)

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	10/26/2019	ND	1.82	91.0	2.00	0.462	
Toluene*	<0.050	0.050	10/26/2019	ND	1.79	89.6	2.00	0.870	
Ethylbenzene*	<0.050	0.050	10/26/2019	ND	1.82	91.1	2.00	0.648	
Total Xylenes*	<0.150	0.150	10/26/2019	ND	5.46	91.0	6.00	0.983	
Total BTEX	<0.300	0.300	10/26/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	97.4	% 73 3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/25/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2019	ND	211	106	200	2.35	
DRO >C10-C28*	<10.0	10.0	10/25/2019	ND	210	105	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	10/25/2019	ND					
Surrogate: 1-Chlorooctane	81.2	% 41-142							
Surrogate 1-Chlorooctadecane	78.7	% 37.6-14	7						

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Colory treens



Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

10/23/2019

Reported:

10/29/2019 MARSHALL B 001

Project Name: Project Number:

NONE GIVEN

Project Location:

EUNICE, NM

Sampling Date:

10/23/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: B- 13 @ 1.6" (H903629-06)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/26/2019	ND	1.82	91.0	2.00	0.462	
Toluene*	<0.050	0.050	10/26/2019	ND	1.79	89.6	2.00	0.870	
Ethylbenzene*	<0.050	0.050	10/26/2019	ND	1.82	91.1	2.00	0.648	
Total Xylenes*	<0.150	0.150	10/26/2019	ND	5.46	91.0	6.00	0.983	
Total BTEX	<0.300	0.300	10/26/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	98.6	% 73 3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/25/2019	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2019	ND	211	106	200	2.35	
DRO >C10-C28*	<10.0	10.0	10/25/2019	ND	210	105	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	10/25/2019	ND					
Surrogate: 1-Chlorooctane	80.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	78.0	% 37.6-14	7						

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

10/23/2019

Reported: Project Name:

10/29/2019 MARSHALL B 001 NONE GIVEN

Project Number: Project Location:

EUNICE, NM

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

10/23/2019

Soil

Cool & Intact Tamara Oldaker

Sample ID: B- 15 @ 1.6" (H903629-07)

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	10/26/2019	ND	1.82	91.0	2.00	0.462	
Toluene*	<0.050	0.050	10/26/2019	ND	1.79	89.6	2.00	0.870	
Ethylbenzene*	<0.050	0.050	10/26/2019	ND	1.82	91.1	2.00	0.648	
Total Xylenes*	<0.150	0.150	10/26/2019	ND	5.46	91.0	6.00	0.983	
Total BTEX	<0.300	0.300	10/26/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	97.9	% 73 3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/25/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	B5	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2019	ND	211	106	200	2.35	
DRO >C10-C28*	<10.0	10.0	10/25/2019	ND	210	105	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	10/25/2019	ND					
Surrogate: 1-Chlorooctane	82.9	% 41-142	?						

Surrogate: 1-Chlorooctane 80.5 % 37.6-147 Surrogate: 1-Chlorooctadecane

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based in contract or tort, shell be limited to the amount paid by client for analysiss. All claims, including those for negligence and any other cause whatsoever shall be deemed waved 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 subsidiance, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such

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Analytical Results For:

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

Fax To: (575) 393-2432

Received:

10/23/2019

Reported: Project Name:

10/29/2019 MARSHALL B 001

Project Number: Project Location:

NONE GIVEN EUNICE, NM

Sampling Date:

10/23/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: B- 17 @ 1.6" (H903629-08)

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	10/26/2019	ND	1.82	91.0	2.00	0.462	
Toluene*	<0.050	0.050	10/26/2019	ND	1.79	89.6	2.00	0.870	
Ethylbenzene*	< 0.050	0.050	10/26/2019	ND	1.82	91.1	2.00	0.648	
Total Xylenes*	< 0.150	0.150	10/26/2019	ND	5.46	91.0	6.00	0.983	
Total BTEX	<0.300	0.300	10/26/2019	ND					

Surrogate	4-Bromofluorobenzene	(PIL	98.19
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73.3-129

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/25/2019	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/25/2019	ND	211	106	200	2.35	
DRO >C10-C28*	<10.0	10.0	10/25/2019	ND	210	105	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	10/25/2019	ND					

Surrogate: 1-Chlorooctane

80.9 %

41-142

Surrogate: 1-Chlorooctadecane

79.9%

37.6-147

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Analytical Results For:

APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD.

HOBBS NM, 88240

Fax To:

(575) 393-2432

Received:

10/23/2019

Reported:

10/29/2019

Project Name: Project Number: MARSHALL B 001 NONE GIVEN

Project Location:

EUNICE, NM

Sampling Date:

10/23/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: B- 18 @ .6" (H903629-09)

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	10/26/2019	ND	1.82	91.0	2.00	0.462	
Toluene*	<0.050	0.050	10/26/2019	ND	1.79	89.6	2.00	0.870	
Ethylbenzene*	0.243	0.050	10/26/2019	ND	1.82	91.1	2.00	0.648	
Total Xylenes*	0.911	0.150	10/26/2019	ND	5.46	91.0	6.00	0.983	
Total BTEX	1.15	0.300	10/26/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	125	% 73 3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/25/2019	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS			1		S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	56.4	50.0	10/25/2019	ND	211	106	200	2.35	
DRO >C10-C28*	5300	50.0	10/25/2019	ND	210	105	200	2.02	
EXT DRO >C28-C36	1110	50.0	10/25/2019	ND					
Surrogate: 1-Chlorooctane	99.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	223	% 37.6-14	7						

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

10/23/2019

Reported:

10/29/2019

Project Name: Project Number: MARSHALL B 001 NONE GIVEN

Project Location:

EUNICE, NM

Sampling Date:

10/23/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: B- 19 @ .6" (H903629-10)

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	10/29/2019	ND	1.87	93.3	2.00	1.68	
Toluene*	0.956	0.100	10/29/2019	ND	1.87	93.4	2.00	0.957	
Ethylbenzene*	2.09	0.100	10/29/2019	ND	1.89	94.4	2.00	0.129	
Total Xylenes*	7.78	0.300	10/29/2019	ND	5.65	94.2	6.00	0.0742	
Total BTEX	10.8	0.600	10/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	154	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/28/2019	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	225	50.0	10/25/2019	ND	211	106	200	2.35	
DRO >C10-C28*	7450	50.0	10/25/2019	ND	210	105	200	2.02	
EXT DRO >C28-C36	1460	50.0	10/25/2019	ND					
Surrogate: 1-Chlorooctane	112	% 41-142							
Surrogate: 1-Chlorooctadecane	270	% 37.6-14	7						

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

10/23/2019

Reported: Project Name: 10/29/2019 MARSHALL B 001

Project Number: Project Location:

NONE GIVEN

EUNICE, NM

Sampling Date:

10/23/2019

Sampling Type:

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Soil

Sample ID: B- 20 @ .6" (H903629-11)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/29/2019	ND	1.87	93.3	2.00	1.68	
Toluene*	1.26	0.200	10/29/2019	ND	1.87	93.4	2.00	0.957	
Ethylbenzene*	2.46	0.200	10/29/2019	ND	1.89	94.4	2.00	0.129	
Total Xylenes*	9.93	0.600	10/29/2019	ND	5.65	94.2	6.00	0.0742	
Total BTEX	13.7	1.20	10/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	138	% 73 3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	10/28/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: M5					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	407	50.0	10/26/2019	ND	211	106	200	2.35	
DRO >C10-C28*	12200	50.0	10/26/2019	ND	210	105	200	2.02	
EXT DRO >C28-C36	2860	50.0	10/26/2019	ND					
Surrogate: 1-Chlorooctane	124	% 41-1-12				1.0			
Surrogate 1-Chlorooctadecane	398	% 37.6-14	7						

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

10/23/2019

Reported:

10/29/2019 MARSHALL B 001

Project Name: Project Number:

NONE GIVEN

Project Number: Project Location:

EUNICE, NM

Sampling Date:

10/23/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: B- 21 @ .6" (H903629-12)

BTEX 8021B	mg/	kg	Analyze	d By: MS					5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	10/29/2019	ND	1.87	93.3	2.00	1.68	
Toluene*	0.340	0.100	10/29/2019	ND	1.87	93.4	2.00	0.957	
Ethylbenzene*	1.01	0.100	10/29/2019	ND	1.89	94.4	2.00	0.129	
Total Xylenes*	3.34	0.300	10/29/2019	ND	5.65	94.2	6.00	0.0742	
Total BTEX	4.69	0.600	10/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	147 9	% 73 3-12	9						
Chloride, 5M4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	10/28/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					5-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	212	50.0	10/26/2019	ND	211	106	200	2.35	
DRO >C10-C28*	11400	50.0	10/26/2019	ND	210	105	200	2.02	
EXT DRO >C28-C36	2730	50.0	10/26/2019	ND					
Surrogate: 1-Chlorooctane	1149	Va 41-142							
Surrogate: 1-Chlorooctadecane	367	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

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

Received:

10/23/2019

Reported:

10/29/2019

Project Name:

MARSHALL B 001 NONE GIVEN

Project Number: Project Location:

EUNICE, NM

Sampling Date:

10/23/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: B- 22 @ .6" (H903629-13)

BTEX 80218	mg/	kg	Analyze	d By: MS					5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	10/29/2019	ND	1.87	93.3	2.00	1.68	
Toluene*	0.787	0.100	10/29/2019	ND	1.87	93.4	2.00	0.957	
Ethylbenzene*	1.58	0.100	10/29/2019	ND	1.89	94.4	2.00	0.129	
Total Xylenes*	4.78	0.300	10/29/2019	ND	5.65	94.2	6.00	0.0742	
Total BTEX	7.14	0.600	10/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	156	% 73 3-12	9						
Chloride, SM4500C1-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/28/2019	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	248	50.0	10/26/2019	ND	211	106	200	2.35	
DRO >C10-C28*	7600	50.0	10/26/2019	ND	210	105	200	2.02	
EXT DRO >C28-C36	1600	50.0	10/26/2019	ND					
Surrogate: 1-Chlorooctane	112	% 41-142	4						
Surrogate: 1-Chlorooctadecane	245	% 37.6-14	7						

Cardinal Laboratories

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Analytical Results For:

APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD.

HOBBS NM, 88240

Fax To:

(575) 393-2432

Received:

10/23/2019

Reported: Project Name: 10/29/2019 MARSHALL B 001

Project Number:

NONE GIVEN

Project Location:

EUNICE, NM

Sampling Date:

10/23/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: W- 3 @ .6" (H903629-14)

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	10/29/2019	ND	1.87	93.3	2.00	1.68	
Toluene*	<0.050	0.050	10/29/2019	ND	1.87	93.4	2.00	0.957	
Ethylbenzene*	<0.050	0.050	10/29/2019	ND	1.89	94.4	2.00	0.129	
Total Xylenes*	<0.150	0.150	10/29/2019	ND	5.65	94.2	6.00	0.0742	
Total BTEX	<0.300	0.300	10/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	107	% 73 3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/28/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	10/26/2019	ND	223	111	200	4.51	
DRO >C10-C28*	5230	50.0	10/26/2019	ND	216	108	200	6.19	QR-03
EXT DRO >C28-C36	1210	50.0	10/26/2019	ND					
Surrogate, 1-Chlorooctane	81.4	% 41-142							
Surrogate: 1-Chlorooctadecane	236	% 37.6-14	7						

Cardinal Laboratories

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Analytical Results For:

APACHE CORP - HOBBS **BRUCE BAKER** 2350 W. MARLAND BLVD.

HOBBS NM, 88240

Fax To:

(575) 393-2432

Received:

10/23/2019

Reported:

10/29/2019 MARSHALL B 001

Project Name: Project Number:

NONE GIVEN

Project Location:

EUNICE, NM

Sampling Date:

10/23/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: W- 4 @ .6" (H903629-15)

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	10/29/2019	ND	1.87	93.3	2.00	1.68	
Toluene*	<0.050	0.050	10/29/2019	ND	1.87	93.4	2.00	0.957	
Ethylbenzene*	<0.050	0.050	10/29/2019	ND	1.89	94.4	2.00	0.129	
Total Xylenes*	<0.150	0.150	10/29/2019	ND	5.65	94.2	6.00	0.0742	
Total BTEX	<0.300	0.300	10/29/2019	MD					
Surrogate 4-Bromofluorobenzene (PIC	100	% 73 3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/28/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10,0	10/26/2019	ND	223	111	200	4.51	
DRO >C10-C28*	5370	10.0	10/26/2019	ND	216	108	200	6.19	

41-142 79.7% Surrogate: 1-Chlorooctane 235 % Surrogate: 1-Chlorooctadecane 37.6-147

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Analytical Results For:

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

Fax To:

(575) 393-2432

Received:

10/23/2019

Reported:

10/29/2019 MARSHALL B 001

Project Name: Project Number:

NONE GIVEN

Project Location:

EUNICE, NM

Sampling Date:

10/23/2019

Sampling Type:

5oil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: W- 5 @ .6" (H903629-16)

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	10/29/2019	ND	1.87	93.3	2.00	1.68	
Toluene*	<0.050	0.050	10/29/2019	ND	1.87	93.4	2.00	0.957	
Ethylbenzene*	<0.050	0.050	10/29/2019	ND	1.89	94.4	2.00	0.129	
Total Xylenes*	<0.150	0.150	10/29/2019	ND	5.65	94.2	6.00	0.0742	
Total BTEX	<0.300	0.300	10/29/2019	ND					

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC
Surrogale: 4-Bromofluorobenzene (PIL)	124%	/3.3-129	

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/28/2019	ND	400	100	400	3,92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					5-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	10/26/2019	ND	223	111	200	4.51	
DRO >C10-C28*	16600	50.0	10/26/2019	ND	216	108	200	6.19	
EXT DRO >C28-C36	3800	50.0	10/26/2019	ND					

Surrogate: 1-Chlorooctane 97.3 % 41-142 Surrogate: 1-Chlorooctadecane 542 % 37.6-147

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Analytical Results For:

APACHE CORP - HOBBS

BRUCE BAKER

2350 W. MARLAND BLVD.

HOBBS NM, 88240

Fax To: (575) 393-2432

Received:

10/23/2019

Reported:

10/29/2019

Project Name: Project Number: MARSHALL B 001 NONE GIVEN

Project Location:

EUNICE, NM

Sampling Date:

10/23/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: W- 6 @ .6" (H903629-17)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/29/2019	ND	1.87	93.3	2.00	1.68	
Toluene*	<0.050	0.050	10/29/2019	ND	1.87	93.4	2.00	0.957	
Ethylbenzene*	<0.050	0.050	10/29/2019	ND	1.89	94.4	2.00	0.129	
Total Xylenes*	<0.150	0.150	10/29/2019	ND	5.65	94.2	6.00	0.0742	
Total BTEX	<0.300	0.300	10/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	106	% 73.3-12	9						
Chloride, 5M4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/28/2019	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	10/26/2019	ND	223	111	200	4.51	
DRO >C10-C28*	6420	50.0	10/26/2019	ND	216	108	200	6.19	
EXT DRO >C28-C36	1450	50.0	10/26/2019	ND					
Surrogate 1-Chlorooctane	89.2	% 41-142	?						
Surrogate 1-Chlorooctadecane	277	% 37.6-14	7						

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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Colog 2 Kinne

Relinquished By:

Date: Received By:

FINANCE: Bon @ Trinity oil field Services

Dale: Regived By:

Sampler - UPS - Bus - Other:

Corrected Temp. °C 3.7 Observed Temp. "C 3.3

Sample Condition
Cool Intact
Tes Tres
No No

CHECKED BY: (Initials) 0

Turnaround Time:

Standard G

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

Yes Yes
No Corrected Temp. °C

Thermometer ID #97
Correction Factor + 0.4 °C

Time:

Delivered By: (Circle One)



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Project Manager: The Panal Daily 2 Km			
Sect Division + 150 C	P.O. #		
Address:	Company:		
City: State: Zip:	p: Attrn:		
Phone #: Fax #:	Address:		
Project #: Project Owner:	City:		
Project Name: Marshall 3	State: Zip:		
Project Location: Funice, NA	Phone #:		
Sampler Name: Daniel Rasley	Fax #:		
	MATRIX PRESERV.	SAMPLING	
	ERS /ATER TER	TPH	
Sample I.U.	ONTAIN OUNDV STEWA	L EXT:	
R-4@ 15"	# C C C C C C C C C C C C C C C C C C C	8:5	
2 3-7@1.5"		1:33	
3 B-801.5"		1:35	
4 13-10@1.51		1:37	
5 13-12 @ 1.6"		1:40 V/V	
10 B-13 @1.6"		1:42	
7 3-150).6"	-	1:48 111	
8 370 :"	16/23/	10/23/19 1750 V V	

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

B/LL TO	ANALYSIS REQUEST
Project Manager: Jeff 13/2004 Brue 13aller P.O. #:	
Company:	
Zip: Attn:	
Address:	
City:	
State: Zip:	
Phone #:	
Fax #:	
MATRIX PRESERV SAMPLING	
VATER NTER	H
# CONT/ GROUNI WASTEV SOIL OIL SLUDGE OTHER ACID/BA	CL
	0 4 4 4
, A' 12:22	
12:2	4 1 1 1
12:21	
/2:3	
12:3	
2.	
4 i2:3	
	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: PRESERV. ACID/BASE: PRESERV. OTHER: DATE DATE ### BILL TO

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Relinquished By:	Relipquished By:
Observed Temp. °C 3.3 Sample Condition CHECKED BY: Cool Intact (Initials) Corrected Temp. °C 3.7 Pes Pres No No No	Date: Received By:	1 Pate: 19 Received By: 11mg: 130 Munara Malakyr
Turnaround Time: Standard A Bacteria (only) Sample Condition Cool Intact Observed Temp. *C Thermometer ID #97 Correction Factor +0.4 *C Correction Factor +0.4 *C No No Corrected Temp. *C	Email to Bene Trinity oil field services can	Verbal Result: ☐ Yes ☐ No ☐ Add'! Phone #: All Results are emailed. Please provide Email address:

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



