

Closure Report

August 4, 2020

Re: Shell GA State # 2 API# 30-025-06131 Case # 1RP-5203

Background:

On September 17, 2018 Apache personal discovered an illegal dumping of produced water at the Shell GA State #2 plug and abandon well. An initial C-141 was submitted to NMOCD and approved on September 25, 2018. The release area is located south of Monument, New Mexico (GPS Coordinates 32.56681 -103.26402) in unit letter M section 16 Township 20S Range 37E. A search radius of 2000 meters for groundwater wells was conducted utilizing data from the NMOSE web page. The average depth to groundwater at the release site is 27 feet below ground surface.

The entire release area was excavated to a depth of one foot and the excavated material was placed on plastic. Field bottom and wall composite samples and field tested for chlorides. The field data suggest that the northern portion of the release were below table one standards for chlorides for releases less than 50 feet to groundwater. The southern portion of the release field data was above the table one standards. Six verticals in the southern portion of the release were conducted utilizing a backhoe collecting samples in one foot intervals. The samples were collected and field tested for chlorides. Those areas were excavated to a total depth of 3 to 5 feet deep were field analysis indicated chloride values below table one standards. The area on the lease road was scraped to depths of six inches to one foot. 924 yards of contaminated soil was hauled to a NMOCD approved disposal facility.

On February 18, 2020 final 5 point bottom and wall composite samples were collected not exceeding 200 square feet. All samples were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Laboratory results were above table one standards for releases less than 50 feet to groundwater at B6@ 1', B12@1', B16@3', B25@1', B36@1', B38@1', and W18. Those sample points were further excavated until laboratory analysis confirmed table one standards were met. All excavated material from those sample points was hauled to a NMOCD approved facility and the excavation was backfilled with clean imported top soil and contoured to the surrounding area. The disturbed area was seeded in accordance with the Revegetation and Noxious Weed Plan.

Apache Corporation has completed the remediation to below table one standards for releases less than 50 feet to groundwater and respectfully request that event # 1RP 5203 be closed.

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

Submitted by;

Bruce Baker

Environmental Technician larry.baker@apachecorp.com Cell# 432-631-6982 Off# 575-393-7106

District 1
1625 N French Dr. Hobbs, NM 88240
District II
811 S First St., Artesia, NM 88240
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

NOY1826848178					
1RP-5203					
pOY1826827902					

Release Notification

			Resp	onsible Party	у					
Responsible	Party Ap	ache Corporation)	OGRID	873					
Contact Nam	e B	ruce Baker		Contact Te	elephone 43	2-631-6982				
Contact emai	il lar	ry.baker@apac	hecorp.com	Incident #	(assigned by OCD)	NOY1826848178				
Contact mail										
			Location	of Release So	ource	11.00				
Latitude	32.5	6681		Longitude _		3.26402				
	(NAD 83 in decimal degrees to 5 decimal places)									
Site Name	Shell G/	A State # 2		Site Type	P&A well					
Date Release	Discovered	9/17/2018		API# (if app	licable) 30-025	5-06131				
Unit Letter	Section	Township	Range	Coun	itv					
		-								
M	16	205	37E	<u>Lea</u>						
Surface Owner	r: 🗹 State	☐ Federal ☐ Tr	ibal 🔲 Private (1	Vame:)				
				l Volume of I						
Crude Oil		(s) Released (Select al Volume Release		calculations or specific	Volume Recov	volumes provided below) /ered (bbls)				
Produced	Water	Volume Release	d (bbls) Unkno	NAIPA	Volume Recov	vered (bbls) 0 recovered				
		Is the concentrat	ion of dissolved c		☐ Yes ☐ No					
Condensa	ite	Volume Release			Volume Recov	vered (bbls)				
☐ Natural G	as	Volume Release	d (Mcf)		Volume Recov	vered (Mcf)				
Other (de	scribe)	Volume/Weight	Released (provide	e units)	Volume/Weigl	ht Recovered (provide units)				
Cause of Reliabandoned	ease : An u I well site.	naffiliated third	party truck cond	ducted an illegal	dump of produ	uced water at the plug and				

State of New Mexico Oil Conservation Division

Incident ID	NOY1826848178				
District RP	1RP-5203				
Facility ID					
Application ID	pOY1826827902				

Was this a major	If YES, for what reason(s) doe	es the responsible party consider this a major release?
elease as defined by 9.15.29.7(A) NMAC?		
	Unknown volume of release	ase
Yes 🗌 No		
•	•	nom? To whom? When and by what means (phone, email, etc)? swold and Olivia Yu were notified by Bruce Baker via email on 9/19/2018.
	I	nitial Response
The responsible	party must undertake the following action	ons immediately imless they could create a safety hazard that would result in injury
The source of the rel	ease has been stopped.	
The impacted area h	as been secured to protect human	n health and the environment.
Released materials h	ave been contained via the use o	f berms or dikes, absorbent pads, or other containment devices.
All free liquids and r	recoverable materials have been	removed and managed appropriately.
fall the actions describe	ed above have <u>not</u> been undertak	en, explain why:
By the time of discov	very there was no standing fluid	to be recovered or removed
by the time of discov	cry thore was no standing have	To be recovered or removed.
nas begun, please attach	a narrative of actions to date.	commence remediation immediately after discovery of a release. If remediation If remediation If remediation is successfully completed or if the release occurred NMAC), please attach all information needed for closure evaluation.
regulations all operators are public health or the environ failed to adequately investi	e required to report and/or file certai innent. The acceptance of a C-141 re gate and remediate contamination th	mplete to the best of my knowledge and understand that pursuant to OCD rules and in release notifications and perform corrective actions for releases which may endanger eport by the OCD does not relieve the operator of liability should their operations have not pose a threat to groundwater, surface water, human health or the environment. In e operator of responsibility for compliance with any other federal, state, or local laws
		Equirenmental Techniques Co
Printed Name: Bruc	ce Baker	Title: Environmental Technician Sr.
tilled / talle.		Title: P/25/18
Printed Name: Bruce Signature: Buce email: larry.bake	Rakes	THE.



State of New Mexico Oil Conservation Division

What is the shallowest depth to groundwater beneath the area affected by the release?

Incident ID	
District RP	
Facility ID	
Application ID	

27_(ft bgs)

Site Assessment/Characterization

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

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?								
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 1 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 vecontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics. Characterization Report Checklist: Each of the following items must be included in the report.	ertical extents of so							
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring we Field data	ells.							
Depth to water determination Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Photographs including date and GIS information								
TAINE DOLOGIADUS INCUMUNE GAIC AND COS INFORMATION								

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.



State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
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 thr 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: Bruce BAKEr Signature: Bruce Baker email: larry. baker@apackecorp.com	Title: <u>Environmental Tech SR.</u> Date: 12-17-18 Telephone: 432-631-6982
OCD Only Received by:	Date:

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Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following in	tems must be included in the closure report.							
✓ A scaled site and sampling diagram as described in 19.15.29.11 NMAC								
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)								
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)								
✓ Description of remediation activities								
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rer human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification to the O	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in							
Signature: Larry Baker email: larry.baker@apachecorp.com	Date: 4/3/2020							
email: larry.bakef@apachecorp.com	Telephone: 432-631-6982							
OCD Only								
Received by:	Date:							
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.							
Closure Approved by:	Date:							
Printed Name:	Title:							



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned,

C=the file is

closed) (quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

		POD Sub-		_	Q	_						[Depth (Depth W	ater
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	Х	Υ	Distance	Well	WaterCo	lumn
L 13490 POD1		L	LE	3	1	3	21	20S	37E	663365	3603321 🍪	1399	30		
L 14330 POD2		L	LE	1	1	4	20	208	37E	662187	3603507 🍪	1477	35	24	11
L 14330 POD3		L	LE	1	1	4	20	208	37E	662205	3603494 🍪	1477	35	24	11
L 14330 POD6		L	LE	1	1	4	20	20S	37E	662181	3603504 🌑	1482	45	24	21
L 14330 POD7		L	LE	1	1	4	20	20S	37E	662187	3603497 🍪	1485	45	24	21
L 14330 POD5		L	LE	1	1	4	20	20\$	37E	662173	3603503 🍪	1488	35	24	11
L 14330 POD4		L	LE	1	1	4	20	20\$	37E	662187	3603492 🍪	1489	35	24	11
<u>L 09590</u>		L	LE			4	08	20\$	37E	662440	3606491*	1908	70	35	35
L 09590	R	L	LE			4	80	208	37E	662440	3606491*	1908	70	35	35
L 09590 POD2		L	LE			4	08	208	37E	662440	3606491*	1908	66	30	36

Average Depth to Water:

27 feet

Minimum Depth: 24 feet Maximum Depth: 35 feet

Record Count: 10

UTMNAD83 Radius Search (in meters):

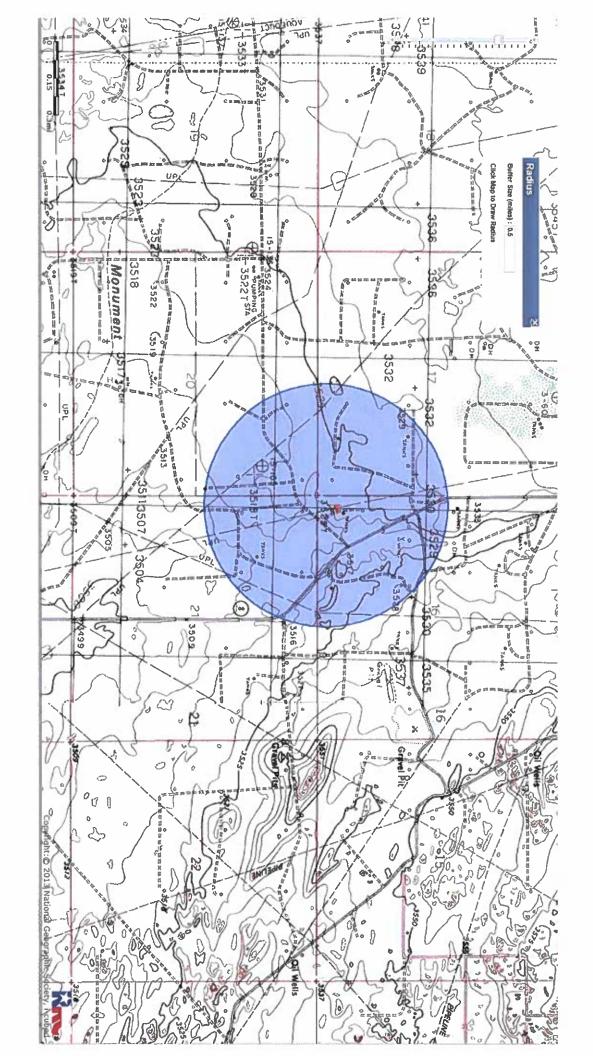
Easting (X): 663072 Northing (Y): 3604690 Radius: 2000

*UTM location was derived from PLSS - see Help

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

12/17/18 10:52 AM

WATER COLUMN/ AVERAGE **DEPTH TO WATER**

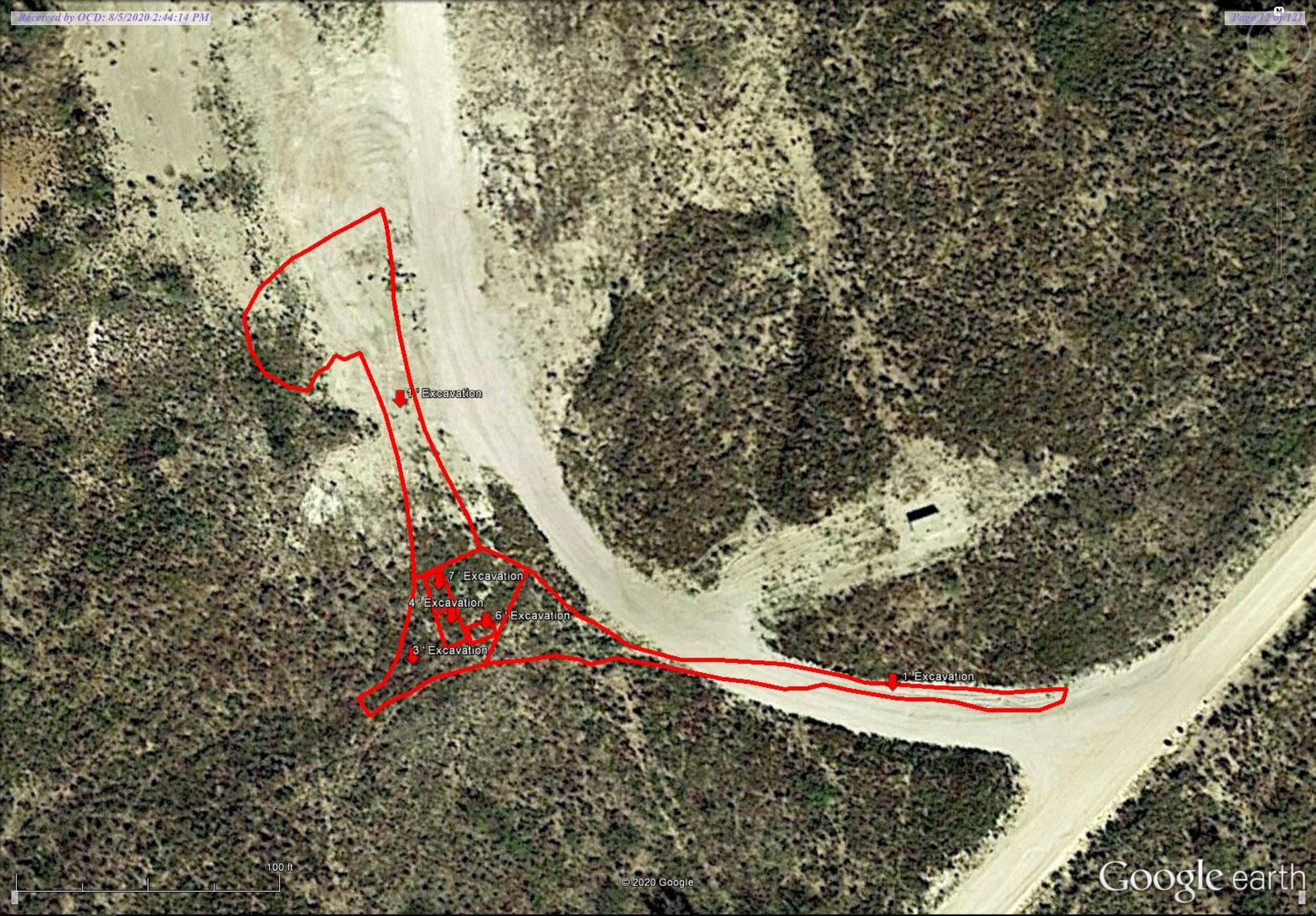


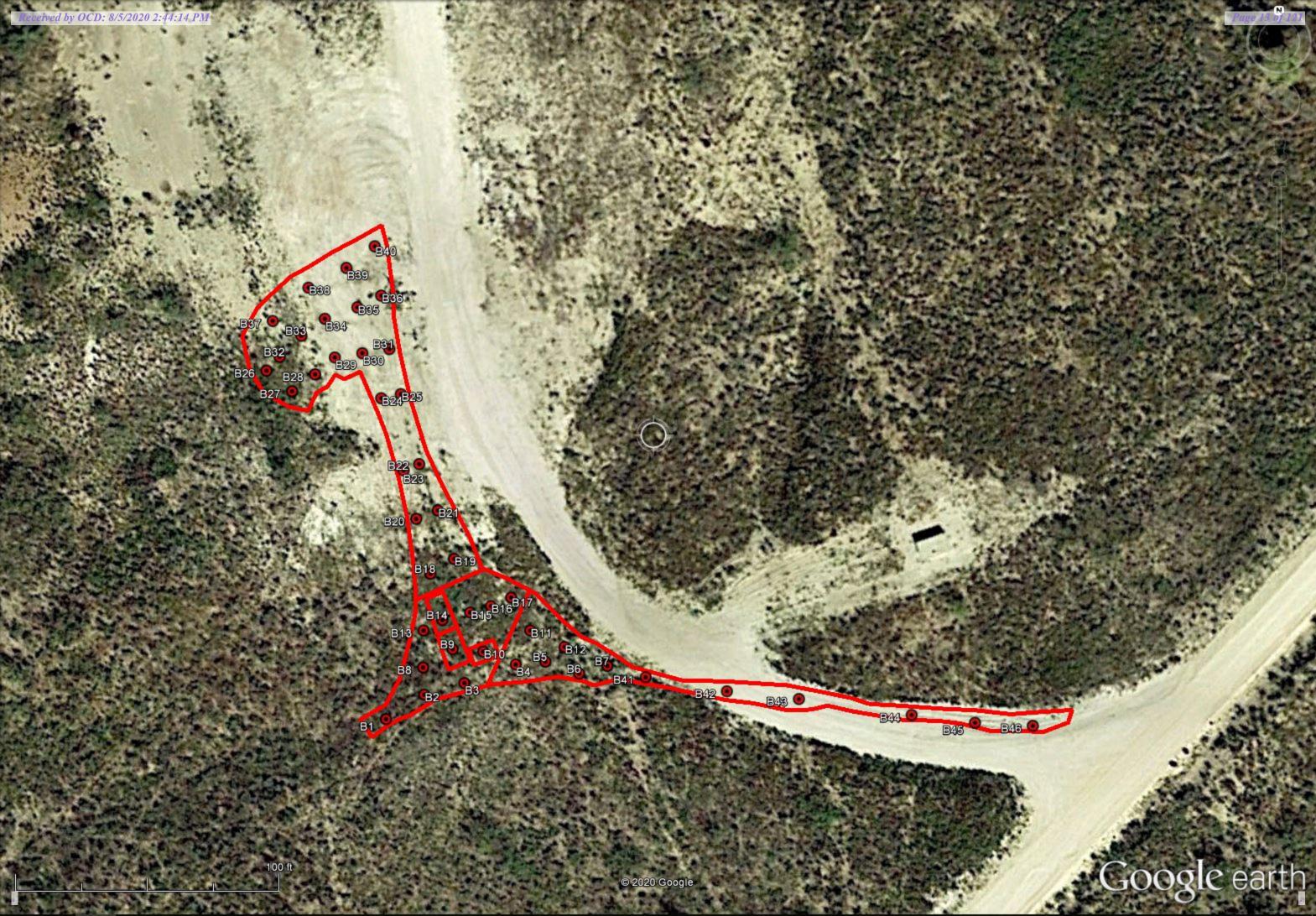


Shell GA State # 2

North	North Pasture South Pasture		North Pasture					
Sample	es @ 1'	Sampl	es @ 1'	SP 1 Vertical		SP 2		
Point	Field CL-	Point	Field CL-	Depth	CL-	Depth	CL-	
17	343	15	801	1'	780			
20	105	9	1241	3'	179	3'	428	
21	136	7	1241					
23	133							
24	161							
28	215							
29	380							
31	386							
32	104	·						
34	204							

SP 3 v	ertical	SP 4 V	ertical	SP 5 V	ertical	SP 6 V	ertical
Depth	Cl-	Depth	Cl-	Depth	CL-	Depth	CL-
1'	1382	3'	>1,000	1'	1,169	3'	408
3'	132	4'	3,149	3'	131		
		5'	392				







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Map ID	Sample Date	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
													32.5663210
B1	2/18/2020	B1 @ 3'	3'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.2639842
													32.5663490
B2	2/18/2020	B2 @ 3'	3'	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.2639390
													32.566543
В3	2/18/2020	B3 @ 3'	3'	<16.0	<0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	-103.2639011
													32.5663558
B4	2/18/2020	B4 @ 1'	1'	192	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.2638314
													32.5663668
B5	2/18/2020	B5 @ 1'	1'	336	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.2637941
	1 1												32.5663815
B6	2/18/2020	B6 @ 1'	1'	656	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.2637576
	2/24/2020	B6 @ 2'	2'	416									
	1 1												32.5663826
B7	2/18/2020	B7 @ 1'	1'	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.2637194
													32.5664007
B8	2/18/2020	B8 @ 3'	3'	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.2639427
													32.5664060
B9	2/18/2020	B9	5'	448	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.2638971
													32.5663930
B10	2/18/2020	B10 @ 6'	6'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.2638736
5		544 6 41	4.1	400							400	40.0	32.5664032
B11	2/18/2020	B11 @ 1'	1'	192	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.2637901
540	2/40/2020	D42 O 41		4000	0.050	0.050	0.050	0.450		40.0	40.0	40.0	32.5664227
B12	2/18/2020	B12 @ 1'	1'	1360	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.2637516
	2/24/2020	B12 @ 1' 6"	1.5'	240									22 5664522
D4.2	2/40/2020	D42 O 21	21	204	.0.050	.0.050	.0.050	.0.450	.0.200	.40.0	.400	40.0	32.5664532
B13	2/18/2020	B13 @ 3'	3'	384	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.2639390
D4.4	2/40/2020	D44 @ 7!	71	464	10.050	40.050	10.050	-0.450	40,200	-10.0	-10.0	110.0	32.5664631
B14	2/18/2020	B14 @ 7'	7'	464	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.2639034
D15	2/10/2020	D1E @ 2!	21	112	40.0E0	٠٥ ٥٥٥	40.0F0	-0.150	40 200	410.0	-10.0	410.0	32.5664693
B15	2/18/2020	B15 @ 3'	3'	112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.2638736
D1.C	2/10/2020	D1C @ 2!	21	076	40.0E0	٠٥ ٥٥٥	40.0F0	-0.150	40 200	410.0	-10.0	410.0	32.5664775
B16	2/18/2020	B16 @ 3'	3' 3.5'	976 48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.2638324
-	 	B16 @ 3' 6"	3.5	48				-					32.5664702
B17	2/18/2020	B17 @ 3'	3'	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.2638025
D1/	2/10/2020	D11 (W 2	3	100	\U.U3U	\U.U5U	\U.U3U	\U.13U	\U.3UU	\10.0	\1U.U	\10.0	32.5665386
B18	2/18/2020	B18 @ 1'	1'	208	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.2638857
DTQ	2/10/2020	DTO (ft. 1	Ι Ι	208	<0.050	₹0.050	NU.U3U	<0.150	₹0.300	<10.0	<10.0	<10.0	-103.2030037

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											1		32.5665810
B19	2/18/2020	B19 @ 1'	1'	144	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	53.6	21.7	-103.2639792
B13	2/18/2020	D15 @ 1		144	\0.030	\0.030	\0.030	₹0.130	\0.300	10.0	33.0	21.7	32.5665897
B20	2/18/2020	B20 @ 1'	1'	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	24.9	27.3	-103.2639380
520	2/10/2020	520 @ 1	_		10.000	101000	10.030	101250	10.500	12010	2 113	2710	32.5665810
B21	2/18/2020	B21 @ 1'	1'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	28	<10.0	-103.2639792
	_,,	& -				0.000							32.5665897
B22	2/18/2020	B22 @ 1'	1'	80	<0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	28.6	13.5	-103.2639380
													32.5665600
B23	2/18/2020	B23 @ 1'	1'	144	<0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	19.5	<10.0	-103.2639259
													32.5666197
B24	2/18/2020	B24 @ 1'	1'	<16.0	<0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.2639970
													32.566332
B25	2/18/2020	B25 @ 1'	1'	48	< 0.050	<0.050	<0.050	<0.150	<0.300	<10.0	84	58.2	-103.2669356
		B25 @ 1' 6"	1.5'								<10.0	<10.0	
													32.5666999
B26	2/18/2020	B26 @ 1'	1'	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.2641519
													32.5666787
B27	2/18/2020	B24 @ 1'	1'	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.2640775
D20	2/40/2020	D20 @ 41	41	41.0.0	40.050	40.050	10.050	-0.450	10.200	410.0	-10.0	410.0	32.5667022
B28	2/18/2020	B28 @ 1'	1'	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.2640332 32.5667095
B29	2/18/2020	B29 @ 1'	1'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.2640124
623	2/18/2020	B25 @ 1		32	\0.030	<0.030	\0.030	₹0.130	\0.300	\10.0	10.0	\10.0	32.5667090
B30	2/18/2020	B30 @ 1'	1'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.2639889
	_,,	200 C 2			10.000	101000	10.000	10.200	10.000	12010	120.0	12010	32.5667169
B31	2/18/2020	B31 @ 1'	1'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.2639581
		<u> </u>											32.5667550
B32	2/18/2020	B32 @ 1'	1'	96	<0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.2641190
													32.5667567
B33	2/18/2020	B33 @ 1'	1'	48	< 0.050	<0.050	< 0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.2646785
													32.5667646
B34	2/18/2020	B34 @ 1'	1'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.2640359
													32.5667622
B35	2/18/2020	B35 @ 1'	1'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.2639799
				_		_	_		_				32.5667739
B36	2/18/2020	B36 @ 1'	1'	96	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	59.2	52.3	-103.2639484
	2/24/2020	B36 @ 1' 6"	1.5'								<10.0	<10.0	22 5007045
D27	2/19/2020	D27 @ 1!	11	22	<0.0F0	<0.0F0	<0.0F0	<0.1F0	<0.200	~10.0	~10.0	~10.0	32.5667915
B37	2/18/2020	B37 @ 1'	1'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.2640741 32.5668025
B38	2/18/2020	B38 @ 1'	1'	736	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.2640537
D36	2/10/2020	D30 @ 1	т т	/30	\U.U3U	\U.U3U	<u>\0.030</u>	\U.15U	\U.3UU	\10.0	\10.0	\10.0	-103.2040337

Received by OCD: 8/5/2020 2:44:14 PM

Page 17 of 12.

	2/24/2020	B38 @ 1' 6"	1.5'	976									
	3/10/2020	B38@2'	2'	80									
													32.5668129
B39	2/18/2020	B39 @ 1'	1'	304	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.2640245
													32.5668432
B40	2/18/2020	B40 @ 1'	1'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	23.6	17.5	-103.2639675
													32.5663843
B41	2/18/2020	B41 @ 1'	1'	128	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	10.7	<10.0	-103.2636262
													32.5663518
B42	2/18/2020	B42 @ 3"	3"	928	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.2635259
		B42 @ 1'	1'	<16.0									
													32.5663481
B43	2/18/2020	B43 @ 3"	3"	560	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.2634049
													32.5663377
B44	2/18/2020	B44 @ 1'	1'	32	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	-103.2632979
													32.5663334
B45	2/18/2020	B45 @ 1'	1'	<16.0	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	33.3	19.8	-103.2632191
													32.5663286
B46	2/18/2020	B46 @ 1'	1'	<16.0	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	-103.2631917



February 19, 2020

JEFFREY BROOM

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: SHELL G A ST #2

Enclosed are the results of analyses for samples received by the laboratory on 02/17/20 16:27.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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.

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

Received: Reported:

DTEV 0021D

Total BTEX

02/17/2020

02/19/2020

Project Name: Project Number: Project Location: SHELL G A ST #2 NONE GIVEN

NOT GIVEN

Sampling Date:

02/17/2020

Sampling Type:

Soil

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

Sample ID: W 1 @ 1' 32.56685 - 103.26403 (H000487-01)

BIEX 8021B	mg/	кg	Anaiyze	а ву: мэ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2020	ND	1.97	98.6	2.00	3.82	
Toluene*	<0.050	0.050	02/18/2020	ND	2.00	99.9	2.00	3.58	
Ethylbenzene*	<0.050	0.050	02/18/2020	ND	2.01	100	2.00	3.62	
Total Xylenes*	< 0.150	0.150	02/18/2020	ND	5.83	97.2	6.00	3.39	

ND

02/18/2020

Surrogate: 4-Bromofluorobenzene (PID

99.7%

95.6 %

< 0.300

73.3-129

37.6-147

0.300

Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	02/19/2020	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	02/19/2020	ND	212	106	200	1.10	
DRO >C10-C28*	<10.0	10.0	02/19/2020	ND	230	115	200	3.71	
EXT DRO >C28-C36	<10.0	10.0	02/19/2020	ND					
Surrogate: 1-Chlorooctane	92.3	% 41-142							

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Celeg D. Keene



Analytical Results For:

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

Received: Reported: 02/17/2020

02/19/2020

Project Name: Project Number: SHELL G A ST #2 NONE GIVEN

Project Location:

Sampling Date:

Sampling Condition:

Sample Received By:

02/17/2020

Sampling Type:

Soil Cool & Intact

Tamara Oldaker

NOT GIVEN

Sample ID: W 2 @ 1' 32.56657 - 103.26381 (H000487-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2020	ND	1.97	98.6	2.00	3.82	
Toluene*	<0.050	0.050	02/18/2020	ND	2.00	99.9	2.00	3.58	
Ethylbenzene*	<0.050	0.050	02/18/2020	ND	2.01	100	2.00	3.62	
Total Xylenes*	<0.150	0.150	02/18/2020	ND	5.83	97.2	6.00	3.39	
Total BTEX	<0.300	0.300	02/18/2020	ND					
Surrogate: 4-Bromofluorobenzene (PL	D 99.8	% 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	02/19/2020	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	02/18/2020	ND	212	106	200	1.10	
DRO >C10-C28*	<10.0	10.0	02/18/2020	ND	230	115	200	3.71	
EXT DRO >C28-C36	<10.0	10.0	02/18/2020	ND					

Surrogate: 1-Chlorooctane

96.2 %

41-142

Surrogate: 1-Chlorooctadecane

100 %

37.6-147

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received: 02/17/2020 Reported: 02/19/2020

Project Name: SHELL G A ST #2
Project Number: NONE GIVEN

Project Location: NOT GIVEN

Sampling Date: 02/17/2020

Sampling Type: Soil

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

Sample ID: W 3 @ 1' 32.5663707 - 103.2634103 (H000487-03)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2020	ND	1.97	98.6	2.00	3.82	
Toluene*	<0.050	0.050	02/18/2020	ND	2.00	99.9	2.00	3.58	
Ethylbenzene*	<0.050	0.050	02/18/2020	ND	2.01	100	2.00	3.62	
Total Xylenes*	<0.150	0.150	02/18/2020	ND	5.83	97.2	6.00	3.39	
Total BTEX	<0.300	0.300	02/18/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	02/19/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2020	ND	212	106	200	1.10	
DRO >C10-C28*	<10.0	10.0	02/18/2020	ND	230	115	200	3.71	
EXT DRO >C28-C36	<10.0	10.0	02/18/2020	ND					
Surrogate: 1-Chlorooctane	94.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	98.8	% 37.6-14	7						

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Analytical Results For:

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

Received: Reported: 02/17/2020

02/19/2020

Project Name: Project Number: Project Location: SHELL G A ST #2 NONE GIVEN **NOT GIVEN**

Sampling Date:

02/17/2020

Sampling Type:

Soil

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

Sample ID: W 4 @ 1' 32.5663244 - 103.2631484 (H000487-04)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2020	ND	1.97	98.6	2.00	3.82	
Toluene*	<0.050	0.050	02/18/2020	ND	2.00	99.9	2.00	3.58	
Ethylbenzene*	< 0.050	0.050	02/18/2020	ND	2.01	100	2.00	3.62	
Total Xylenes*	< 0.150	0.150	02/18/2020	ND	5.83	97.2	6.00	3.39	
Total BTEX	<0.300	0.300	02/18/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 73.3-12	19						
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	02/19/2020	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	02/19/2020	ND	212	106	200	1.10	
DRO >C10-C28*	<10.0	10.0	02/19/2020	ND	230	115	200	3.71	
EXT DRO >C28-C36	<10.0	10.0	02/19/2020	ND					
Surrogate: 1-Chlorooctane	83.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	87.1	% 37.6-14	!7						

Surrogate: 1-Chlorooctadecane

87.1 %

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Celeg D. Keene



Analytical Results For:

APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To: (575) 393-2432

Received: Reported: 02/17/2020

02/19/2020

Project Name: Project Number: Project Location: SHELL G A ST #2 NONE GIVEN

NOT GIVEN

Sampling Date:

02/17/2020

Sampling Type:

Soil

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

Sample ID: W 5 @ 1' 32.5663761 - 103.2636359 (H000487-05)

BTEX 8021B	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2020	ND	1.97	98.6	2.00	3.82	
Toluene*	<0.050	0.050	02/18/2020	ND	2.00	99.9	2.00	3.58	
Ethylbenzene*	<0.050	0.050	02/18/2020	ND	2.01	100	2.00	3.62	
Total Xylenes*	<0.150	0.150	02/18/2020	ND	5.83	97.2	6.00	3.39	
Total BTEX	<0.300	0.300	02/18/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	02/19/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/19/2020	ND	212	106	200	1.10	
DRO >C10-C28*	<10.0	10.0	02/19/2020	ND	230	115	200	3.71	
EXT DRO >C28-C36	<10.0	10.0	02/19/2020	ND					
Surrogate: 1-Chlorooctane	90.4	% 41-142	?						
Surrogate: 1-Chlorooctadecane	93.7	% 37.6-14	7						

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Analytical Results For:

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

Received:

02/17/2020

Reported: Project Name: 02/19/2020 SHELL G A ST #2 NONE GIVEN

ma/ka

Project Number: Project Location:

RTFY 8021R

NOT GIVEN

Sampling Date:

02/17/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: W 6 @ 3' 32.5663041 - 103.2639692 (H000487-06)

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2020	ND	1.97	98.6	2.00	3.82	
Toluene*	<0.050	0.050	02/18/2020	ND	2.00	99.9	2.00	3.58	
Ethylbenzene*	<0.050	0.050	02/18/2020	ND	2.01	100	2.00	3.62	
Total Xylenes*	<0.150	0.150	02/18/2020	ND	5.83	97.2	6.00	3.39	
Total BTEX	<0.300	0.300	02/18/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/19/2020	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	02/19/2020	ND	212	106	200	1.10	
DRO >C10-C28*	<10.0	10.0	02/19/2020	ND	230	115	200	3.71	
EXT DRO >C28-C36	<10.0	10.0	02/19/2020	ND					
Surrogate: 1-Chlorooctane	94.3	% 41-142	•						
Surrogate: 1-Chlorooctadecane	98.3	% 37.6-14	7						

Analyzed Ry: MS

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Celeg D. Freene



Analytical Results For:

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

Received: Reported:

BTEX 8021B

02/17/2020

02/19/2020

Project Name: Project Number: SHELL G A ST #2 NONE GIVEN

Project Location:

NOT GIVEN

mg/kg

Sampling Date:

02/17/2020

Sampling Type:

Soil

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

Sample ID: W 7 @ 3' 32.5664190 - 103.2639330 (H000487-07)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2020	ND	1.97	98.6	2.00	3.82	
Toluene*	<0.050	0.050	02/18/2020	ND	2.00	99.9	2.00	3.58	
Ethylbenzene*	<0.050	0.050	02/18/2020	ND	2.01	100	2.00	3.62	
Total Xylenes*	<0.150	0.150	02/18/2020	ND	5.83	97.2	6.00	3.39	
Total BTEX	<0.300	0.300	02/18/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'ka	Analyze	d By: AC					
				/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte Chloride			-		BS 416	% Recovery	True Value QC	RPD 0.00	Qualifier
•	Result	Reporting Limit	Analyzed 02/19/2020	Method Blank		•	·		Qualifier
Chloride	Result <16.0	Reporting Limit	Analyzed 02/19/2020	Method Blank		•	·		Qualifier Qualifier
Chloride TPH 8015M	Result <16.0 mg/	Reporting Limit 16.0	Analyzed 02/19/2020 Analyze	Method Blank ND d By: MS	416	104	400	0.00	
Chloride TPH 8015M Analyte	Result <16.0 mg/	Reporting Limit 16.0 'kg Reporting Limit	Analyzed 02/19/2020 Analyze	Method Blank ND d By: MS Method Blank	416 BS	104 % Recovery	400 True Value QC	0.00	

Analyzed By: MS

Surrogate: 1-Chlorooctane

93.2 %

41-142

Surrogate: 1-Chlorooctadecane

98.2 %

37.6-147

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:

02/17/2020

Reported: Project Name:

02/19/2020 SHELL G A ST #2 NONE GIVEN

Project Number: Project Location:

NOT GIVEN

Sampling Date:

02/17/2020

Sampling Type:

Soil

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

Sample ID: W 8 @ 3' 32.5665250 - 103.2638699 (H000487-08)

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	02/18/2020	ND	1.97	98.6	2.00	3.82	
Toluene*	<0.050	0.050	02/18/2020	ND	2.00	99.9	2.00	3.58	
Ethylbenzene*	<0.050	0.050	02/18/2020	ND	2.01	100	2.00	3.62	
Total Xylenes*	<0.150	0.150	02/18/2020	ND	5.83	97.2	6.00	3.39	
Total BTEX	<0.300	0.300	02/18/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID

99.7 %

73.3-129

Chloride, SM4500Cl-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	02/19/2020	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	02/19/2020	ND	212	106	200	1.10	
DRO >C10-C28*	<10.0	10.0	02/19/2020	ND	230	115	200	3.71	
EXT DRO >C28-C36	<10.0	10.0	02/19/2020	ND					

Surrogate: 1-Chlorooctane

92.9 %

41-142

Surrogate: 1-Chlorooctadecane

96.6 %

37.6-147

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:

BTEX 8021B

02/17/2020

Reported: Project Name: 02/19/2020 SHELL G A ST #2

Project Number:

NONE GIVEN

mg/kg

Sampling Date:

02/17/2020

Sampling Type:

Soil

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

Project Location: NOT GIVEN

Sample ID: W 9 @ 3' 32.5664419 - 103.2638180 (H000487-09)

				<u> </u>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2020	ND	1.97	98.6	2.00	3.82	
Toluene*	<0.050	0.050	02/18/2020	ND	2.00	99.9	2.00	3.58	
Ethylbenzene*	<0.050	0.050	02/18/2020	ND	2.01	100	2.00	3.62	
Total Xylenes*	<0.150	0.150	02/18/2020	ND	5.83	97.2	6.00	3.39	
Total BTEX	<0.300	0.300	02/18/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/19/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/19/2020	ND	212	106	200	1.10	
DRO >C10-C28*	<10.0	10.0	02/19/2020	ND	230	115	200	3.71	
EXT DRO >C28-C36	<10.0	10.0	02/19/2020	ND					
Surrogate: 1-Chlorooctane	90.6	% 41-142	•						
Surrogate: 1-Chlorooctadecane	95.7	% 37.6-14	7						

Analyzed By: MS

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Analytical Results For:

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

Received: Reported: 02/17/2020

02/19/2020

Project Name: Project Number: Project Location: SHELL G A ST #2 NONE GIVEN NOT GIVEN

Sampling Date:

02/17/2020

Sampling Type:

Sampling Condition: Sample Received By: Soil Cool & Intact

Tamara Oldaker

Sample ID: W 10 @ 6' 32.5664349 - 103.2638361 (H000487-10)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2020	ND	1.97	98.6	2.00	3.82	
Toluene*	<0.050	0.050	02/18/2020	ND	2.00	99.9	2.00	3.58	
Ethylbenzene*	<0.050	0.050	02/18/2020	ND	2.01	100	2.00	3.62	
Total Xylenes*	<0.150	0.150	02/18/2020	ND	5.83	97.2	6.00	3.39	
Total BTEX	<0.300	0.300	02/18/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/19/2020	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	02/19/2020	ND	212	106	200	1.10	
DRO >C10-C28*	<10.0	10.0	02/19/2020	ND	230	115	200	3.71	
EXT DRO >C28-C36	<10.0	10.0	02/19/2020	ND					
Surrogate: 1-Chlorooctane	86.9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	91.9	% 37.6-14	7						

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Celeg D. Keene



Analytical Results For:

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

Received: Reported:

RTFY 8021R

02/17/2020

02/19/2020

Project Name: Project Number: SHELL G A ST #2 NONE GIVEN

Project Location:

NOT GIVEN

ma/ka

Sampling Date:

02/17/2020

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By: Tamara Oldaker

Sample ID: W 11 @ 6' 32.5664165 - 103.2638431 (H000487-11)

B1EX 8021B	mg,	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2020	ND	1.97	98.6	2.00	3.82	
Toluene*	<0.050	0.050	02/18/2020	ND	2.00	99.9	2.00	3.58	
Ethylbenzene*	<0.050	0.050	02/18/2020	ND	2.01	100	2.00	3.62	
Total Xylenes*	<0.150	0.150	02/18/2020	ND	5.83	97.2	6.00	3.39	
Total BTEX	<0.300	0.300	02/18/2020	ND					
Surrogate: 4-Bromofluorobenzene (F	PID 99.2	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/19/2020	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/19/2020	ND	212	106	200	1.10	
DRO >C10-C28*	<10.0	10.0	02/19/2020	ND	230	115	200	3.71	
EXT DRO >C28-C36	<10.0	10.0	02/19/2020	ND					
Surrogate: 1-Chlorooctane	89.9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	94.5	% 37.6-14	7						

Analyzed Ry: MS

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Analytical Results For:

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

Received: Reported: 02/17/2020

02/19/2020

Project Name: Project Number: Project Location: SHELL G A ST #2 NONE GIVEN

NOT GIVEN

Sampling Date: 02/17/2020

Sampling Type: Soil

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

Sample ID: W 12 @ 6' 32.5664425 - 103.2638267 (H000487-12)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2020	ND	1.97	98.6	2.00	3.82	
Toluene*	<0.050	0.050	02/18/2020	ND	2.00	99.9	2.00	3.58	
Ethylbenzene*	<0.050	0.050	02/18/2020	ND	2.01	100	2.00	3.62	
Total Xylenes*	<0.150	0.150	02/18/2020	ND	5.83	97.2	6.00	3.39	
Total BTEX	<0.300	0.300	02/18/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 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	02/19/2020	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	02/19/2020	ND	212	106	200	1.10	
DRO >C10-C28*	<10.0	10.0	02/19/2020	ND	230	115	200	3.71	
EXT DRO >C28-C36	<10.0	10.0	02/19/2020	ND					
Surrogate: 1-Chlorooctane	87.5	% 41-142	!						
Surrogate: 1-Chlorooctadecane	93.1	% 37.6-14	7						

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Analytical Results For:

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

Received:

02/17/2020

Reported: Project Name: 02/19/2020 SHELL G A ST #2 NONE GIVEN

Project Number: Project Location:

NOT GIVEN

Sampling Date:

02/17/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: W 13 @ 6' 32.5664419 - 103.2638188 (H000487-13)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2020	ND	1.97	98.6	2.00	3.82	
Toluene*	<0.050	0.050	02/18/2020	ND	2.00	99.9	2.00	3.58	
Ethylbenzene*	<0.050	0.050	02/18/2020	ND	2.01	100	2.00	3.62	
Total Xylenes*	<0.150	0.150	02/18/2020	ND	5.83	97.2	6.00	3.39	
Total BTEX	<0.300	0.300	02/18/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	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	02/19/2020	ND	432	108	400	3.64	
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	02/19/2020	ND	212	106	200	1.10	
DRO >C10-C28*	<10.0	10.0	02/19/2020	ND	230	115	200	3.71	
EXT DRO >C28-C36	<10.0	10.0	02/19/2020	ND					
Surrogate: 1-Chlorooctane	79.5	% 41-142							
Surrogate: 1-Chlorooctadecane	84.3	% 37.6-14	7						

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Analytical Results For:

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

Received: Reported:

BTEX 8021B

02/17/2020

02/19/2020

Project Name: Project Number: SHELL G A ST #2 NONE GIVEN

Sampling Date:

02/17/2020

Sampling Type:

Soil

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

Project Location:

NOT GIVEN

mg/kg

Sample ID: W 14 @ 1' 32.5666875 - 103.2640627 (H000487-14)

DIEX GOZID	ıııg,	K9	Andryzo	u by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/18/2020	ND	1.97	98.6	2.00	3.82	
Toluene*	<0.050	0.050	02/18/2020	ND	2.00	99.9	2.00	3.58	
Ethylbenzene*	<0.050	0.050	02/18/2020	ND	2.01	100	2.00	3.62	
Total Xylenes*	<0.150	0.150	02/18/2020	ND	5.83	97.2	6.00	3.39	
Total BTEX	<0.300	0.300	02/18/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/19/2020	ND	432	108	400	3.64	
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	02/19/2020	ND	212	106	200	1.10	
DRO >C10-C28*	<10.0	10.0	02/19/2020	ND	230	115	200	3.71	
EXT DRO >C28-C36	<10.0	10.0	02/19/2020	ND					
Surrogate: 1-Chlorooctane	85.1	% 41-142	•						
Surrogate: 1-Chlorooctadecane	88.3	% 37.6-14	7						

Analyzed By: MS

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Celeg D. Keene



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326 FAX (575) 393-2476	5) 393-2476			_1
Company Name: Ap. La		BILL TO	ANALYSIS REQUEST	
Project Manager: Se P. Boom		P.O. #:		
Address:		Company:		
lob bs	State: NM Zip: 88-246	Attn:		-
Phone #: Fax #:		Address:		
	Project Owner:	City:		
Project Name:		State: Zip:		
Project Location: Shell GA St #2		Phone #:		
Case &		Fax #:		
	MATRIX	PRESERV. SAMPLING		
Lab I.D. Sample I.D.	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	TIME C/ EXT TOPH BTEX	
-103,26403	Call	2/17	3:02px	
2 W2@1: 32.56657	611		3:04	
3 W301' 32.566 3707	07 (6)	-	3:06pm	
103.263 4103	CAI		3:080	
~103.263.1444				
5 WSO1 32.5663761	761 (61)		SI GM	
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Relinduished By: Atin	ed By: Date: 17-20 Received By:		Verbal Result:	
Refinquished By: Time:	Date: Received By:		upe revited as	
Delivered By: (Circle One) Observe	Observed Temp. °C Sample Condition	CHECKED BY: (Initials)	Standard C	THE REAL PROPERTY.
Sampler - UPS - Bus - Other: Correct	ed Temp. °C Yes Yes	743	Correction Factor \$-0.4°C \$\frac{\pm}{1}\frac{\pm}{3} \qquad \left[\ln \pm \ln \pm \rm \rm \rm \rm \rm \rm \rm \rm \rm \r	L

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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: 12 kg	8/11/0	ANALYSIS REQUEST
roject Manager: Seff Boon	P.O. #:	
	Company:	
Sity: Hobbs State: NM Zip: 88246	240 Attn:	
е#	Address:	
Project #: Project Owner:	City:	
ame:	State: Zip:	
Project Location: Shell BA St #2	Phone #:	
,		
	MATRIX PRESERV. SAMPLING	LING
-		PH
Lab I.D. Sample I.D.	DUNDWA STEWATE L JDGE HER: D/BASE: / COOL HER:	1 3TEX
(G)F	SOIL SLU OTH ACI	(
6 W603' 32,5663041 CB 1	1 1/2	3:12 -
7 W763' 32,5664190 CG 1		3:14/2
-103.2639330 C		
8 W 8@ 3 32.566 52 80 50 6 1		13/16px
-103.2638699		
9 403 32.566 4419 6		3:18px
103.26		
~102 263 G3 ()		\(\sigma \)
PLEASE NOTE: Liability and Damages. Cardinat's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal writing 30 days after the client is exhected to the applicable	illy and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal writing and the client and	I by the client for the complete of the police of the completion of the applicable float in the completion of the applicable float in the complete of the comp
service. In no event snati cardinal be liable to introduction of consequential varieties of successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any	rdless of whether such claim is based upon any of the above stated reasons or otherwise.	
	B	Verbal Result: ☐ Yes ☐ No Add'l Phone #: All Results are emailed. Please provide Email address:
	Received By:	REMARKS:
	Sample Condition CHECKED BY:	Turnaround Time: Standard 🗹 Bacteria (only) Sample Condition
T. T.		Rush
Sampler - UPS - Bus - Other: Corrected lemp. C	No No No	Correction Factor +1.4°C 4 1/3

Relinquished By:

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

Observed Temp. °C, 7,7
Corrected Temp. °C

Cool Intact
Yes Yes
No No Sample Condition

CHECKED BY: (Initials)

Turnaround Time:

Standard Rush

Thermometer ID #97
Correction Factor + 0.4°C

Time:

Received By:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

	(0/0) 090-2020 1 MA (0/0) 000-24/0		
Company Name:	Arache	BILL TO	ANALYSIS REQUEST
Project Manager:	Left Brown	P.O. #:	
Address:		Company:	
city: Hobbs	State: (1) MZip: 68 H)	Attn:	
Phone #:	Fax#:	Address:	
Project #:	Project Owner:	City:	
Project Name:		State: Zip:	
Project Location:	Shell 64 St #2	Phone #:	6
Sampler Name:	1	Fax #:	
FOR LAB USE ONLY	MATRIX	X PRESERV. SAMPLING	2,
	RS TER R		191
Lab I.D.	Sample I.D. AB OR (C NTAINER UNDWAT TEWATER	ER : /BASE: COOL	
18 HOOOH	# COI	SLUD OTHE ACID	()
_	w11,06 32.566 4165 CG 1 1	1 2/17 3:2224	1 / / / / /
	-103.2638431		
12	W1210 6' 32.566 4425CG 11 1	3:24/px	
	-103.263 82.67		
72	W136 6, 32.899 4A18 CB 1	1 3:2600	
2	1 8 22 (57 175 08 11 97) (17	3:98	
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Relinquished By	Date: PReceived By:		Verbal Result: ☐ Yes ☐ No ☐ Add'l Phone #: All Results are emailed. Please provide Email address:
Reimquished By:	Date: Received By:	REMARKS:	RKS:



February 21, 2020

JEFFREY BROOM

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: SHELL G A ST #2

Enclosed are the results of analyses for samples received by the laboratory on 02/18/20 15:41.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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.

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

Received: Reported: 02/18/2020

02/21/2020

Project Name: Project Number: SHELL G A ST #2 NONE GIVEN NOT GIVEN

Project Location:

Sampling Date:

02/18/2020

Sampling Type:

Soil

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

Sample ID: B 1 @ 3' 32.5663210 - 103.2639842 (H000509-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2020	ND	1.99	99.6	2.00	2.34	
Toluene*	<0.050	0.050	02/19/2020	ND	2.01	101	2.00	2.52	
Ethylbenzene*	<0.050	0.050	02/19/2020	ND	2.02	101	2.00	3.11	
Total Xylenes*	<0.150	0.150	02/19/2020	ND	5.87	97.8	6.00	3.08	
Total BTEX	<0.300	0.300	02/19/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID

102 %

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	32.0	16.0	02/20/2020	ND	432	108	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	02/20/2020	ND	194	97.1	200	0.915	
DRO >C10-C28*	<10.0	10.0	02/20/2020	ND	182	90.8	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	02/20/2020	ND					
Surrogate: 1-Chlorooctane	87.6	% 44.3-14	4						

Cardinal Laboratories

42.2-156

Surrogate: 1-Chlorooctadecane

87.3 %

*=Accredited Analyte

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Celey D. Keine



Analytical Results For:

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

Received: Reported: 02/18/2020

02/21/2020

Project Name: Project Number: Project Location: SHELL G A ST #2 NONE GIVEN NOT GIVEN Sampling Date:

02/18/2020

Sampling Type:

Soil

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

Sample ID: B 2 @ 3' 32.5663490 - 103.2639390 (H000509-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2020	ND	1.99	99.6	2.00	2.34	
Toluene*	<0.050	0.050	02/19/2020	ND	2.01	101	2.00	2.52	
Ethylbenzene*	< 0.050	0.050	02/19/2020	ND	2.02	101	2.00	3.11	
Total Xylenes*	<0.150	0.150	02/19/2020	ND	5.87	97.8	6.00	3.08	
Total BTEX	<0.300	0.300	02/19/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	02/20/2020	ND	432	108	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	02/20/2020	ND	194	97.1	200	0.915	
DRO >C10-C28*	<10.0	10.0	02/20/2020	ND	182	90.8	200	3.41	
EXT DRO >C28-C36	<10.0	10.0	02/20/2020	ND					
Surrogate: 1-Chlorooctane	91.0	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	92.5	% 42.2-15	6						

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Analytical Results For:

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

•

Received: 02/18/2020

Reported: 02/21/2020
Project Name: SHELL G A ST #2
Project Number: NONE GIVEN

Project Location: NOT GIVEN

Sampling Date: 02/18/2020

Sampling Type: Soil

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

Sample ID: B 3 @ 3' 32.566543 - 103.2639011 (H000509-03)

Toluene* < 0.050 0.050 02/19/2020 ND 2.01 101 2.00 Ethylbenzene* < 0.050 0.050 02/19/2020 ND 2.02 101 2.00 Total Xylenes* < 0.150 0.150 02/19/2020 ND 5.87 97.8 6.00 Total BTEX < 0.300 0.300 02/19/2020 ND Surrogate: 4-Bromofluorobenzene (PID 102 % 73.3-129 Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC Chloride < 16.0 16.0 02/20/2020 ND 432 108 400 TPH 8015M mg/kg Analyzed By: MS Analyzed Method Blank BS % Recovery True Value QC GRO C6-C10* < 10.0 10.0 02/20/2020 ND 194 97.1 200 (COMPON) DRO >C10-C28* < 10.0 10.0 02/20/2020 ND 182 90.8 200 EXT DRO >C28-C36 < 10.0 10.0 02/20/2020 ND Surrogate: 1-Chlorooctane 89.2 % 44.3-144	BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Toluene* < 0.050 0.050 02/19/2020 ND 2.01 101 2.00 Ethylbenzene* < 0.050 0.050 02/19/2020 ND 2.02 101 2.00 Total Xylenes* < 0.150 0.150 02/19/2020 ND 5.87 97.8 6.00 Total BTEX < 0.300 0.300 02/19/2020 ND Surrogate: 4-Bromofluorobenzene (PID 102 % 73.3-129 Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC Chloride < 16.0 16.0 02/20/2020 ND 432 108 400 TPH 8015M mg/kg Analyzed By: MS Analyzed Method Blank BS % Recovery True Value QC GRO C6-C10* < 10.0 10.0 02/20/2020 ND 194 97.1 200 (CCC) GRO > C10-C28* < 10.0 10.0 02/20/2020 ND 182 90.8 200 EXT DRO > C28-C36 < 10.0 10.0 02/20/2020 ND Surrogate: 1-Chlorooctane 89.2 % 44.3-144	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Ethylbenzene* <0.050 0.050 02/19/2020 ND 2.02 101 2.00 Total Xylenes* <0.150 0.150 02/19/2020 ND 5.87 97.8 6.00 Total BTEX <0.300 0.300 02/19/2020 ND Surrogate: 4-Bromofluorobenzene (PID 102 % 73.3-129 Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC Chloride <16.0 16.0 02/20/2020 ND 432 108 400 TPH 8015M mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC GRO C6-C10* <10.0 10.0 02/20/2020 ND 194 97.1 200 00 DRO >C10-C28* <10.0 10.0 02/20/2020 ND 182 90.8 200 EXT DRO >C28-C36 <10.0 10.0 02/20/2020 ND Surrogate: 1-Chlorooctane 89.2 % 44.3-144	Benzene*	<0.050	0.050	02/19/2020	ND	1.99	99.6	2.00	2.34	
Total Xylenes* <0.150 0.150 02/19/2020 ND 5.87 97.8 6.00 Total BTEX <0.300	Toluene*	<0.050	0.050	02/19/2020	ND	2.01	101	2.00	2.52	
Total BTEX <0.300 0.300 02/19/2020 ND Surrogate: 4-Bromofluorobenzene (PID 102 % 73.3-129 Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed By: AC Chloride <16.0	Ethylbenzene*	<0.050	0.050	02/19/2020	ND	2.02	101	2.00	3.11	
Surrogate: 4-Bromofluorobenzene (PID 102 % 73.3-129 Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC Chloride <16.0 16.0 02/20/2020 ND 432 108 400	Total Xylenes*	<0.150	0.150	02/19/2020	ND	5.87	97.8	6.00	3.08	
Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Reporting Limit Analyzed Method Blank BS Recovery True Value QC Chloride <16.0 16.0 02/20/2020 ND 432 108 400	Total BTEX	<0.300	0.300	02/19/2020	ND					
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC Chloride <16.0 16.0 02/20/2020 ND 432 108 400 TPH 8015M mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC GRO C6-C10* <10.0 10.0 02/20/2020 ND 194 97.1 200 00 DRO >C10-C28* <10.0 10.0 02/20/2020 ND 182 90.8 200 EXT DRO >C28-C36 <10.0 10.0 02/20/2020 ND Surrogate: 1-Chlorooctane 89.2 % 44.3-144	Surrogate: 4-Bromofluorobenzene (Pi	D 102	% 73.3-12	?9						
Chloride <16.0 16.0 02/20/2020 ND 432 108 400 TPH 8015M mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed By: MS GRO C6-C10* <10.0	Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
TPH 8015M mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC GRO C6-C10* <10.0	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC GRO C6-C10* <10.0 10.0 02/20/2020 ND 194 97.1 200 0 DRO >C10-C28* <10.0 10.0 02/20/2020 ND 182 90.8 200 EXT DRO >C28-C36 <10.0 10.0 02/20/2020 ND Surrogate: 1-Chlorooctane 89.2 % 44.3-144	Chloride	<16.0	16.0	02/20/2020	ND	432	108	400	0.00	
GRO C6-C10* <10.0 10.0 02/20/2020 ND 194 97.1 200 00 DRO >C10-C28* <10.0 10.0 02/20/2020 ND 182 90.8 200 EXT DRO >C28-C36 <10.0 10.0 02/20/2020 ND Surrogate: 1-Chlorooctane 89.2 % 44.3-144	TPH 8015M	mg	/kg	Analyze	ed By: MS					
DRO >C10-C28* < 10.0 10.0 02/20/2020 ND 182 90.8 200 EXT DRO >C28-C36 <10.0 10.0 02/20/2020 ND Surrogate: 1-Chlorooctane 89.2 % 44.3-144	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
EXT DRO >C28-C36 <10.0 10.0 02/20/2020 ND Surrogate: 1-Chlorooctane 89.2 % 44.3-144	GRO C6-C10*	<10.0	10.0	02/20/2020	ND	194	97.1	200	0.915	
Surrogate: 1-Chlorooctane 89.2 % 44.3-144	DRO >C10-C28*	<10.0	10.0	02/20/2020	ND	182	90.8	200	3.41	
	EXT DRO >C28-C36	<10.0	10.0	02/20/2020	ND					
Surrogata: 1 Chlorocatadogana 01.4% 42.2.156	Surrogate: 1-Chlorooctane	89.2	% 44.3-14	14						
Surroguie. 1-Chioroociaaecane 71.4 /0 42.2-130	Surrogate: 1-Chlorooctadecane	91.4	% 42.2-15	56						

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Celeg & Freene



Analytical Results For:

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

Received:

02/18/2020 02/21/2020

Reported:

Project Name: Project Number: NONE GIVEN **NOT GIVEN**

Project Location:

RTFY 8021R

SHELL G A ST #2

ma/ka

Sampling Type: Sampling Condition: Sample Received By:

Sampling Date:

02/18/2020

Soil

Cool & Intact Tamara Oldaker

Sample ID: B 4 @ 1' 32.5663558 - 103.2638314 (H000509-04)

B1EX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2020	ND	1.99	99.6	2.00	2.34	
Toluene*	<0.050	0.050	02/19/2020	ND	2.01	101	2.00	2.52	
Ethylbenzene*	<0.050	0.050	02/19/2020	ND	2.02	101	2.00	3.11	
Total Xylenes*	<0.150	0.150	02/19/2020	ND	5.87	97.8	6.00	3.08	
Total BTEX	<0.300	0.300	02/19/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/20/2020	ND	432	108	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	02/19/2020	ND	182	91.0	200	3.52	
DRO >C10-C28*	<10.0	10.0	02/19/2020	ND	196	98.0	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	02/19/2020	ND					
Surrogate: 1-Chlorooctane	93.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	96.5	% 42.2-15	6						

Analyzed Ry: MS

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Celey D. Keene



Analytical Results For:

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

Received: Reported: 02/18/2020

02/21/2020

Project Name: Project Number: Project Location: SHELL G A ST #2 NONE GIVEN **NOT GIVEN**

Sampling Date:

02/18/2020

Sampling Type:

Soil

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

Sample ID: B 5 @ 1' 32.5663668 - 103.2637941 (H000509-05)

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	02/19/2020	ND	1.97	98.6	2.00	1.94	
Toluene*	<0.050	0.050	02/19/2020	ND	2.01	101	2.00	1.29	
Ethylbenzene*	<0.050	0.050	02/19/2020	ND	1.99	99.4	2.00	2.41	
Total Xylenes*	<0.150	0.150	02/19/2020	ND	5.78	96.3	6.00	2.20	
Total BTEX	<0.300	0.300	02/19/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID

99.1 %

73.3-129

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	02/20/2020	ND	432	108	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	02/19/2020	ND	182	91.0	200	3.52	
DRO >C10-C28*	<10.0	10.0	02/19/2020	ND	196	98.0	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	02/19/2020	ND					

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

91.6%

42.2-156

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Celeg D. Keene



Analytical Results For:

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

Received:

RTFY 8021R

02/18/2020

Sampling Date:

02/18/2020

Reported:

02/21/2020

Sampling Type:

Soil

Project Name:

SHELL G A ST #2

Sampling Condition:

Cool & Intact

Project Number: Project Location:

NONE GIVEN

ma/ka

Sample Received By:

Tamara Oldaker

Sample ID: B 6 @ 1' 32.5663815 - 103.2637576 (H000509-06)

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2020	ND	1.97	98.6	2.00	1.94	
Toluene*	<0.050	0.050	02/19/2020	ND	2.01	101	2.00	1.29	
Ethylbenzene*	<0.050	0.050	02/19/2020	ND	1.99	99.4	2.00	2.41	
Total Xylenes*	<0.150	0.150	02/19/2020	ND	5.78	96.3	6.00	2.20	
Total BTEX	<0.300	0.300	02/19/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	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	656	16.0	02/20/2020	ND	432	108	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	02/19/2020	ND	182	91.0	200	3.52	
DRO >C10-C28*	<10.0	10.0	02/19/2020	ND	196	98.0	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	02/19/2020	ND					
Surrogate: 1-Chlorooctane	89.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	93.6	% 42.2-15	6						

Analyzed Ry: MS

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Analytical Results For:

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

Received: Reported: 02/18/2020

02/21/2020

Project Name: Project Number: Project Location: SHELL G A ST #2 NONE GIVEN NOT GIVEN Sampling Date:

02/18/2020

Sampling Type: Sampling Condition:

Sample Received By:

Soil

Cool & Intact Tamara Oldaker

Sample ID: B 7 @ 1' 32.5663826 - 103.2637194 (H000509-07)

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	02/19/2020	ND	1.97	98.6	2.00	1.94	
Toluene*	<0.050	0.050	02/19/2020	ND	2.01	101	2.00	1.29	
Ethylbenzene*	<0.050	0.050	02/19/2020	ND	1.99	99.4	2.00	2.41	
Total Xylenes*	<0.150	0.150	02/19/2020	ND	5.78	96.3	6.00	2.20	
Total BTEX	<0.300	0.300	02/19/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID

100 %

73.3-129

mg/kg		Analyzed By: AC						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
80.0	16.0	02/20/2020	ND	432	108	400	0.00	
mg,	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	02/19/2020	ND	182	91.0	200	3.52	
<10.0	10.0	02/19/2020	ND	196	98.0	200	2.11	
<10.0	10.0	02/19/2020	ND					
	Result 80.0 mg, Result <10.0 <10.0	Result Reporting Limit 80.0 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0	Result Reporting Limit Analyzed 80.0 16.0 02/20/2020 mg/kg Analyze Result Reporting Limit Analyzed <10.0	Result Reporting Limit Analyzed Method Blank 80.0 16.0 02/20/2020 ND mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank <10.0	Result Reporting Limit Analyzed Method Blank BS 80.0 16.0 02/20/2020 ND 432 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery 80.0 16.0 02/20/2020 ND 432 108 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 80.0 16.0 02/20/2020 ND 432 108 400 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 80.0 16.0 02/20/2020 ND 432 108 400 0.00 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <10.0

Surrogate: 1-Chlorooctane

84.0 %

44.3-144

Surrogate: 1-Chlorooctadecane

86.9 %

42.2-156

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Celeg D. Freene



Analytical Results For:

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

Received: Reported: 02/18/2020

02/21/2020

Project Name: Project Number: SHELL G A ST #2 NONE GIVEN NOT GIVEN

Project Location:

Sampling Date: 02/18/2020 Sampling Type: Soil

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

Sample ID: B 8 @ 3' 32.5664007 - 103.2639427 (H000509-08)

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	02/19/2020	ND	1.97	98.6	2.00	1.94	
Toluene*	<0.050	0.050	02/19/2020	ND	2.01	101	2.00	1.29	
Ethylbenzene*	<0.050	0.050	02/19/2020	ND	1.99	99.4	2.00	2.41	
Total Xylenes*	<0.150	0.150	02/19/2020	ND	5.78	96.3	6.00	2.20	
Total BTEX	<0.300	0.300	02/19/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID

99.5 %

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	02/20/2020	ND	432	108	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	02/19/2020	ND	182	91.0	200	3.52	
DRO >C10-C28*	<10.0	10.0	02/19/2020	ND	196	98.0	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	02/19/2020	ND					

Surrogate: 1-Chlorooctane

90.1 %

44.3-144

Surrogate: 1-Chlorooctadecane

93.2 %

42.2-156

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Analytical Results For:

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

Received: Reported: 02/18/2020

02/21/2020

Project Name: Project Number: SHELL G A ST #2 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

Sampling Condition:

Sample Received By:

02/18/2020

Sampling Type:

Soil Cool & Intact

Tamara Oldaker

Sample ID: B 10 @ 6' 32.5663930 - 103.2638736 (H000509-09)

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	02/19/2020	ND	1.97	98.6	2.00	1.94	
Toluene*	<0.050	0.050	02/19/2020	ND	2.01	101	2.00	1.29	
Ethylbenzene*	<0.050	0.050	02/19/2020	ND	1.99	99.4	2.00	2.41	
Total Xylenes*	<0.150	0.150	02/19/2020	ND	5.78	96.3	6.00	2.20	
Total BTEX	<0.300	0.300	02/19/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	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	32.0	16.0	02/20/2020	ND	432	108	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	02/19/2020	ND	182	91.0	200	3.52	
DRO >C10-C28*	<10.0	10.0	02/19/2020	ND	196	98.0	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	02/19/2020	ND					
Surrogate: 1-Chlorooctane	94.4	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	96.7	% 42.2-15	6						

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Analytical Results For:

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

Received: Reported: 02/18/2020

02/21/2020

Project Name: Project Number: SHELL G A ST #2 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

02/18/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: B 11 @ 1' 32.5664032 - 103.2637901 (H000509-10)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2020	ND	1.97	98.6	2.00	1.94	
Toluene*	<0.050	0.050	02/19/2020	ND	2.01	101	2.00	1.29	
Ethylbenzene*	<0.050	0.050	02/19/2020	ND	1.99	99.4	2.00	2.41	
Total Xylenes*	<0.150	0.150	02/19/2020	ND	5.78	96.3	6.00	2.20	
Total BTEX	<0.300	0.300	02/19/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	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	192	16.0	02/20/2020	ND	432	108	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	02/19/2020	ND	182	91.0	200	3.52	
DRO >C10-C28*	<10.0	10.0	02/19/2020	ND	196	98.0	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	02/19/2020	ND					
Surrogate: 1-Chlorooctane	96.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	99.0	% 42.2-15	6						

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Analytical Results For:

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

Received: Reported: 02/18/2020

02/21/2020

Project Name: Project Number: SHELL G A ST #2 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

02/18/2020 Soil

Sampling Type:

Sampling Condition: Sample Received By:

Cool & Intact Tamara Oldaker

Sample ID: B 12 @ 1' 32.5664227 - 103.2637516 (H000509-11)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2020	ND	1.97	98.6	2.00	1.94	
Toluene*	<0.050	0.050	02/19/2020	ND	2.01	101	2.00	1.29	
Ethylbenzene*	<0.050	0.050	02/19/2020	ND	1.99	99.4	2.00	2.41	
Total Xylenes*	<0.150	0.150	02/19/2020	ND	5.78	96.3	6.00	2.20	
Total BTEX	<0.300	0.300	02/19/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 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	1360	16.0	02/20/2020	ND	432	108	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	02/19/2020	ND	182	91.0	200	3.52	
DRO >C10-C28*	<10.0	10.0	02/19/2020	ND	196	98.0	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	02/19/2020	ND					
Surrogate: 1-Chlorooctane	93.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	96.6	% 42.2-15	6						

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Analytical Results For:

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

Received:

02/18/2020

Reported: Project Name: 02/21/2020 SHELL G A ST #2

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

Sampling Date:

02/18/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: B 13 @ 3' 32.5664532 - 103.2639390 (H000509-12)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2020	ND	1.97	98.6	2.00	1.94	
Toluene*	<0.050	0.050	02/19/2020	ND	2.01	101	2.00	1.29	
Ethylbenzene*	<0.050	0.050	02/19/2020	ND	1.99	99.4	2.00	2.41	
Total Xylenes*	<0.150	0.150	02/19/2020	ND	5.78	96.3	6.00	2.20	
Total BTEX	<0.300	0.300	02/19/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 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	384	16.0	02/20/2020	ND	432	108	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	02/19/2020	ND	182	91.0	200	3.52	
DRO >C10-C28*	<10.0	10.0	02/19/2020	ND	196	98.0	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	02/19/2020	ND					
Surrogate: 1-Chlorooctane	95.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	98.4	% 42.2-15	6						

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Celey D. Keine



Analytical Results For:

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

Received: Reported: 02/18/2020

02/21/2020

Project Name: Project Number: SHELL G A ST #2 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

02/18/2020

Sampling Type:

Soil

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

Sample ID: B 15 @ 3' 32.5664693 - 103.2638736 (H000509-13)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2020	ND	1.97	98.6	2.00	1.94	
Toluene*	<0.050	0.050	02/19/2020	ND	2.01	101	2.00	1.29	
Ethylbenzene*	<0.050	0.050	02/19/2020	ND	1.99	99.4	2.00	2.41	
Total Xylenes*	<0.150	0.150	02/19/2020	ND	5.78	96.3	6.00	2.20	
Total BTEX	<0.300	0.300	02/19/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 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	112	16.0	02/20/2020	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/19/2020	ND	182	91.0	200	3.52	
DRO >C10-C28*	<10.0	10.0	02/19/2020	ND	196	98.0	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	02/19/2020	ND					
Surrogate: 1-Chlorooctane	91.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	96.8	% 42.2-15	6						

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Celey D. Keine



Analytical Results For:

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

Received:

02/18/2020

Reported: Project Name: 02/21/2020 SHELL G A ST #2 NONE GIVEN

Project Number: Project Location:

NOT GIVEN

Sampling Date:

02/18/2020

Sampling Type:

Soil

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

Sample ID: B 16 @ 3' 32.5664775 - 103.2638324 (H000509-14)

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	02/19/2020	ND	1.97	98.6	2.00	1.94	
Toluene*	<0.050	0.050	02/19/2020	ND	2.01	101	2.00	1.29	
Ethylbenzene*	<0.050	0.050	02/19/2020	ND	1.99	99.4	2.00	2.41	
Total Xylenes*	<0.150	0.150	02/19/2020	ND	5.78	96.3	6.00	2.20	
Total BTEX	<0.300	0.300	02/19/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	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 OC	RPD	Oualifier

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	S % Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	02/20/2020	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/19/2020	ND	182	91.0	200	3.52	
DRO >C10-C28*	<10.0	10.0	02/19/2020	ND	196	98.0	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	02/19/2020	ND					

Surrogate: 1-Chlorooctane

91.1 %

44.3-144

Surrogate: 1-Chlorooctadecane

95.1 %

42.2-156

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

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

Received:

02/18/2020

Reported: Project Name: 02/21/2020

Project Number:

SHELL G A ST #2 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

02/18/2020

Sampling Type:

Soil

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

Sample ID: B 17 @ 3' 32.5664702 - 103.2638025 (H000509-15)

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	02/19/2020	ND	1.97	98.6	2.00	1.94	
Toluene*	<0.050	0.050	02/19/2020	ND	2.01	101	2.00	1.29	
Ethylbenzene*	<0.050	0.050	02/19/2020	ND	1.99	99.4	2.00	2.41	
Total Xylenes*	<0.150	0.150	02/19/2020	ND	5.78	96.3	6.00	2.20	
Total BTEX	<0.300	0.300	02/19/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID

99.7 %

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	160	16.0	02/20/2020	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/19/2020	ND	182	91.0	200	3.52	
DRO >C10-C28*	<10.0	10.0	02/19/2020	ND	196	98.0	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	02/19/2020	ND					

Surrogate: 1-Chlorooctane

97.3 %

Surrogate: 1-Chlorooctadecane

42.2-156

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Analytical Results For:

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

Received:

02/18/2020

Reported: Project Name: 02/21/2020 SHELL G A ST #2 NONE GIVEN

Project Number: Project Location:

NOT GIVEN

Sampling Date:

02/18/2020

Sampling Type:

Soil

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

Sample ID: B 18 @ 1' 32.5665191 - 103.2639688 (H000509-16)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2020	ND	1.97	98.6	2.00	1.94	
Toluene*	<0.050	0.050	02/19/2020	ND	2.01	101	2.00	1.29	
Ethylbenzene*	<0.050	0.050	02/19/2020	ND	1.99	99.4	2.00	2.41	
Total Xylenes*	<0.150	0.150	02/19/2020	ND	5.78	96.3	6.00	2.20	
Total BTEX	<0.300	0.300	02/19/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 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	208	16.0	02/20/2020	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/19/2020	ND	182	91.0	200	3.52	
DRO >C10-C28*	<10.0	10.0	02/19/2020	ND	196	98.0	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	02/19/2020	ND					

Surrogate: 1-Chlorooctane

88.6 %

44.3-144

Surrogate: 1-Chlorooctadecane

94.7 %

42.2-156

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Analytical Results For:

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

Received:

BTEX 8021B

02/18/2020

Reported: Project Name: 02/21/2020 SHELL G A ST #2

Project Number: Project Location: NONE GIVEN NOT GIVEN

mg/kg

Sampling Date:

02/18/2020

Sampling Type:

Soil

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

Sample ID: B 19 @ 1' 32.5665304 - 103.2639423 (H000509-17)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2020	ND	1.97	98.6	2.00	1.94	
Toluene*	<0.050	0.050	02/19/2020	ND	2.01	101	2.00	1.29	
Ethylbenzene*	<0.050	0.050	02/19/2020	ND	1.99	99.4	2.00	2.41	
Total Xylenes*	<0.150	0.150	02/19/2020	ND	5.78	96.3	6.00	2.20	
Total BTEX	<0.300	0.300	02/19/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/20/2020	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/19/2020	ND	182	91.0	200	3.52	
DRO >C10-C28*	53.6	10.0	02/19/2020	ND	196	98.0	200	2.11	
EXT DRO >C28-C36	21.7	10.0	02/19/2020	ND					

Analyzed By: MS

Surrogate: 1-Chlorooctadecane

90.5 % 98.9 % 44.3-144 42.2-156

Surrogate: 1-Chlorooctane

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Analytical Results For:

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

Received: 02/18/2020 Reported: 02/21/2020

Project Name: SHELL G A ST #2
Project Number: NONE GIVEN

Project Location: NOT GIVEN

BTEX 8021B

Sampling Date: 02/18/2020

Sampling Type: Soil

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

Sample ID: B 20 @ 1' 32.5665386 - 103.2638857 (H000509-18)

mg/kg

DIEX COLLE	97	** 9	Allalyzo	u 5,: 1.0					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2020	ND	1.97	98.6	2.00	1.94	
Toluene*	<0.050	0.050	02/19/2020	ND	2.01	101	2.00	1.29	
Ethylbenzene*	<0.050	0.050	02/19/2020	ND	1.99	99.4	2.00	2.41	
Total Xylenes*	<0.150	0.150	02/19/2020	ND	5.78	96.3	6.00	2.20	
Total BTEX	<0.300	0.300	02/19/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 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	02/20/2020	ND	432	108	400	3.77	
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	02/19/2020	ND	182	91.0	200	3.52	
DRO >C10-C28*	24.9	10.0	02/19/2020	ND	196	98.0	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	02/19/2020	ND					
Surrogate: 1-Chlorooctane	89.0	% 44.3-14	1						

Analyzed By: MS

Surrogate: 1-Chlorooctadecane 94.7 % 42.2-156

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Analytical Results For:

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

Received: Reported:

BTEX 8021B

02/18/2020

Project Name:

02/21/2020 SHELL G A ST #2

Project Number: Project Location: NOT GIVEN

mg/kg

Sampling Date:

02/18/2020

Sampling Type:

Soil

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

Location: NOT GIVEN

Sample ID: B 21 @ 1' 32.5665810 - 103.2639792 (H000509-19)

	9/	9	7	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2020	ND	1.97	98.6	2.00	1.94	
Toluene*	<0.050	0.050	02/19/2020	ND	2.01	101	2.00	1.29	
Ethylbenzene*	<0.050	0.050	02/19/2020	ND	1.99	99.4	2.00	2.41	
Total Xylenes*	<0.150	0.150	02/19/2020	ND	5.78	96.3	6.00	2.20	
Total BTEX	<0.300	0.300	02/19/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/20/2020	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/19/2020	ND	182	91.0	200	3.52	
DRO >C10-C28*	<10.0	10.0	02/19/2020	ND	196	98.0	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	02/19/2020	ND					
Surrogate: 1-Chlorooctane	89.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	93.9	% 42.2-15	6						

Analyzed By: MS

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Analytical Results For:

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

Received: Reported: 02/18/2020

02/21/2020

Project Name: Project Number: Project Location: SHELL G A ST #2 NONE GIVEN

NOT GIVEN

Sampling Date:

Sampling Condition:

Sample Received By:

02/18/2020

Sampling Type: Soil

Cool & Intact

Tamara Oldaker

Sample ID: B 22 @ 1' 32.5665897 - 103.2639380 (H000509-20)

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	02/19/2020	ND	1.97	98.6	2.00	1.94	
Toluene*	<0.050	0.050	02/19/2020	ND	2.01	101	2.00	1.29	
Ethylbenzene*	<0.050	0.050	02/19/2020	ND	1.99	99.4	2.00	2.41	
Total Xylenes*	<0.150	0.150	02/19/2020	ND	5.78	96.3	6.00	2.20	
Total BTEX	<0.300	0.300	02/19/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	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	80.0	16.0	02/20/2020	ND	432	108	400	3.77	
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	02/19/2020	ND	182	91.0	200	3.52	
DRO >C10-C28*	28.6	10.0	02/19/2020	ND	196	98.0	200	2.11	
EXT DRO >C28-C36	13.5	10.0	02/19/2020	ND					
Surrogate: 1-Chlorooctane	90.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	97.6	% 42.2-15	6						

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Analytical Results For:

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

Received: Reported: 02/18/2020

02/21/2020

Project Name: Project Number: SHELL G A ST #2 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

02/18/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: B 23 @ 1' 32.5665600 - 103.2639259 (H000509-21)

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	02/19/2020	ND	1.97	98.6	2.00	1.94	
Toluene*	<0.050	0.050	02/19/2020	ND	2.01	101	2.00	1.29	
Ethylbenzene*	<0.050	0.050	02/19/2020	ND	1.99	99.4	2.00	2.41	
Total Xylenes*	<0.150	0.150	02/19/2020	ND	5.78	96.3	6.00	2.20	
Total BTEX	<0.300	0.300	02/19/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 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	144	16.0	02/20/2020	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/19/2020	ND	182	91.0	200	3.52	
DRO >C10-C28*	19.5	10.0	02/19/2020	ND	196	98.0	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	02/19/2020	ND					
Surrogate: 1-Chlorooctane	95.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	99.3	% 42.2-15	6						

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Analytical Results For:

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

Received: Reported: 02/18/2020

02/21/2020

Project Name: Project Number: SHELL G A ST #2 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date: 02/18/2020

Sampling Type:

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

Soil

Sample ID: B 24 @ 1' 32.5666197 - 103.2639970 (H000509-22)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2020	ND	1.97	98.6	2.00	1.94	
Toluene*	<0.050	0.050	02/19/2020	ND	2.01	101	2.00	1.29	
Ethylbenzene*	< 0.050	0.050	02/19/2020	ND	1.99	99.4	2.00	2.41	
Total Xylenes*	<0.150	0.150	02/19/2020	ND	5.78	96.3	6.00	2.20	
Total BTEX	<0.300	0.300	02/19/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/20/2020	ND	432	108	400	3.77	
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	02/20/2020	ND	182	91.0	200	3.52	
DRO >C10-C28*	<10.0	10.0	02/20/2020	ND	196	98.0	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	02/20/2020	ND					
Surrogate: 1-Chlorooctane	93.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	97.2	% 42.2-15	6						

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Analytical Results For:

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

Received: Reported: 02/18/2020

02/21/2020

Project Name: Project Number: Project Location: SHELL G A ST #2 NONE GIVEN NOT GIVEN Sampling Date:

02/18/2020

Sampling Type:

Soil

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

Sample ID: B 25 @ 1' 32.5666332 - 103.2569356 (H000509-23)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2020	ND	1.97	98.6	2.00	1.94	
Toluene*	<0.050	0.050	02/19/2020	ND	2.01	101	2.00	1.29	
Ethylbenzene*	<0.050	0.050	02/19/2020	ND	1.99	99.4	2.00	2.41	
Total Xylenes*	<0.150	0.150	02/19/2020	ND	5.78	96.3	6.00	2.20	
Total BTEX	<0.300	0.300	02/19/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID

99.4 %

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	48.0	16.0	02/20/2020	ND	432	108	400	3.77	
TPH 8015M	mg	mg/kg Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2020	ND	182	91.0	200	3.52	
DRO >C10-C28*	84.0	10.0	02/20/2020	ND	196	98.0	200	2.11	
EXT DRO >C28-C36	58.2	10.0	02/20/2020	ND					

Surrogate: 1-Chlorooctane

93.1 %

44.3-144

Surrogate: 1-Chlorooctadecane

99.6 %

42.2-156

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Analytical Results For:

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

Received: Reported: 02/18/2020

02/21/2020

Project Name: Project Number: SHELL G A ST #2 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: 02/18/2020 Soil

Cool & Intact Tamara Oldaker

Sample ID: B 26 @ 1' 32.5666999 - 103.2641519 (H000509-24)

BTEX 8021B	mg/kg		Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/19/2020	ND	1.97	98.6	2.00	1.94		
Toluene*	<0.050	0.050	02/19/2020	ND	2.01	101	2.00	1.29		
Ethylbenzene*	<0.050	0.050	02/19/2020	ND	1.99	99.4	2.00	2.41		
Total Xylenes*	<0.150	0.150	02/19/2020	ND	5.78	96.3	6.00	2.20		
Total BTEX	<0.300	0.300	02/19/2020	ND						
Surrogate: 4-Bromofluorobenzene (PID	100 %	6 73.3-12	9							
Chloride, SM4500Cl-B	ma/	ka	Analyze	d Bv: AC						

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	02/20/2020	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2020	ND	200	99.9	200	0.654	
DRO >C10-C28*	<10.0	10.0	02/20/2020	ND	215	107	200	1.77	
EXT DRO >C28-C36	<10.0	10.0	02/20/2020	ND					

Surrogate: 1-Chlorooctane

87.7 %

44.3-144

Surrogate: 1-Chlorooctadecane

91.3 %

42.2-156

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Analytical Results For:

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

Received: Reported: 02/18/2020

02/21/2020

Project Name: Project Number: SHELL G A ST #2 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

Sampling Condition:

02/18/2020

Sampling Type:

Soil Cool & Intact

Sample Received By: Tamara Oldaker

Sample ID: B 27 @ 1' 32.5666787 - 103.2640775 (H000509-25)

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	02/19/2020	ND	2.02	101	2.00	0.963	
Toluene*	<0.050	0.050	02/19/2020	ND	2.03	101	2.00	1.67	
Ethylbenzene*	<0.050	0.050	02/19/2020	ND	2.03	101	2.00	1.65	
Total Xylenes*	<0.150	0.150	02/19/2020	ND	5.88	97.9	6.00	1.61	
Total BTEX	<0.300	0.300	02/19/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 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	02/20/2020	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2020	ND	200	99.9	200	0.654	
DRO >C10-C28*	<10.0	10.0	02/20/2020	ND	215	107	200	1.77	
EXT DRO >C28-C36	<10.0	10.0	02/20/2020	ND					
Surrogate: 1-Chlorooctane	86.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	91.6	% 42.2-15	6						

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Analytical Results For:

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

Received:

02/18/2020

Reported: Project Name: 02/21/2020 SHELL G A ST #2

Project Number: Project Location: NONE GIVEN

Sampling Date:

02/18/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: B 28 @ 1' 32.5667022 - 103.2640332 (H000509-26)

Benzene* <0.050 0.050 02/19/2020 ND 2.02 Toluene* <0.050 0.050 02/19/2020 ND 2.03	% Recovery 101 101 101	True Value QC 2.00 2.00	RPD 0.963 1.67	Qualifier
Toluene* <0.050 0.050 02/19/2020 ND 2.03	101			
• •		2.00	1 67	
	101		1.07	
Ethylbenzene* <0.050 0.050 02/19/2020 ND 2.03		2.00	1.65	
Total Xylenes* <0.150 0.150 02/19/2020 ND 5.88	97.9	6.00	1.61	
Total BTEX <0.300 0.300 02/19/2020 ND				
Surrogate: 4-Bromofluorobenzene (PID 99.0 % 73.3-129				
Chloride, SM4500Cl-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 02/20/2020 ND 432	108	400	3.77	
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 02/20/2020 ND 200	99.9	200	0.654	
DRO >C10-C28* <10.0 10.0 02/20/2020 ND 215	107	200	1.77	
EXT DRO >C28-C36 <10.0 10.0 02/20/2020 ND				
Surrogate: 1-Chlorooctane 89.5 % 44.3-144				
Surrogate: 1-Chlorooctadecane 94.4 % 42.2-156				

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Analytical Results For:

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

Received:

02/18/2020

Reported: Project Name: 02/21/2020 SHELL G A ST #2

Project Number: Project Location: NONE GIVEN

Sampling Date:

02/18/2020

Sampling Type:

Soil

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

Sample ID: B 29 @ 1' 32.5667095 - 103.2640124 (H000509-27)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2020	ND	2.02	101	2.00	0.963	
Toluene*	<0.050	0.050	02/19/2020	ND	2.03	101	2.00	1.67	
Ethylbenzene*	<0.050	0.050	02/19/2020	ND	2.03	101	2.00	1.65	
Total Xylenes*	<0.150	0.150	02/19/2020	ND	5.88	97.9	6.00	1.61	

ND

02/19/2020

Surrogate: 4-Bromofluorobenzene (PID

Total BTEX

100 %

< 0.300

73.3-129

0.300

Chloride, SM4500CI-B	mg	mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/20/2020	ND	432	108	400	3.77	
H 8015M mg/kg		/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	02/20/2020	ND	192	96.0	200	1.37	
DRO >C10-C28*	<10.0	10.0	02/20/2020	ND	177	88.5	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	02/20/2020	ND					

Surrogate: 1-Chlorooctane

96.5 %

44.3-144

Surrogate: 1-Chlorooctadecane

98.8 %

42.2-156

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Analytical Results For:

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

Received: Reported: 02/18/2020

02/21/2020

Project Name: Project Number: SHELL G A ST #2 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

02/18/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: B 30 @ 1' 32.5667090 - 103.2639889 (H000509-28)

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	02/19/2020	ND	2.02	101	2.00	0.963	
Toluene*	<0.050	0.050	02/19/2020	ND	2.03	101	2.00	1.67	
Ethylbenzene*	<0.050	0.050	02/19/2020	ND	2.03	101	2.00	1.65	
Total Xylenes*	<0.150	0.150	02/19/2020	ND	5.88	97.9	6.00	1.61	
Total BTEX	<0.300	0.300	02/19/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	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	48.0	16.0	02/20/2020	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2020	ND	192	96.0	200	1.37	
DRO >C10-C28*	<10.0	10.0	02/20/2020	ND	177	88.5	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	02/20/2020	ND					
Surrogate: 1-Chlorooctane	93.2	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	96.1	% 42.2-15	6						

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Analytical Results For:

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

Received:

02/18/2020

Reported: Project Name: 02/21/2020 SHELL G A ST #2

Project Number:

NONE GIVEN

NOT GIVEN

Sampling Date:

02/18/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

ceived By: Tamara Oldaker

Project Location:

Sample ID: B 31 @ 1' 32.5667169 - 103.2639581 (H000509-29)

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	02/19/2020	ND	2.02	101	2.00	0.963	
Toluene*	<0.050	0.050	02/19/2020	ND	2.03	101	2.00	1.67	
Ethylbenzene*	<0.050	0.050	02/19/2020	ND	2.03	101	2.00	1.65	
Total Xylenes*	<0.150	0.150	02/19/2020	ND	5.88	97.9	6.00	1.61	
Total BTEX	<0.300	0.300	02/19/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/20/2020	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2020	ND	192	96.0	200	1.37	
DRO >C10-C28*	<10.0	10.0	02/20/2020	ND	177	88.5	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	02/20/2020	ND					
Surrogate: 1-Chlorooctane	92.5 9	6 44.3-14	4						
Surrogate: 1-Chlorooctadecane	97.0 9	6 42.2-15	6						

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Analytical Results For:

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

Received: Reported:

BTEX 8021B

02/18/2020

02/21/2020

Project Name: Project Number: SHELL G A ST #2 NONE GIVEN

Project Location:

NONE GIVEN

mg/kg

Sampling Date:

02/18/2020

Sampling Type:

Soil

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

Sample ID: B 32 @ 1' 32.5667550 - 103.2641190 (H000509-30)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2020	ND	2.02	101	2.00	0.963	
Toluene*	<0.050	0.050	02/19/2020	ND	2.03	101	2.00	1.67	
Ethylbenzene*	<0.050	0.050	02/19/2020	ND	2.03	101	2.00	1.65	
Total Xylenes*	<0.150	0.150	02/19/2020	ND	5.88	97.9	6.00	1.61	
Total BTEX	<0.300	0.300	02/19/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	73.3-12	9						
		_							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyze	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
·			-	-	BS 432	% Recovery	True Value QC	RPD 3.77	Qualifier
Analyte	Result	Reporting Limit	Analyzed 02/20/2020	Method Blank		,	•		Qualifier
Analyte Chloride	Result	Reporting Limit	Analyzed 02/20/2020	Method Blank		,	•		Qualifier Qualifier
Analyte Chloride TPH 8015M	Result 96.0 mg/	Reporting Limit 16.0	Analyzed 02/20/2020 Analyze	Method Blank ND d By: MS	432	108	400	3.77	
Analyte Chloride TPH 8015M Analyte	Result 96.0 mg/	Reporting Limit 16.0 kg Reporting Limit	Analyzed 02/20/2020 Analyze	Method Blank ND d By: MS Method Blank	432 BS	108 % Recovery	400 True Value QC	3.77 RPD	

Analyzed By: MS

Surrogate: 1-Chlorooctadecane

Surrogate: 1-Chlorooctane

86.6 %

83.4 %

44.3-144 42.2-156

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Analytical Results For:

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

Received: Reported: 02/18/2020

02/21/2020

Project Name: Project Number: Project Location: SHELL G A ST #2 NONE GIVEN

NOT GIVEN

Sampling Date:

02/18/2020 Sampling Type: Soil

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

Sample ID: B 33 @ 1' 32.5667567 - 103.2646785 (H000509-31)

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	02/20/2020	ND	2.02	101	2.00	0.963	
Toluene*	<0.050	0.050	02/20/2020	ND	2.03	101	2.00	1.67	
Ethylbenzene*	<0.050	0.050	02/20/2020	ND	2.03	101	2.00	1.65	
Total Xylenes*	<0.150	0.150	02/20/2020	ND	5.88	97.9	6.00	1.61	
Total BTEX	<0.300	0.300	02/20/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID

99.2 %

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	48.0	16.0	02/20/2020	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2020	ND	192	96.0	200	1.37	
DRO >C10-C28*	<10.0	10.0	02/20/2020	ND	177	88.5	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	02/20/2020	ND					

Surrogate: 1-Chlorooctane

93.4 %

44.3-144

Surrogate: 1-Chlorooctadecane

94.6 %

42.2-156

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Analytical Results For:

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

Received: Reported: 02/18/2020

02/21/2020

Project Name: Project Number: SHELL G A ST #2 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

02/18/2020

Sampling Type:

Soil

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

Sample ID: B 34 @ 1' 32.5667646 - 103.2640359 (H000509-32)

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	02/20/2020	ND	2.02	101	2.00	0.963	
Toluene*	<0.050	0.050	02/20/2020	ND	2.03	101	2.00	1.67	
Ethylbenzene*	<0.050	0.050	02/20/2020	ND	2.03	101	2.00	1.65	
Total Xylenes*	<0.150	0.150	02/20/2020	ND	5.88	97.9	6.00	1.61	
Total BTEX	<0.300	0.300	02/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
48.0	16.0	02/20/2020	ND	432	108	400	3.77	
mg,	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	02/20/2020	ND	192	96.0	200	1.37	
<10.0	10.0	02/20/2020	ND	177	88.5	200	2.30	
<10.0	10.0	02/20/2020	ND					
	48.0 mg, Result <10.0 <10.0	### AB.0 16.0 16.0	48.0 16.0 02/20/2020 mg/kg Analyze Result Reporting Limit Analyzed <10.0	48.0 16.0 02/20/2020 ND mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank <10.0	48.0 16.0 02/20/2020 ND 432 mg/kg Analyzed By: MS BS Result Reporting Limit Analyzed Method Blank BS <10.0	48.0 16.0 02/20/2020 ND 432 108 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery <10.0	48.0 16.0 02/20/2020 ND 432 108 400 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <10.0	48.0 16.0 02/20/2020 ND 432 108 400 3.77 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <10.0

Surrogate: 1-Chlorooctane

92.9 %

44.3-144

Surrogate: 1-Chlorooctadecane

94.6 %

42.2-156

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Analytical Results For:

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

Received: Reported: 02/18/2020

02/21/2020

Project Name: Project Number: SHELL G A ST #2 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

02/18/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: B 35 @ 1' 32.5667622 - 103.2639799 (H000509-33)

Benzene* <0.050 0.050 0.02/20/2020 ND 2.02 101 2.00 0.96 Toluene* <0.050 0.050 0.050 0.02/20/2020 ND 2.03 101 2.00 1.65 Ethylbenzene* <0.050 0.050 0.050 0.02/20/2020 ND 2.03 101 2.00 1.65 Total Xylenes* <0.150 0.150 0.02/20/2020 ND 5.88 97.9 6.00 1.65 Total BTEX <0.300 0.300 0.02/20/2020 ND Surrogate: 4-Bromofluorobenzene (PID 99.5 % 73.3-129 Total SM4500CI-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPC Chloride 32.0 16.0 0.02/20/2020 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 RPC GRO C6-C10* <10.0 10.0 0.02/20/2020 ND 192 96.0 200 1.35 GRO C6-C10* <10.0 10.0 0.02/20/2020 ND 192 96.0 200 1.35 Contact	BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Toluene* < 0.050	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Ethylbenzene* <0.050 0.050 02/20/2020 ND 2.03 101 2.00 1.65 Total Xylenes* <0.150 0.150 02/20/2020 ND 5.88 97.9 6.00 1.65 Total BTEX <0.300 0.300 02/20/2020 ND Surrogate: 4-Bromofluorobenzene (PID 99.5 % 73.3-129 Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPC Chloride 32.0 16.0 02/20/2020 ND 416 104 400 0.00 TPH 8015M mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPC GRO C6-C10* <10.0 10.0 02/20/2020 ND 192 96.0 200 1.35 DRO >C10-C28* <10.0 10.0 02/20/2020 ND 177 88.5 200 2.36 EXT DRO >C28-C36 <10.0 10.0 02/20/2020 ND Surrogate: 1-Chlorooctane 93.0 % 44.3-144	Benzene*	<0.050	0.050	02/20/2020	ND	2.02	101	2.00	0.963	
Total Xylenes* <0.150 0.150 02/20/2020 ND 5.88 97.9 6.00 1.61	Toluene*	<0.050	0.050	02/20/2020	ND	2.03	101	2.00	1.67	
Total BTEX	Ethylbenzene*	<0.050	0.050	02/20/2020	ND	2.03	101	2.00	1.65	
Surrogate: 4-Bromofluorobenzene (PID 99.5 % 73.3-129 Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPC Chloride 32.0 16.0 02/20/2020 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 RPC GRO C6-C10* <10.0	Total Xylenes*	<0.150	0.150	02/20/2020	ND	5.88	97.9	6.00	1.61	
Chloride, SM4500Cl-B mg/kg Analyzed By: AC Analyte Result Reporting Limit Reporting Limit Analyzed Method Blank BS Recovery True Value QC RPC ND Analyzed By: MS Chloride 32.0 16.0 02/20/2020 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 RPC GRO C6-C10* <10.0 10.0 02/20/2020 ND 192 96.0 200 1.35	Total BTEX	<0.300	0.300	02/20/2020	ND					
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPC Chloride 32.0 16.0 02/20/2020 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 RPC GRO C6-C10* <10.0 10.0 02/20/2020 ND 192 96.0 200 1.33 DRO >C10-C28* <10.0 10.0 02/20/2020 ND 177 88.5 200 2.30 EXT DRO >C28-C36 <10.0 10.0 02/20/2020 ND Surrogate: 1-Chlorooctane 93.0 % 44.3-144	Surrogate: 4-Bromofluorobenzene (PID	99.5	% 73.3-12	19						
Chloride 32.0 16.0 02/20/2020 ND 416 104 400 0.00 TPH 8015M mg/kg Analyzed By: MS Method Blank BS % Recovery True Value QC RPD GRO C6-C10* <10.0	Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
TPH 8015M mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD GRO C6-C10* <10.0	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD GRO C6-C10* <10.0 10.0 02/20/2020 ND 192 96.0 200 1.37 DRO >C10-C28* <10.0 10.0 02/20/2020 ND 177 88.5 200 2.30 EXT DRO >C28-C36 <10.0 10.0 02/20/2020 ND Surrogate: 1-Chlorooctane 93.0 % 44.3-144	Chloride	32.0	16.0	02/20/2020	ND	416	104	400	0.00	
GRO C6-C10* <10.0 10.0 02/20/2020 ND 192 96.0 200 1.37 DRO >C10-C28* <10.0 10.0 02/20/2020 ND 177 88.5 200 2.30 EXT DRO >C28-C36 <10.0 10.0 02/20/2020 ND Surrogate: 1-Chlorooctane 93.0% 44.3-144	TPH 8015M	mg	/kg	Analyze	ed By: MS					
DRO >C10-C28*	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
EXT DRO >C28-C36 <10.0 10.0 02/20/2020 ND Surrogate: 1-Chlorooctane 93.0 % 44.3-144	GRO C6-C10*	<10.0	10.0	02/20/2020	ND	192	96.0	200	1.37	
Surrogate: 1-Chlorooctane 93.0 % 44.3-144	DRO >C10-C28*	<10.0	10.0	02/20/2020	ND	177	88.5	200	2.30	
	EXT DRO >C28-C36	<10.0	10.0	02/20/2020	ND					
Surrogate: 1-Chlorooctadecane 97.0 % 42.2-156	Surrogate: 1-Chlorooctane	93.0	% 44.3-14	14						
	Surrogate: 1-Chlorooctadecane	97.0	% 42.2-15	6						

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Analytical Results For:

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

Received: Reported: 02/18/2020

02/21/2020

Project Name: Project Number: SHELL G A ST #2 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

02/18/2020

Sampling Type:

Sampling Condition: Sample Received By: Soil Cool & Intact

Tamara Oldaker

Sample ID: B 36 @ 1' 32.5667739 - 103.2639484 (H000509-34)

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	02/20/2020	ND	2.02	101	2.00	0.963	
Toluene*	<0.050	0.050	02/20/2020	ND	2.03	101	2.00	1.67	
Ethylbenzene*	<0.050	0.050	02/20/2020	ND	2.03	101	2.00	1.65	
Total Xylenes*	<0.150	0.150	02/20/2020	ND	5.88	97.9	6.00	1.61	
Total BTEX	<0.300	0.300	02/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/20/2020	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	02/20/2020	ND	192	96.0	200	1.37	
DRO >C10-C28*	59.2	10.0	02/20/2020	ND	177	88.5	200	2.30	
EXT DRO >C28-C36	52.3	10.0	02/20/2020	ND					
Surrogate: 1-Chlorooctane	89.1	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	98.5	% 42.2-15	6						

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Analytical Results For:

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

Received:

02/18/2020

Reported: Project Name: 02/21/2020 SHELL G A ST #2

Project Number: Project Location:

NONE GIVEN NOT GIVEN Sampling Date:

02/18/2020

Sampling Type:

Soil

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

Sample ID: B 37 @ 1' 32.5667915 - 103.2640741 (H000509-35)

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	02/20/2020	ND	2.02	101	2.00	0.963	
Toluene*	<0.050	0.050	02/20/2020	ND	2.03	101	2.00	1.67	
Ethylbenzene*	<0.050	0.050	02/20/2020	ND	2.03	101	2.00	1.65	
Total Xylenes*	<0.150	0.150	02/20/2020	ND	5.88	97.9	6.00	1.61	
Total BTEX	<0.300	0.300	02/20/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID

99.9 %

73.3-129

mg/kg		Analyzed By: AC						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
32.0	16.0	02/20/2020	ND	416	104	400	0.00	
H 8015M mg/kg		Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	02/20/2020	ND	192	96.0	200	1.37	
<10.0	10.0	02/20/2020	ND	177	88.5	200	2.30	
<10.0	10.0	02/20/2020	ND					
	Result 32.0 mg, Result <10.0 <10.0	Result Reporting Limit 32.0 16.0 mg/kg Result Reporting Limit <10.0 10.0 <10.0 10.0	Result Reporting Limit Analyzed 32.0 16.0 02/20/2020 mg/kg Analyze Result Reporting Limit Analyzed <10.0	Result Reporting Limit Analyzed Method Blank 32.0 16.0 02/20/2020 ND mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank <10.0	Result Reporting Limit Analyzed Method Blank BS 32.0 16.0 02/20/2020 ND 416 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery 32.0 16.0 02/20/2020 ND 416 104 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 32.0 16.0 02/20/2020 ND 416 104 400 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 32.0 16.0 02/20/2020 ND 416 104 400 0.00 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <10.0

Surrogate: 1-Chlorooctane

87.9 %

44.3-144

Surrogate: 1-Chlorooctadecane

90.9 %

42.2-156

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Analytical Results For:

APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To: (575) 393-2432

Received:

RTFY 8021R

02/18/2020

Sampling Date:

02/18/2020

Reported:

02/21/2020

Sampling Type:

Soil

Project Name:

SHELL G A ST #2 NONE GIVEN

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

Project Number: Project Location:

NOT GIVEN

ma/ka

Sample ID: B 38 @ 1' 32.5668025 - 103.2640537 (H000509-36)

BIEX 8021B	mg/	кg	Anaiyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2020	ND	2.02	101	2.00	0.963	
Toluene*	<0.050	0.050	02/20/2020	ND	2.03	101	2.00	1.67	
Ethylbenzene*	<0.050	0.050	02/20/2020	ND	2.03	101	2.00	1.65	
Total Xylenes*	<0.150	0.150	02/20/2020	ND	5.88	97.9	6.00	1.61	
Total BTEX	<0.300	0.300	02/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	02/20/2020	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	02/20/2020	ND	192	96.0	200	1.37	
DRO >C10-C28*	<10.0	10.0	02/20/2020	ND	177	88.5	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	02/20/2020	ND					
Surrogate: 1-Chlorooctane	95.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	97.6	% 42.2-15	6						

Analyzed Ry: MS

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Analytical Results For:

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

Received:

02/18/2020

Sampling Date:

02/18/2020

Reported:

02/21/2020

Sampling Type:

Sample Received By:

Soil

Project Name:

SHELL G A ST #2 NONE GIVEN

Sampling Condition:

Cool & Intact Tamara Oldaker

Project Number: Project Location:

NOT GIVEN

Sample ID: B 39 @ 1' 32.5668129 - 103.2640245 (H000509-37)

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	02/20/2020	ND	2.02	101	2.00	0.963	
Toluene*	<0.050	0.050	02/20/2020	ND	2.03	101	2.00	1.67	
Ethylbenzene*	<0.050	0.050	02/20/2020	ND	2.03	101	2.00	1.65	
Total Xylenes*	<0.150	0.150	02/20/2020	ND	5.88	97.9	6.00	1.61	
Total BTEX	<0.300	0.300	02/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	02/20/2020	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	02/20/2020	ND	192	96.0	200	1.37	
DRO >C10-C28*	<10.0	10.0	02/20/2020	ND	177	88.5	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	02/20/2020	ND					
Surrogate: 1-Chlorooctane	94.9	% 44.3-14	4						
Summanda I Chlono atadasana	00.2	0/ 12.2.15							

Surrogate: 1-Chlorooctadecane

98.3 %

42.2-156

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Analytical Results For:

APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To: (575) 393-2432

Received: Reported: 02/18/2020

02/21/2020

Project Name: Project Number: SHELL G A ST #2 NONE GIVEN

Project Location:

NOT GIVEN

100 %

42.2-156

Sampling Date: 02/18/2020

Sampling Type: Soil

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

Sample ID: B 40 @ 1' 32.5668432 - 103.2639675 (H000509-38)

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	02/20/2020	ND	2.02	101	2.00	0.963	
Toluene*	<0.050	0.050	02/20/2020	ND	2.03	101	2.00	1.67	
Ethylbenzene*	<0.050	0.050	02/20/2020	ND	2.03	101	2.00	1.65	
Total Xylenes*	<0.150	0.150	02/20/2020	ND	5.88	97.9	6.00	1.61	
Total BTEX	<0.300	0.300	02/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/20/2020	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	02/20/2020	ND	192	96.0	200	1.37	
DRO >C10-C28*	23.6	10.0	02/20/2020	ND	177	88.5	200	2.30	
EXT DRO >C28-C36	17.5	10.0	02/20/2020	ND					
Surrogate: 1-Chlorooctane	96.0	% 44.3-14	4						

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Surrogate: 1-Chlorooctadecane

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Analytical Results For:

APACHE CORP - HOBBS JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To: (575) 393-2432

Received:

BTEX 8021B

02/18/2020

Sampling Date:

02/18/2020

Reported:

02/21/2020

Sampling Type:

Soil

Project Name:

SHELL G A ST #2

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

Project Number:

NONE GIVEN

mg/kg

J

Project Location:

Sample ID: B 41 @ 1' 32.5663843 - 103.2636262 (H000509-39)

	9,	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2020	ND	2.02	101	2.00	0.963	
Toluene*	<0.050	0.050	02/20/2020	ND	2.03	101	2.00	1.67	
Ethylbenzene*	<0.050	0.050	02/20/2020	ND	2.03	101	2.00	1.65	
Total Xylenes*	<0.150	0.150	02/20/2020	ND	5.88	97.9	6.00	1.61	
Total BTEX	<0.300	0.300	02/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/20/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2020	ND	192	96.0	200	1.37	
DRO >C10-C28*	10.7	10.0	02/20/2020	ND	177	88.5	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	02/20/2020	ND					
Surrogate: 1-Chlorooctane	96.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	99.5	% 42.2-15	6						

Analyzed By: MS

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Analytical Results For:

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

Received: Reported: 02/18/2020

02/21/2020

Project Name: Project Number: SHELL G A ST #2 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

02/18/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: B 42 @ 3" 32.5663518 - 103.2635259 (H000509-40)

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	02/20/2020	ND	2.02	101	2.00	0.963	
Toluene*	<0.050	0.050	02/20/2020	ND	2.03	101	2.00	1.67	
Ethylbenzene*	<0.050	0.050	02/20/2020	ND	2.03	101	2.00	1.65	
Total Xylenes*	<0.150	0.150	02/20/2020	ND	5.88	97.9	6.00	1.61	
Total BTEX	<0.300	0.300	02/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	02/20/2020	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	02/20/2020	ND	192	96.0	200	1.37	
DRO >C10-C28*	<10.0	10.0	02/20/2020	ND	177	88.5	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	02/20/2020	ND					
Surrogate: 1-Chlorooctane	87.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	89.2	% 42.2-15	6						

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Analytical Results For:

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

Received: Reported: 02/18/2020 02/21/2020

Project Name: Project Number: Project Location: SHELL G A ST #2 NONE GIVEN **NOT GIVEN**

Sampling Date:

02/18/2020

Sampling Type:

Soil Cool & Intact

Sampling Condition: Sample Received By:

Tamara Oldaker

Sample ID: B 43 @ 3" 32.5663481 - 103.2634049 (H000509-41)

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	02/20/2020	ND	2.02	101	2.00	0.963	
Toluene*	<0.050	0.050	02/20/2020	ND	2.03	101	2.00	1.67	
Ethylbenzene*	<0.050	0.050	02/20/2020	ND	2.03	101	2.00	1.65	
Total Xylenes*	<0.150	0.150	02/20/2020	ND	5.88	97.9	6.00	1.61	
Total BTEX	<0.300	0.300	02/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 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	560	16.0	02/20/2020	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	02/20/2020	ND	192	96.0	200	1.37	
DRO >C10-C28*	<10.0	10.0	02/20/2020	ND	177	88.5	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	02/20/2020	ND					
Surrogate: 1-Chlorooctane	71.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	72.4	% 42.2-15	6						

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Analytical Results For:

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

Received: Reported: 02/18/2020

02/21/2020

Project Name: Project Number: SHELL G A ST #2 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

02/18/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: B 44 @ 1' 32.5663377 - 103.2632979 (H000509-42)

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	02/20/2020	ND	2.02	101	2.00	0.963	
Toluene*	<0.050	0.050	02/20/2020	ND	2.03	101	2.00	1.67	
Ethylbenzene*	<0.050	0.050	02/20/2020	ND	2.03	101	2.00	1.65	
Total Xylenes*	<0.150	0.150	02/20/2020	ND	5.88	97.9	6.00	1.61	
Total BTEX	<0.300	0.300	02/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	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	32.0	16.0	02/20/2020	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	02/20/2020	ND	192	96.0	200	1.37	
DRO >C10-C28*	<10.0	10.0	02/20/2020	ND	177	88.5	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	02/20/2020	ND					
Surrogate: 1-Chlorooctane	90.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	93.1	% 42.2-15	6						

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Celeg D. Keene



Analytical Results For:

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

Received:

02/18/2020

Reported: Project Name: 02/21/2020 SHELL G A ST #2

Project Number: Project Location:

NONE GIVEN

Sampling Date:

02/18/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: B 45 @ 1' 32.5663334 - 103.2632191 (H000509-43)

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	02/20/2020	ND	1.97	98.5	2.00	6.41	
Toluene*	<0.050	0.050	02/20/2020	ND	1.99	99.5	2.00	6.97	
Ethylbenzene*	<0.050	0.050	02/20/2020	ND	2.01	100	2.00	6.77	
Total Xylenes*	<0.150	0.150	02/20/2020	ND	5.85	97.5	6.00	6.93	
Total BTEX	<0.300	0.300	02/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	02/20/2020	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	02/20/2020	ND	192	96.0	200	1.37	
DRO >C10-C28*	33.3	10.0	02/20/2020	ND	177	88.5	200	2.30	
EXT DRO >C28-C36	19.8	10.0	02/20/2020	ND					
Surrogate: 1-Chlorooctane	92.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	97.2	% 42.2-15	6						

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Analytical Results For:

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

Received: Reported: 02/18/2020

02/21/2020

Project Name: Project Number: Project Location: SHELL G A ST #2 NONE GIVEN

NOT GIVEN

Sampling Date: 02/18/2020

Sampling Type: Soil

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

Sample ID: B 46 @ 1' 32.5663286 - 103.2631917 (H000509-44)

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	02/20/2020	ND	1.97	98.5	2.00	6.41	
Toluene*	<0.050	0.050	02/20/2020	ND	1.99	99.5	2.00	6.97	
Ethylbenzene*	<0.050	0.050	02/20/2020	ND	2.01	100	2.00	6.77	
Total Xylenes*	<0.150	0.150	02/20/2020	ND	5.85	97.5	6.00	6.93	
Total BTEX	<0.300	0.300	02/20/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 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	02/20/2020	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	02/20/2020	ND	192	96.0	200	1.37	
DRO >C10-C28*	<10.0	10.0	02/20/2020	ND	177	88.5	200	2.30	
EXT DRO >C28-C36	<10.0	10.0	02/20/2020	ND					
Surrogate: 1-Chlorooctane	97.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	99.8	% 42.2-15	6						

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Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Observed Temp. °C
Corrected Temp. °C

Sample Condition
Cool Intact
Yes Yes
No No

CHECKED BY:
(Initials)

Turnaround Time:

Standard Rush

Time:

Received By:

REMARKS:

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Per Le		B/LL TO	ANA	ANALYSIS REQUEST
Project Manager:	Se Haron		P.O. #:		
Address:			Company:		
city: Llobbs	State: /O/M	State: NM Zip: 88240	Attn:		
Phone #:	Fax #:		Address:		
Project #:	Project Owner:		City:		
Project Name:			State: Zip:		
Project Location: S	Shell GAS+ #2		Phone #:		
Sampler Name:	+0		Fax #:		
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	LING	
		RS TER		PH (
Lab I.D.	Sample I.D.	(G)RAB OR (C) # CONTAINER GROUNDWAT WASTEWATE SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	C/ Ext TP BTEX	
Ble	Ble 3' 32.5663210	6-1	1 2/2	12:04	
_	-103.2657842				
2 132	132031 32566 \$3490	1		12:08	
3/3 3	0 3 32.5663543		,	12:10	
	-103.2639011				
hB 1	B4@1'32.5663558	2		10. CO.	
	703.263 8314				
5 Bs	135,01:32.566368	C 1 1	1 '	12:14	
	-103.263 7941			<i>1-</i> 1	
PLEASE NOTE: Liability and Damac analyses. All claims including those is service. In no event shall Cardinal be- effiliates or successors arising out of	PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the nanalyses, All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completed in service. In one event shall Cardinal be liable for incidental or consequential descenses, including without limitation, business interruptions, loss often on some of profits incurred by client, to substitute the cardinal be liable for incidental or consequential expenses, including without limitation, business interruptions, loss often or to service the contract of the profit and the profit and the cardinal service.	ny claim arising whether based in contract deemed waived unless made in writing and without limitation, business interruptions, I ardinal repardless of whether such claim	t or tort, shall be limited to the amount paid d received by Cardinal within 30 days after loss of use, or loss of profits incurred by cl	I by the client for the completion of the applicable lient. It is subsidiaries.	
Relinquished By:	Relinguished By: Date: Received By: Werbal Res	Received By:	of process about any or any angert outcome	Verbal Result: ☐ Yes ☐ No Add'i	Add'l Phone #:
helisah	. ~'			All Kesults are emailed. Flease provide Email address:	mail address:

Thermometer ID #87
Correction Factor +6.4 °C

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

Time:

Received By:

REMARKS:

2 mesi

Rusults

15/42

Time:

Sampler - UPS - Bus - Other:

Observed Temp. °C
3,8°C
Corrected Temp. °C

Sample Condition
Cool Intact
Yes Yes
No No

CHECKED BY: (Initials)

Thermometer ID #97 Correction Factor + 0.4°C

Turnaround Time:

Standard Rush

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

Yes Yes
No Corrected Temp. °C

Delivered By: (Circle One)

Relinquished By:

analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use of loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is paged upon any of the above stated reasons or otherwise.

Received By:

All Results are emailed. Please provide Email address:

erbal Result:

□ Yes

□ No Add'l Phone #:

CARDINAL Laboratories

S

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: & Book		びドトラ	ANALYSIS REQUEST
Project Manager: Self Boom	P.O. #:		- 1
Address:	Company:	ıy:	
city: Hobbs state:	State: NMZip: 88240 Attn:		
Phone #: Fax #:	Address:	94	
Project #: Project Owner:	wner: City:		
Project Name:	State:	Zip:	
Project Location: Shell C. # ST #2	#2 Phone #:	7.1	
Sampler Name:	Fax #:		
FOR LAB USE ONLY	MATRIX PRESERV	SERV. SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL	OTHER:	EXT TPLI
6 Blee 1 32.5663815		2/18 12/14	
-103.2637576			
7 B701'32.5663526 ~103.2637/94	, C 1	12:16	
8 13403' 32.566400 -103.2639007	7	1 2:18	
9 13/60 6' 32.544 3930	30 (1 1	1 (12:30	
10 BILO 1 32.566032	C	12:22	
	ementy for any claim arising whether based in contract or bot shall be limited to the amount baid by the client for the	limited to the amount paid by the client for the	

Time's 144

Received By:

REMARKS:

Emen

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

Observed Temp. °C 3,8°C Corrected Temp. °C

Sample Condition
Cool Intact
Yes Yes
No No

CHECKED BY:
(Initials)

Turnaround Time:

Standard Rush

Thermometer ID #97
Correction Factor +8:4°C # 113

Time:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

All Results are emailed. Please provide Email address:	are emailed. Plea	All Results		7		3)
□ No Add'l Phone #:	sult: Yes [Verbal Result:	1	Received By:	Date: Re	d By:	Relinquished By:
	ies.	ofits incurred by client, its subsidial above stated reasons or otherwise	is based upon any of th	regardless of whether such claim	service. In no event shall Cardinal be liable for incidental or consequental damages, including without imitation, business interruptions, loss of use. Prioss of profits incurred by client, its substitanes affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	shall Cardinal be liable for ors arising out of or related	service. In no event affiliates or successo
	trie le applicable	o the amount paid by the client for thin 30 days after completion of the	d received by Cardinal w	waived unless made in writing an	PLEASE NOTE: Labring and paringges. Cerdinal's liability and clients excusive reniety for any claim arising whether based in contract or for, shall be limited to the amount pad by the client for me arranges. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Caparial within 30 days after completion of the applicable	including those for negligi	analyses, All claims
	-		1 2		-103.263 xo25		
		12B4	-	-	13 1763'32.544702 C	5 3763	
		S	•		103.263 8326	1/	
		12:33	_		B/60 3' 32.566 4775 C	4 3/60	
		8			103.263 8736	1	
		/ p:30			BIS@3" 22.5664683 C	13 BISE:	
		000			~103.263 5396	,	
		lasel.	_	-	B13 @ 3' 32.5664532 C	12 3/30	
					-103, 2637516	-	
	-	3/18 12:86			B1201'32.5664227 C	11/3/201	
	EX	DATE TIME	_	GRO	(G)R	26	H00050
	1 ++		/BASE	TEWA	AB OF		Lab I.D.
	PH I			VATER	₹ (C)OM		- - -
		SAMPLING	PRESERV.	MATRIX	ΛP.		FOR LAB USE ONLY
			Fax #:			me:	Sampler Name:
			Phone #:		Shell(2 #S+ #2-		Project Location:
		Zip:	State:			ie:	Project Name:
			City:		Project Owner:		Project #:
			Address:		Fax #:		Phone #:
			Attn:	V)MZip: 88240	State: \mathcal{M}\rip:	Yobbs	City:
			Company:			(Address:
			P.O. #:		4 Been	ager:	Project Manager:
ANALYSIS REQUEST		BILL TO	81		echt	ame: Apa	Company Name:

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

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

Observed Temp. °C
Corrected Temp. °C

Sample Condition
Cool Intact
Yes Yes
No No

CHECKED BY: (Initials) $\frac{143}{3}$

Turnaround Time:

Standard Rush 4112

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

Yes Yes
No Corrected Temp. °C

Thermometer ID #97
Correction Factor +0.4-6

Time:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 50 of 55 101 East Marland, Hobbs, NM 88240 aboratories

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

	REMARKS:		Received By:	/: Date:	Relinquished By:
me 1	<u>0</u>			Sids Imme	Jee (Vise
2	ema			>)
☑ No Add'I Phone #:	Verbal Result: ☐ Yes		Received By:	/: Date:	Relinquished By:
X	ent, its subsidiaries,	oss of use, or loss of profits incurred by client, its subsidiarie is based upon any of the above stated reasons or otherwise	without limitation, business interruptions, i ardinal, repardless of whether such claim	servee. In o even snati-cardnat be table for incidental or consequential damages, nationally mithout limitation, business interruptions, loss of use, garless of profits incurred by client, its subsidiaries servee. In o event snati-cardnat be table for incidental or consequential damages, nationally mithout limitations, business interruptions, loss of use, garless of profits incurred by client, its subsidiaries servee. In o event snati-cardnat be table for incidental or consequential damages, nationally mithout limitations, sistend upon the cardinaries of the	ervice. In no event shall Card
8	completion of the applicable	or tort, shall be limited to the amount paid received by Cardinal within 30 days after	y claim arising whether based in contract leemed waived unless made in writing and	analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable	nalyses. All claims including
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	1244	-	-	298	20
				-103.2639 192	
	25		-	D 2101' 32.564540	191
				-103.263 8857	-
	280			1320@1: 32.5665386	18
				-103.263 9423	
	95 833			B19@1 32.5665304	14
				-103.263 9685	
	105.61	1 2//5	7	13/6/07 32.564 5191	16/
7 <i>E</i>	TIME	OTHE ACID/ ICE / C OTHE	# CON		H000509
EX	+ TP	BASE:	AB OR (C NTAINER JNDWAT FEWATE	Sample I.D.	Lab I.D.
	М		RS TER		
	LING	PRESERV. SAMPLING	MATRIX		FOR LAB USE ONLY
		Fax #:		100	Sampler Name:
		Phone #:	•	" Shell GA St #2	Project Location:
		State: Zip:			Project Name:
		City:		Project Owner:	Project #:
		Address:	38	Fax #:	Phone #:
		Attn:	Zip: 88940	State: NM Zip:	city: Hobbs
		Company:			Address:
		P.O. #:	•×	" Seft Broom	Project Manager:
ANALYSIS REQUEST		BILL TO		" MDache	Company Name:

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

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

Observed Temp °C 3,8°C Corrected Temp. °C

Sample Condition Cool Intact

Yes Yes

No No

CHECKED BY: (Initials)

Turnaround Time:

Standard Rush

Thermometer ID #97 Correction Factor +0.4°C # [13 Time:

CARDINAL Laboratories Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Ches	REMARKS:	Received By:	scorenty	Relinquished By:
Verbal Result: ☐ Yes ☐ No Add'I Phone #: All Results are emailed. Please provide Email address:	Verbal Result: All Results are	Received By:	Date:	Relinquished By
cable	cor (or), shall be limited to the amount paid by the client for fine differenced by Cardinal within 30 days after completion of the appli loss of Jase, or loss of profits incurred by client, its subsidiaries, is based upon any of the above stated reasons or otherwise.	y clain ansing whether based in contract leerned waived unless made in writing and without limitation, business interruptions, I ardinal, regardless of whether such claim	TEMBER VOID: Learning air Jeaningtos, Jeaning and Jeaning Southern the Property of any Jeanin along whether dozed in Johnson or fort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received, by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of xide, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	analyses. All claims including service. In no event shall Car affiliates or successors arising
	period shall be limited to the appearance and be the allest for the		-/03. 26 40775	DI DAGO NOTO
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	c e	8	-103.256 9356	
	1900°	<u>-</u>	B25@11 32.5666332	23
			-103.2635570	
	12:50	0 -	1324011 32.5666157	22
			~103.2639259	
	1 81/8 12/18		B23@1'32.5645660	2
Ext BT	OTHER ACID/B ICE / C OTHER DATE TIME	# CON		H000 5009
t tP4	R: BASE: OOL	3 OR (C)OI TAINERS NDWATER EWATER	Sample I.D.	Lab I.D.
	PRESERV. SAMPLING			FOR LAB USE ONLY
	1	-	Joe Osservice	Sampler Name:
	Phone #:		on Shell GH St #3	Project Location:
	State: Zip:			Project Name:
	City:		Project Owner:	Project #:
	Address:		Fax #:	Phone #:
	Attn:	ON688:412 MV	State: WM	City: Hobb
	Company:			Address:
	P.O. #:			Project Manager:
ANALYSIS REQUEST	BILL 170		Planche	Company Name:

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

Date: NS 148
Date:

Received By:

All Results are emailed. Please provide Email address:

Emen

Ø No

Add'l Phone #:

Verbal Result: ☐ Yes

Received By:

REMARKS:

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

Observed Temp. °C 3.8°C Corrected Temp. °C

Sample Condition
Cool liptact
Yes Yes
No No

CHECKED BY: (Initials)

Turnaround Time:

Standard Rush

Thermometer ID #97 Correction Factor +0.4°C #113

Time:

Relinquished By:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 52 of 55 101 East Marland, Hobbs, NM 88240 aboratories

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

Company Name:	ANALYSIS REQUEST
Project Release	
Address:	Company:
City: Hobbs State: WW Zip: 88 JUO	Attn:
Phone #: Fax #:	Address:
Project #: Project Owner:	City:
Project Name:	State: Zip:
Project Location: She GA St H &	Phone #:
Sampler Name: You Change of .	Fax #:
FOR LAB USE ONLY MATRIX	PRESERV. SAMPLING
(G)RAB OR (C)OMR # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER: DATE TIME C/ EXA TPH BHOW
26 82801' 32.5667622 C 11	3/18 1.06 1 1
~103.2646332	
27 B2901 32.54,7695 (11)	1.08
-103.2640124	
72 0300 1' 32 566 7670 C 11 1	
-103.2639889	
79 B3101' 32.5667/69 (11)	- 12
-103.2639581	
30 B3201 32 5667550 C 11	7:14
-103.264	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis all claims, including those for negligence and any other cause what spewer shall be deemed waived unless made in writing and received by Earthal within 30 days after completion of the a	or tort, shall be limited to the amount paid by the client for the dressed by Agriffian within 30 days after completion of the annicable
analyses. An claims including trose for inelligibilities and any other cause wildsbewer shall be declined water unless flade in white document of consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	loss of use, or loss of profits incurred by client, its subsidiaries,

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name: A	07 11/18	ANALYSIS REQUEST
Project Manager: Bruce Bulger	P.O. #:	
Address:	Company:	
City: Holdos State: W. Zip: 82940	Attn:	
Phone #: Fax #:	Address:	
Project #: Project Owner:	City:	
Project Name:	State: Zip:	
Project Location: Shell SH SH B	Phone #:	
Sampler Name: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Fax #:	
(MATRIX PRESERV. SAI	SAMPLING
Lab I.D. Sample I.D. B OR (C)OMF STAINERS JINDWATER TEWATER	GE :R: BASE: COOL	TEX
(G)I	SOI OIL SLU OTI ACI ICE	TIME
31 133301 32.5647567 (81/2 1	1. 16 %
-103.2646785		
32 1336/01/32.3667646 (1		
3383501.32.5667672 611		1:30 × × ×
W		
34 B 3601 32.5647739 C 1	-	XXX
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14.01.36.50/-		_
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be demend waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential familiages, including without limitation, business interruptions, loss of use, or loss of profits incorrect by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal reportless of whether such claim is observed around you find a place of the performance of services hereunder by Cardinal reportless of whether such claim is observed around you find a place of the performance of services hereunder by Cardinal reportless of whether such claim is observed around your first above stated reasons or otherwise.	r based in contract or tort, shall be limited to the amount paid by the client for th made in writing and received by Cardinal within 30 days after completion of the ress interruptions, loss of use, or loss of profits incurred by client, its substitutions the state of the state	aid by the client for the first firs
Relinquished By: Date Received By:	MI	Verbal Result: ☐ Yes ☐ No Add'l Phone #: All Results are emailed. Please provide Email address:
Relinquished By: Received By:		REMARKS:
Time:		/
Delivered By: (Circle One) Observed Temp. °C Co	Sample Condition CHECKED BY:	Turnaround Time: Standard N Bacteria (only) Sample Condition Cool Intact Observed Temp of
	Ores Ores	

Cool Intact
Nyes Nyes
No No

(Initials) ガス

Thermometer ID #97 Correction Factor +84°C 年 113

Cool Intact

Observed Temp. °C Corrected Temp. °C

Page 54 of 55

aboratories 9

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
Y AND ANALYSIS RI
EQUEST

Company Name:	12 (100		BILL TO		ANALYSIS REQUEST	
Project Manager:	Dough Private	P.O. #:	. #:			
Address:		Con	Company:			
city: Holdes	State: UM Zip: 88940	ip: 88940 Attn:				-
Phone #:	Fax #:	Add	Address:			-
Project #:	Project Owner:	City:				
Project Name:		State:	te: Zip:			-
Project Location:	: Sholl GAR SHED	Phone	ne #:			
Sampler Name:	Jac Musscole do	Fax #:	#:			
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	LING		and an
Lab I.D.	Sample I.D.	:	OOL	704		
H000509		# CON GROU WAST SOIL OIL SLUD	OTHE	TIME C/	Bt	
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	202 263 5675	-				
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	-103. 2636262)		
40	2/2			1. 32		
PLEASE NOTE: Liability and analyses. All claims including	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or for, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable	claim arising whether based in contract or tort, emed waived unless made in writing and receiv	shall be limited to the amount paid ed by Cardinal within 30 days after	by the client for the completion of the applicable	1	ı
affiliates or successors arisin	affiliate or successor arting out of or related to the performance of services hereinder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	services hereunder by Cardinal, regardless of whether such claim is base	d upon any of the above stated reasons or otherwise	/	ı	1
Relinquished By:		Received By:	-8 EF	ult: □ Yes are emailed. Ple	□ No Add'I Phone #: ease provide Email address:	
Relinquished By:	respected 15:50	Received By:		REMARKS:	Eneul	
	Time:					
Delivered By: (Circle One)	rcle One) Observed Temp. °C	Sample Condition Cool Intact	CHECKED BY: (Initials)	Turnaround Time: Sta	Standard Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. °C	
Sampler - UPS - Bus - Other:	100	Yes Yes	アン	Thermometer ID #97	□Yes □ Yes	

Page 55 of 55

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	The second second	7718	0	ANALYSIS REQUEST
Project Manager:	Bouce Balver	P.O. #:		
Address:		Company:		
city: Holdo	State: NM	MZip: SK3410 Attn:		
Phone #:	Fax #:	Address:		
Project #:	Project Owner:	City:		
Project Name:	*	State: Zip:		
Project Location:	Shell CH St H	Phone #:		
Sampler Name:	Xee Missister Do	Fax #:	4	
FOR LAB USE ONLY		MATRIX	SAMPLING	
Lab I.D.	Sample I.D.	G)RAB OR (C)OMP. CONTAINERS GROUNDWATER VASTEWATER COIL COIL COIL COIL COIL COIL COIL COIL	DATE TOWN	
	B43 @3" 325663481	- -	1.34	
	-103.2634049			
42 12	154461 32.566337/		1:36	
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15/	-103.2652191		1.38	
111	B4601' 32.5663286	C 1 1 1 1	1:40111	
	-103.8631917	78		
LEASE NOTE: Liability and D analyses. All claims including therefore. In no event shall Cardi	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract sanalyses. All claims including those for negligence and any other cause whatese whether whether whether whiting and service. In no event shall Cardinal be liable for incidental or consequents damages whether including whiting and business interruptions.	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shaff be limited to the amount paid by the client for the sandlyses. All claims including those for negligence and any other cause whatsoever shall be determed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In o event shall Cardinal be liable for incidental or consequent damages, including without the state of consequent damages, the contract of the state of the s	ount paid by the client for the days after completion of the applicable street by client, its subsidiaries,	
Relinquished By:	Date: Time: 15:52 Date:		ult: □ Yes ☒ No are emailed. Please prov	Add' Phone #: ide Email address:
Delivered By: (Circle One)	le One) Observed Temp. °C	Sample Co	Y: Turnaround Time: Standard	
Sampler - UPS - Bus - Otner	169		Inermometer ID #97 Correction Factor +0.4°C 井川子	No No Corrected Temp. °C



February 24, 2020

JEFFREY BROOM

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: SHELL G A ST #2

Enclosed are the results of analyses for samples received by the laboratory on 02/19/20 16:11.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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.

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

Received:

02/19/2020

Reported: Project Name: 02/24/2020 SHELL G A ST #2

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sampling Date:

02/19/2020

Sampling Type:

Soil

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

Sample ID: W 16 32.5665120-103.2638890 (H000531-01)

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	02/24/2020	ND	1.77	88.3	2.00	6.87	
Toluene*	<0.050	0.050	02/24/2020	ND	1.75	87.6	2.00	6.95	
Ethylbenzene*	<0.050	0.050	02/24/2020	ND	1.76	88.1	2.00	7.53	
Total Xylenes*	<0.150	0.150	02/24/2020	ND	5.09	84.9	6.00	7.38	
Total BTEX	<0.300	0.300	02/24/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	02/24/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2020	ND	193	96.4	200	2.80	
DRO >C10-C28*	<10.0	10.0	02/22/2020	ND	188	94.0	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	02/22/2020	ND					
Surrogate: 1-Chlorooctane	87.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	90.8	% 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keene



Analytical Results For:

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

Received:

RTFY 8021R

02/19/2020

Reported: Project Name: 02/24/2020 SHELL G A ST #2

Project Number:
Project Location:

NONE GIVEN NOT GIVEN

ma/ka

Sampling Date:

02/19/2020

Sampling Type:

Soil

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

Sample ID: W 18 32.5664419-103.2638917 (H000531-02)

B1EX 8021B	mg/	кд	Anaiyze	а ву: СК					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2020	ND	1.77	88.3	2.00	6.87	
Toluene*	<0.050	0.050	02/24/2020	ND	1.75	87.6	2.00	6.95	
Ethylbenzene*	<0.050	0.050	02/24/2020	ND	1.76	88.1	2.00	7.53	
Total Xylenes*	<0.150	0.150	02/24/2020	ND	5.09	84.9	6.00	7.38	
Total BTEX	<0.300	0.300	02/24/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d Method Blank					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	02/24/2020	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/22/2020	ND	193	96.4	200	2.80	
DRO >C10-C28*	<10.0	10.0	02/22/2020	ND	188	94.0	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	02/22/2020	ND					
Surrogate: 1-Chlorooctane	82.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	85.3	% 42.2-15	6						

Analyzed By: CK

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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Celeg D. Freene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	BILL TO	ANALYSIS REQUEST
Project Manager: Proche Probles	P.O. #:	
	Company:	
State: UU Zip: 78240	Attn:	
Phone #: Fax #:	Address:	
Project #: Project Owner:	City:	
Project Name:	State: Zip:	
Project Location: And SACHO HO	Phone #:	
Col Choscolo	Fax #:	
	PRESERV. SAMPLING	
# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: CE/COOL OTHER: DATE	CI EXT TPH BTGX
103 32-5We5120 C 1 1	1 2/19/1	/
2 W18 32.5664410 C1	1 3 km 1 m, r/m.	
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Relinquished By: Date: Received By: Verbal Results and I Results are considered by: All Results are considered by: All Results are considered by: Property Proper	Verbal Result: All Results are ema	ılt: □ Yes ıre emailed.
Relinguished By: Pate: Received By: Time:	REMARKS:	
Delivered By: (Circle One) Observed Temp. °C Sample Condition Confected Temp. °C Nes Nes	lition CHECKED BY: Turnaround Time: (Initials) Thermometer ID #97 Correction Eactor + 0	Time: Standard Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. °C ID #97 CHARLES Yes Yes



March 10, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: SHELL G A ST #2

Enclosed are the results of analyses for samples received by the laboratory on 02/24/20 16:24.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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 Total Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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 2350 W. MARLAND BLVD. HOBBS NM, 88240 Project: SHELL G A ST #2
Project Number: NONE GIVEN

Project Manager: BRUCE BAKER

Fax To: (575) 393-2432

Reported: 10-Mar-20 08:58

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B 25 @ 1' 6" 32.5666332-103.2649	H000577-01	Soil	24-Feb-20 11:53	24-Feb-20 16:24
B 16 @ 3' 6" 32.5664775-103.263	H000577-02	Soil	24-Feb-20 12:15	24-Feb-20 16:24
B 12 @ 1' 6" 32.5664227-103.2637	H000577-03	Soil	24-Feb-20 13:11	24-Feb-20 16:24
B 36 @ 1' 6" 32.5667739-103.2639	H000577-04	Soil	24-Feb-20 15:05	24-Feb-20 16:24
B 38 @ 1' 6" 32.5668025-103.264(H000577-05	Soil	24-Feb-20 15:07	24-Feb-20 16:24
B 42 @ 1' 32.5663518-103.263525	H000577-06	Soil	24-Feb-20 15:30	24-Feb-20 16:24
B 6 @ 2' 32.5663815-103.2637576	H000577-07	Soil	24-Feb-20 15:45	24-Feb-20 16:24

03/10/20 - Client revised the sample ID for -01. This is the revised report and will replace the one sent on 02/25/20.

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Analytical Results For:

APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240 Project: SHELL G A ST #2
Project Number: NONE GIVEN

Project Manager: BRUCE BAKER

Fax To: (575) 393-2432

Reported: 10-Mar-20 08:58

B 25 @ 1' 6" 32.5666332-103.2649356 H000577-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Volatile Organic Compounds l	oy EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Surrogate: 4-Bromofluorobenzene (PID))		101 %	73.3	-129	0022430	CK	25-Feb-20	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	0022426	CK	25-Feb-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0022426	CK	25-Feb-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0022426	CK	25-Feb-20	8015B	
Surrogate: 1-Chlorooctane			84.9 %	44.3	-144	0022426	CK	25-Feb-20	8015B	
Surrogate: 1-Chlorooctadecane			86.8 %	42.2	-156	0022426	CK	25-Feb-20	8015B	

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48.0

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

Analytical Results For:

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

Inorganic Compounds

Chloride

Project: SHELL G A ST #2
Project Number: NONE GIVEN

Project Manager: BRUCE BAKER Fax To: (575) 393-2432 Reported: 10-Mar-20 08:58

4500-Cl-B

B 16 @ 3' 6" 32.5664775-103.2638324

H000577-02 (Soil)

Analyte Result MDL Reporting Units Dilution Batch Analyst Analyzed Method Notes

Cardinal Laboratories

mg/kg

0022508

AC

25-Feb-20

16.0

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240 Project: SHELL G A ST #2
Project Number: NONE GIVEN

Project Manager: BRUCE BAKER Fax To: (575) 393-2432 Reported: 10-Mar-20 08:58

B 12 @ 1' 6" 32.5664227-103.2637516

H000577-03 (Soil)

Analyte	Result	MDL	Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	240		16.0	mg/kg	4	0022508	AC	25-Feb-20	4500-Cl-B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240 Project: SHELL G A ST #2
Project Number: NONE GIVEN

Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported: 10-Mar-20 08:58

B 36 @ 1' 6" 32.5667739-103.2639484

H000577-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	0022430	CK	25-Feb-20	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	١		101 %	73.3	-129	0022430	CK	25-Feb-20	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	0022426	CK	25-Feb-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0022426	CK	25-Feb-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0022426	CK	25-Feb-20	8015B	
Surrogate: 1-Chlorooctane			91.2 %	44.3	-144	0022426	CK	25-Feb-20	8015B	
Surrogate: 1-Chlorooctadecane			91.2 %	42.2	-156	0022426	CK	25-Feb-20	8015B	

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Analytical Results For:

APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240 Project: SHELL G A ST #2
Project Number: NONE GIVEN

Reported: 10-Mar-20 08:58

Project Manager: BRUCE BAKER Fax To: (575) 393-2432

B 38 @ 1' 6" 32.5668025-103.2640537

H000577-05 (Soil)

Analyte Result MDL Reporting Units Dilution Batch Analyst Analyzed Method Notes

Cardinal Laboratories

Inorganic Compounds

 Chloride
 976
 16.0
 mg/kg
 4
 0022508
 AC
 25-Feb-20
 4500-Cl-B

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240 Project: SHELL G A ST #2
Project Number: NONE GIVEN

Project Manager: BRUCE BAKER Fax To: (575) 393-2432 Reported: 10-Mar-20 08:58

B 42 @ 1' 32.5663518-103.2635259

H000577-06 (Soil)

Analyte	Result	MDL	Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	<16.0		16.0	mg/kg	4	0022509	AC	25-Feb-20	4500-Cl-B	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240 Project: SHELL G A ST #2
Project Number: NONE GIVEN

Project Manager: BRUCE BAKER

Fax To: (575) 393-2432

Reported: 10-Mar-20 08:58

B 6 @ 2' 32.5663815-103.2637576

H000577-07 (Soil)

	Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
				Cardina	ıl Laborat	ories					
]	Inorganic Compounds										
(Chloride	416		16.0	mg/kg	4	0022509	AC	25-Feb-20	4500-Cl-B	

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Analytical Results For:

APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240 Project: SHELL G A ST #2
Project Number: NONE GIVEN

Project Manager: BRUCE BAKER Fax To: (575) 393-2432 Reported: 10-Mar-20 08:58

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0022508 - 1:4 DI Water										
Blank (0022508-BLK1)				Prepared &	: Analyzed:	25-Feb-20				
Chloride	ND	16.0	mg/kg							
LCS (0022508-BS1)				Prepared &	Analyzed:	25-Feb-20				
Chloride	416	16.0	mg/kg	400	·	104	80-120			
LCS Dup (0022508-BSD1)				Prepared &	Analyzed:	25-Feb-20				
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	
Batch 0022509 - 1:4 DI Water										
Blank (0022509-BLK1)				Prepared &	: Analyzed:	25-Feb-20				
Chloride	ND	16.0	mg/kg							
LCS (0022509-BS1)				Prepared &	Analyzed:	25-Feb-20				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (0022509-BSD1)				Prepared &	: Analyzed:	25-Feb-20				
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	

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%REC

Analytical Results For:

APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240 Project: SHELL G A ST #2
Project Number: NONE GIVEN

Spike

Source

Reported: 10-Mar-20 08:58

RPD

Project Manager: BRUCE BAKER Fax To: (575) 393-2432

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Reporting

		recporting		Брис	Bource		/orche		IG D	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0022430 - Volatiles										
Blank (0022430-BLK1)				Prepared: 2	24-Feb-20 A	nalyzed: 2	5-Feb-20			
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0505		mg/kg	0.0500		101	73.3-129			
LCS (0022430-BS1)				Prepared: 2	24-Feb-20 A	nalyzed: 2	5-Feb-20			
Benzene	1.97	0.050	mg/kg	2.00		98.7	72.2-131			
Toluene	1.99	0.050	mg/kg	2.00		99.3	71.7-126			
Ethylbenzene	1.99	0.050	mg/kg	2.00		99.4	68.9-126			
Total Xylenes	5.83	0.150	mg/kg	6.00		97.2	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0514		mg/kg	0.0500		103	73.3-129			
LCS Dup (0022430-BSD1)				Prepared: 2	24-Feb-20 A	nalyzed: 2	5-Feb-20			
Benzene	1.98	0.050	mg/kg	2.00		99.2	72.2-131	0.557	14.6	
Toluene	1.99	0.050	mg/kg	2.00		99.7	71.7-126	0.371	17.4	
Ethylbenzene	2.00	0.050	mg/kg	2.00		100	68.9-126	0.646	18.9	
Total Xylenes	5.87	0.150	mg/kg	6.00		97.9	71.4-125	0.680	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0513		mg/kg	0.0500		103	73.3-129			

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%REC

Analytical Results For:

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

Surrogate: 1-Chlorooctadecane

Project: SHELL G A ST #2
Project Number: NONE GIVEN

Reported: 10-Mar-20 08:58

RPD

Project Manager: BRUCE BAKER Fax To: (575) 393-2432

Spike

50.0

122

42.2-156

Source

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Reporting

60.9

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 0022426 - General Prep - Organics										
Blank (0022426-BLK1)				Prepared: 2	24-Feb-20 A	analyzed: 2	5-Feb-20			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	51.2		mg/kg	50.0		102	44.3-144			
Surrogate: 1-Chlorooctadecane	53.6		mg/kg	50.0		107	42.2-156			
LCS (0022426-BS1)				Prepared: 2	24-Feb-20 A	nalyzed: 2	5-Feb-20			
GRO C6-C10	192	10.0	mg/kg	200		96.2	78.8-127			
DRO >C10-C28	211	10.0	mg/kg	200		105	80-132			
Total TPH C6-C28	403	10.0	mg/kg	400		101	81.3-128			
Surrogate: 1-Chlorooctane	55.1		mg/kg	50.0		110	44.3-144			
Surrogate: 1-Chlorooctadecane	57.6		mg/kg	50.0		115	42.2-156			
LCS Dup (0022426-BSD1)				Prepared: 2	24-Feb-20 A	nalyzed: 2	5-Feb-20			
GRO C6-C10	207	10.0	mg/kg	200		104	78.8-127	7.54	15.1	
DRO >C10-C28	227	10.0	mg/kg	200		114	80-132	7.51	17.1	
Total TPH C6-C28	435	10.0	mg/kg	400		109	81.3-128	7.52	15	
Surrogate: 1-Chlorooctane	59.3		mg/kg	50.0		119	44.3-144			

mg/kg

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 110 of 121

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

Company Name: ()			BILL TO	ANA	ANALYSIS REQUEST
roject Manager:	" Series Billion		P.O. #:		
Address:			Company:		
City: Hobbs	State:	NV Zip: 88240	Attn:		
hone #:	Fax #:		Address:		
roject #:	Project Owner:		City:		
roject Name:			State: Zip:		
Project Location:	Shoull CAP State	# 92	Phone #:		
Sampler Name:) Con Ourseacher		Fax #:		
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	LING	
Lab I.D.	Sample I.D.	JDGE	HER : D/BASE: J/ COOL HER :	I Xt.TPH Ptex	
* 1	8 34 @1' " 32.51db (38)	- # G V - S O S	1 2/20		
;	103. 2041 A 9356		•		
s.	12	1 1	1 2/24	D. 15 / 200	
	103. 2638524			7	
Cu	3 B 201' 6' 30, SW 3 1/227	0	1 2/24	(3;):	
,,	-103, 26, 50I-	7	2000	7	
7	1134 61 2 363948 1134		0.5	3.00	
CT	338 @116"32.5668025	0-1	2/24 15:07	5:0:1	
	-63 2640537			buths client for the	
PLEASE NOTE: Liability analyses. All claims incluses service. In no event shall to	PLEASE NOTE: Liability and Damages. Cardinal's lability and client's exclusive remoty for any claim arising whether based in contract or fort, stall be minted to the amount year by the cherity analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In one 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 substitutions.	ny ciaim ansing whether based in contract deemed waived unless made in writing and g without limitation, business interruptions, le artifical reportiless of whether such claim is	or tort, shall be littined to the arribulit path received by Cardinal within 30 days after oss of use, or loss of profits incurred by closs of use, or loss of profits incurred by closs of use.	toy we cream for me completion of the applicable lient, its subsidiaries, sons or otherwise.	
Relinquished By:	Date:	Received By:	11111	Verbal Result: ☐ Yes ᠺ No Noverbal Results are emailed. Please provi	Add'l Phone #: de Email address:
Relinquished By	Time 129	Received By:	Makese	REMARKS:	
	Time:			* Jeff revised & comp	Con aluta Ca
Delivered By: (Circle One)	Circle One) Observed Temp. °C 3.8	Sample Condition Cool Infact	on CHECKED BY: (Initials)	Thermometer ID #97	■ Bacteria (only) Sample Condition Cool Intact Observed Temp. °C ☐ Yes ☐ Yes
2011	Bill Othor	۱		JE# O Januarian	60111501

Correction Factor + 0.4 °C

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



	(3/3) 333-2320 FAA (3/3) 333-24/	6					
Company Name:	Arracher 1		BILL 70		ANALYSIS	REQUEST	
Project Manager:			P.O. #:				_
Address:			Company:				
city: Hobbs	State:	ONE 88:dizYNN	Attn:				
Phone #:	Fax #:		Address:				_
Project #:	Project Owner:		City:				
Project Name:			State: Zip:				
Project Location:	Shall 6/4 5+ 42		Phone #:				
Sampler Name:	amesiale-		Fax #:				
FOR LAB USE ONLY		MATRIX	PRESERV. SAME	SAMPLING			
Lab I.D. <i>Hoos 77</i>	Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: OTHER: OTHER:	TIME C/			
6	B42 01 32.5163518		-	K (%)			
7	Rh @21 St. Sh. 3815	C1 1	1 2/2H	15,45/			
	-103. 2G						
PLEASE NOTE: Liability and analyses. All claims including service. In no event shall Carofficies or suppessors arising	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. It claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable section. In one event shall Cardinal be liable for incidental or nonsequential amanages, including whole limitation, business interruptions, loss of use, or loss of profits incurred by client, its substitiates, confidence or successors arising out of or related to the performance of services hereunder by Cardinal reparaties of whether such claim is based upon any of the above stated reasons or otherwise.	y claim arising whether based in contract or eerned waived unless made in writing and without limitation, business interruptions, to ardinal repardless of whether such claim in	or tort, shall be limited to the amount pai received by Cardinal within 30 days after oss of use, or loss of profits incurred by one shared are to the showe stated re-	d by the client for the r completion of the applicable client, its subsidiaries, asons or otherwise.			
Relinquished By:	By: Date: Date	Received By: Received By:	Allakye	ult: ☐ Yes are emailed. P	No Add'l Phone #: lease provide Email addre	 	
Delivered By: (Circle One) Sampler - UPS - Bus - Ott	Observed Temp. °C	3.8 Sample Condition Cool Intact		Turnaround Time: Star	dard	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C □Yes □Yes	
Sampler - UPS - Bus - Otner:			4	Inermometer ID #9/] [] [] [Lies	_



March 11, 2020

JEFFREY BROOM

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: SHELL G A ST #2

Enclosed are the results of analyses for samples received by the laboratory on 03/10/20 16:22.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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.

Celey 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 JEFFREY BROOM 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To: (575) 393-2432

Received: Reported: 03/10/2020

03/11/2020

Project Name: Project Number: SHELL G A ST #2 NONE GIVEN

Project Location:

Analyte

NOT GIVEN

Result 80.0

Sampling Date:

03/10/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)
Tamara Oldaker

Sample ID: B 38 @ 2' (H000753-02)

Sample ID: W 18 (H000753-01)

Chloride, SM4500Cl-B

mg/kg

Reporting Limit

16.0

Analyzed By: GM

Allalyzed by. Gi-i

Analyzed

03/11/2020

Method Blank BS

% Recovery

True Value QC 400 Qualifier

Chloride

Chloride

Chloride, SM4500CI-B

mg/kg

Analyzed By: GM

Analyte Result Reporting Limit Analyzed

80.0 16.0 03/11/2020

Method Blank

ND

BS 416

416

% Recovery 104

104

True Value QC 400 RPD Qualifier 0.00

RPD

0.00

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 4



Notes and Definitions

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RPD Relative Percent Difference

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

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Celeg D. Freene

Sampler - UPS - Bus - Other:

Observed Temp. °C
Corrected Temp. °C

Sample Condition
Cool Intact
Yes Yes
No No

CHECKED BY: (Initials)

Turnaround Time:

Standard Rush

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

Yes Yes
No Corrected Temp. °C

Corrected Temp. °C

Time:

Delivered By: (Circle One)

Page 4 of 4 aboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Lab I.D. Sample I.D. (G)RAB OR (C) MP. # CONTAINERS GROUNDWATER WASTEWATER SOIL SLUDGE OTHER: ACID/BASE: ACID/BASE: ACID/BASE: OTHER: 3/10 \$3/10 \$2/10	Fax #:	Project Location: Shall GIA St #2 Phone #:	Project Name: Zip:	Project #: City:	Phone #: Address:	City: HoWos State: Zip: Attn:	Address: Company:	Project Manager: Jeff Roy Brown P.O. #:	Company Name: Apache ANALYSIS
N									ANALYSIS REQUEST

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

Thermometer ID #97 Correction Factor + 0.4 °C



Shell GA State # 2
1RP-5203
Revegetation
And
Noxious Weed Plan

Revegetation Plan:

All the disturbed areas in the pasture will be properly prepared and seeded with sandy seed mixture. The disturbed area will be monitored to ensure successful revegetation is achieved. If revegetation is not successful after a couple of growing seasons the site will be reseeded.

Noxious Weed Plan:

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

Shell GA State # 2 Photos















