



303 Veterans Airpark Lane Midland, TX 79705

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

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

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

Release Notification

Responsible Party

Responsible Party	Apache Corporation	OGRID	873
Contact Name	Bruce Baker	Contact Telephone	432-631-6982
Contact email	larry.baker@apachecorp.com	Incident # (assigned by OCD)	NOY1826848178
Contact mailing address	2350 W. Marland BLVD Hobbs, NM 88240		

Location of Release Source

Latitude 32.56681 Longitude -103.26402
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Shell GA State # 2	Site Type	P&A well
Date Release Discovered	9/17/2018	API# (if applicable)	30-025-06131

Unit Letter	Section	Township	Range	County
M	16	20S	37E	Lea

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) Unknown	Volume Recovered (bbls) 0 recovered
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No Unknown
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release : An unaffiliated third party truck conducted an illegal dump of produced water at the plug and abandoned well site.

State of New Mexico
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Unknown volume of release
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? No but once Apache confirmed responsibility Jim Griswold and Olivia Yu were notified by Bruce Baker via email on 9/19/2018.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why: By the time of discovery there was no standing fluid to be recovered or removed
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Bruce Baker</u> Title: <u>Environmental Technician Sr.</u> Signature: <u>Bruce Baker</u> Date: <u>9/25/18</u> email: <u>larry.baker@apachecorp.com</u> Telephone: <u>432-631-6982</u>

OCD Only Received by: RECEIVED <u>By Olivia Yu at 1:27 pm, Sep 25, 2018</u>	Date: _____
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Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>27</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

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

Printed Name: Bruce Baker Title: Environmental Tech SR.

Signature: Bruce Baker Date: 12-17-18

email: larry.baker@apackecorp.com 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 items 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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Larry Baker Title: Environmental Tech SR.
 Signature: Larry Baker Date: 4/5/2020
 email: larry.baker@apachecorp.com Telephone: 432-631-6982

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



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

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

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

POD Number	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column	
L 13490 POD1	L	LE		3	1	3	21	20S	37E	663365	3603321	1399	30			
L 14330 POD2	L	LE		1	1	4	20	20S	37E	662187	3603507	1477	35	24	11	
L 14330 POD3	L	LE		1	1	4	20	20S	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	20S	37E	662173	3603503	1488	35	24	11	
L 14330 POD4	L	LE		1	1	4	20	20S	37E	662187	3603492	1489	35	24	11	
L 09590	L	LE					4	08	20S	37E	662440	3606491*	1908	70	35	35
L 09590	R	L	LE				4	08	20S	37E	662440	3606491*	1908	70	35	35
L 09590 POD2	L	LE					4	08	20S	37E	662440	3606491*	1908	66	30	36

Average Depth to Water: **27 feet**
 Minimum Depth: **24 feet**
 Maximum Depth: **35 feet**

Record Count: 10

UTM NAD83 Radius Search (in meters):

Easting (X): 663072

Northing (Y): 3604690

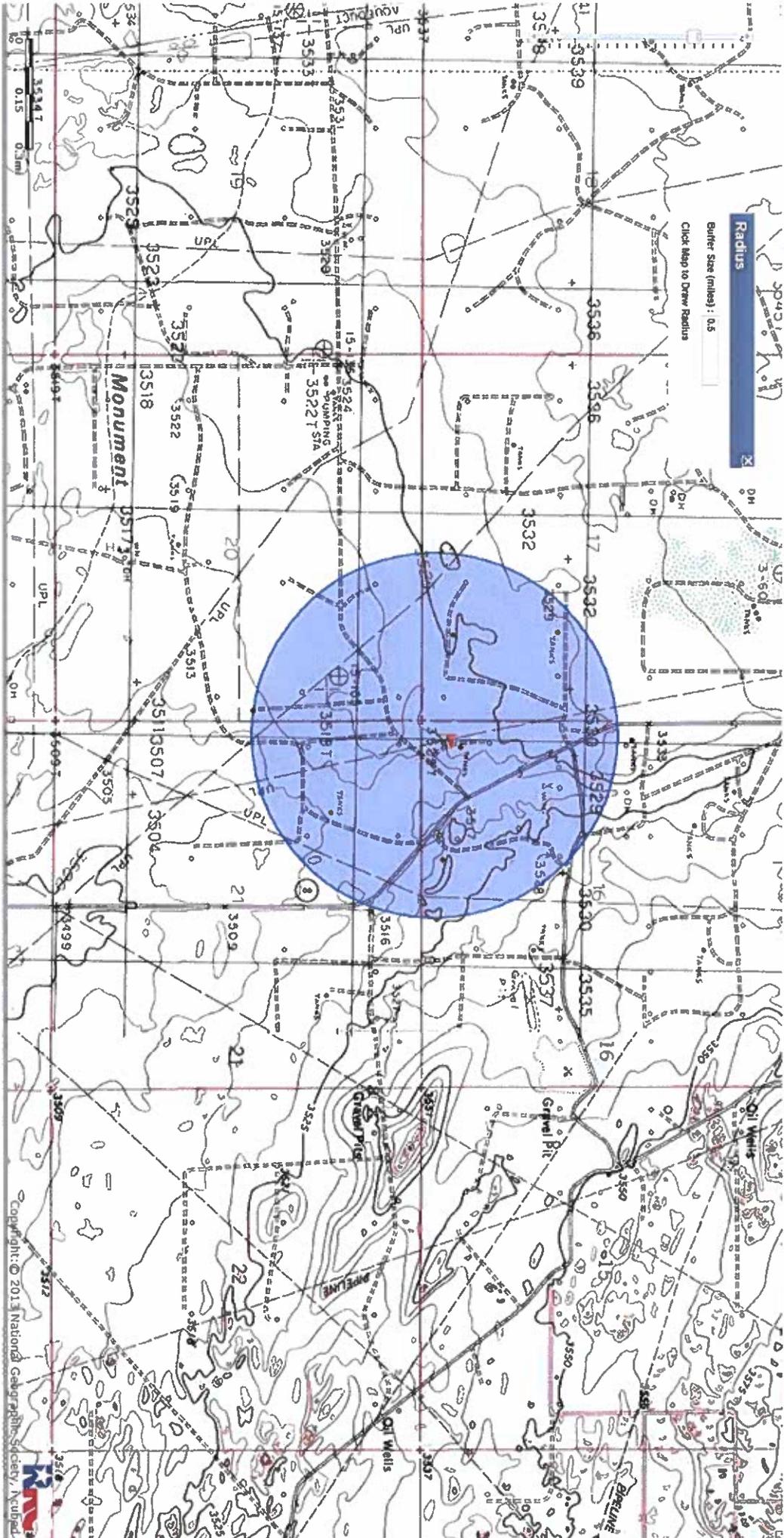
Radius: 2000

*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





Google earth

Copyright © 2020 Google

1:00

Shell GA State # 2

North Pasture Samples @ 1'		South Pasture Samples @ 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 vertical		SP 4 Vertical		SP 5 Vertical		SP 6 Vertical	
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				







Map ID	Sample Date	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
B1	2/18/2020	B1 @ 3'	3'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5663210 -103.2639842
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	32.5663490 -103.2639390
B3	2/18/2020	B3 @ 3'	3'	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.566543 -103.2639011
B4	2/18/2020	B4 @ 1'	1'	192	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5663558 -103.2638314
B5	2/18/2020	B5 @ 1'	1'	336	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5663668 -103.2637941
B6	2/18/2020	B6 @ 1'	1'	656	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5663815 -103.2637576
	2/24/2020	B6 @ 2'	2'	416									
B7	2/18/2020	B7 @ 1'	1'	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5663826 -103.2637194
B8	2/18/2020	B8 @ 3'	3'	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5664007 -103.2639427
B9	2/18/2020	B9	5'	448	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5664060 -103.2638971
B10	2/18/2020	B10 @ 6'	6'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5663930 -103.2638736
B11	2/18/2020	B11 @ 1'	1'	192	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5664032 -103.2637901
B12	2/18/2020	B12 @ 1'	1'	1360	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5664227 -103.2637516
	2/24/2020	B12 @ 1' 6"	1.5'	240									
B13	2/18/2020	B13 @ 3'	3'	384	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5664532 -103.2639390
B14	2/18/2020	B14 @ 7'	7'	464	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5664631 -103.2639034
B15	2/18/2020	B15 @ 3'	3'	112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5664693 -103.2638736
B16	2/18/2020	B16 @ 3'	3'	976	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5664775 -103.2638324
		B16 @ 3' 6"	3.5'	48									
B17	2/18/2020	B17 @ 3'	3'	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5664702 -103.2638025
B18	2/18/2020	B18 @ 1'	1'	208	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5665386 -103.2638857

B19	2/18/2020	B19 @ 1'	1'	144	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	53.6	21.7	32.5665810 -103.2639792
B20	2/18/2020	B20 @ 1'	1'	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	24.9	27.3	32.5665897 -103.2639380
B21	2/18/2020	B21 @ 1'	1'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	28	<10.0	32.5665810 -103.2639792
B22	2/18/2020	B22 @ 1'	1'	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	28.6	13.5	32.5665897 -103.2639380
B23	2/18/2020	B23 @ 1'	1'	144	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	19.5	<10.0	32.5665600 -103.2639259
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	32.5666197 -103.2639970
B25	2/18/2020	B25 @ 1'	1'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	84	58.2	32.566332 -103.2669356
		B25 @ 1' 6"	1.5'								<10.0	<10.0	
B26	2/18/2020	B26 @ 1'	1'	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5666999 -103.2641519
B27	2/18/2020	B24 @ 1'	1'	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5666787 -103.2640775
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	32.5667022 -103.2640332
B29	2/18/2020	B29 @ 1'	1'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5667095 -103.2640124
B30	2/18/2020	B30 @ 1'	1'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5667090 -103.2639889
B31	2/18/2020	B31 @ 1'	1'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5667169 -103.2639581
B32	2/18/2020	B32 @ 1'	1'	96	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5667550 -103.2641190
B33	2/18/2020	B33 @ 1'	1'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5667567 -103.2646785
B34	2/18/2020	B34 @ 1'	1'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5667646 -103.2640359
B35	2/18/2020	B35 @ 1'	1'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5667622 -103.2639799
B36	2/18/2020	B36 @ 1'	1'	96	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	59.2	52.3	32.5667739 -103.2639484
	2/24/2020	B36 @ 1' 6"	1.5'								<10.0	<10.0	
B37	2/18/2020	B37 @ 1'	1'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5667915 -103.2640741
B38	2/18/2020	B38 @ 1'	1'	736	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.5668025 -103.2640537

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



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

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/17/2020	Sampling Date:	02/17/2020
Reported:	02/19/2020	Sampling Type:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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		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		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	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

Surrogate: 1-Chlorooctadecane 95.6 % 37.6-147

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/17/2020	Sampling Date:	02/17/2020
Reported:	02/19/2020	Sampling Type:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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) 99.8 % 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	48.0	16.0	02/19/2020	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	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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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/17/2020	Sampling Date:	02/17/2020
Reported:	02/19/2020	Sampling Type:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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	02/18/2020	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 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/18/2020	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 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/17/2020	Sampling Date:	02/17/2020
Reported:	02/19/2020	Sampling Type:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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	02/18/2020	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 % 73.3-129

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	02/19/2020	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	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 % 37.6-147

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/17/2020	Sampling Date:	02/17/2020
Reported:	02/19/2020	Sampling Type:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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	02/18/2020	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 % 73.3-129

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	02/19/2020	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	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 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/17/2020	Sampling Date:	02/17/2020
Reported:	02/19/2020	Sampling Type:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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	02/18/2020	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 % 73.3-129

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	02/19/2020	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	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 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/17/2020	Sampling Date:	02/17/2020
Reported:	02/19/2020	Sampling Type:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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	02/18/2020	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 % 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	02/19/2020	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	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 93.2 % 41-142

Surrogate: 1-Chlorooctadecane 98.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/17/2020	Sampling Date:	02/17/2020
Reported:	02/19/2020	Sampling Type:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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		Analyzed 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		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	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

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/17/2020	Sampling Date:	02/17/2020
Reported:	02/19/2020	Sampling Type:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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	02/18/2020	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 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed 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		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	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 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/17/2020	Sampling Date:	02/17/2020
Reported:	02/19/2020	Sampling Type:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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	02/18/2020	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 % 73.3-129

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	02/19/2020	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	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 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/17/2020	Sampling Date:	02/17/2020
Reported:	02/19/2020	Sampling Type:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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	02/18/2020	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 % 73.3-129

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	02/19/2020	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	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 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/17/2020	Sampling Date:	02/17/2020
Reported:	02/19/2020	Sampling Type:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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	02/18/2020	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 % 73.3-129

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	02/19/2020	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	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 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/17/2020	Sampling Date:	02/17/2020
Reported:	02/19/2020	Sampling Type:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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	02/18/2020	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 % 73.3-129

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	02/19/2020	ND	432	108	400	3.64	

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	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 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/17/2020	Sampling Date:	02/17/2020
Reported:	02/19/2020	Sampling Type:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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	02/18/2020	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		Analyzed 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		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	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 % 37.6-147

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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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <i>Apache</i>		P.O. #:		ANALYSIS REQUEST		
Project Manager: <i>Sepp Brown</i>		Company:				
Address:		Attn:				
City: <i>Hobbs</i>		Address:				
Phone #:		City:				
Project #:		State:				
Project Name:		Phone #:				
Project Location: <i>Sho 11 GA st #2</i>		Fax #:				
Sampler Name: <i>Jose Duran</i>		DATE		TIME		
FOR LAB USE ONLY		DATE		TIME		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV	SAMPLING
				GROUNDWATER		
				WASTEWATER		
				SOIL		
				OIL		
				SLUDGE		
				OTHER :		
				ACID/BASE:		
				ICE / COOL		
				OTHER :		
<i>1</i>	<i>W101' 32.566655</i>	<i>C</i>	<i>1</i>			<i>2/17 3:02pm</i>
<i>2</i>	<i>-103.264103</i>	<i>C</i>	<i>1</i>			<i>3:04pm</i>
<i>3</i>	<i>W201' 32.56657</i>	<i>C</i>	<i>1</i>			<i>3:06pm</i>
<i>4</i>	<i>-103.26381</i>	<i>C</i>	<i>1</i>			<i>3:08pm</i>
<i>5</i>	<i>W301' 32.5663707</i>	<i>C</i>	<i>1</i>			<i>3:10pm</i>
	<i>-103.2634103</i>	<i>C</i>	<i>1</i>			
	<i>W401' 32.5663844</i>	<i>C</i>	<i>1</i>			
	<i>-103.2631484</i>	<i>C</i>	<i>1</i>			
	<i>W501' 32.5663761</i>	<i>C</i>	<i>1</i>			
	<i>-103.2636359</i>	<i>C</i>	<i>1</i>			

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Relinquished By: *[Signature]* Date: *2-17-20* Received By: *[Signature]* Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address:

REMARKS: ** Sample type revised as per SOE. 2/17/20 ch*

Delivered By: (Circle One) Observed Temp. °C: *2.7* Sample Condition: Intact Cool Yes No No
 Corrected Temp. °C: *2.7* CHECKED BY: *HS* Turnaround Time: *Standard* Rush Bacteria (only) Cool Intact Yes No No No No
 Corrected Temp. °C: *2.7*



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Apache</u> Project Manager: <u>Self Brown</u> Address: City: <u>Hobbs</u> State: <u>NM</u> zip: <u>88240</u> Phone #: _____ Fax #: _____ Project #: _____ Project Owner: Project Name: Project Location: <u>Shell GA st #2</u> Sampler Name: <u>Jose Duranola</u>		P.O. #: Company: Attn: Address: City: State: _____ Zip: Phone #: Fax #:	
FOR LAB USE ONLY Lab I.D. Sample I.D.		BILL TO	
H000487 6 W 6 @ 3' 32.5663041 C 4 -103.2639692 7 W 7 @ 3' 32.5664190 C 4 -103.2639330 8 W 8 @ 3' 32.5665205 C 4 -103.2638659 9 W 9 @ 3' 32.5664419 C 4 -103.2638180 10 W 10 @ 6' 32.5664319 C 4 -103.2639361		ANALYSIS REQUEST	
(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		MATRIX PRESERV SAMPLING	
DATE TIME		EXT TPH BTEX	
2/17 3:18pm 3:14pm 3:16pm 3:18pm 3:20pm		 	

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Relinquished By: [Signature] Date: 8/17/20 Time: 16:27
 Received By: [Signature]
 Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address:
 REMARKS:

Delivered By: (Circle One) Observed Temp. °C 21.0 Sample Condition Cool Intact Yes No Yes No CHECKED BY: (Initials) HS
 Sampler - UPS - Bus - Other: Corrected Temp. °C _____ Thermometer ID # 113 Standard Bacteria (only) Sample Condition Cool Intact Yes No Yes No Observed Temp. °C _____ Corrected Temp. °C _____



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

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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, 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	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.3 % 42.2-156

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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, 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	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.5 % 42.2-156

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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	1.99	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, 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	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	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 89.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.4 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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	1.99	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 % 73.3-129

Chloride, SM4500Cl-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		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*	<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 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.5 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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) 99.1 % 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	336	16.0	02/20/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	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 91.6 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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) 101 % 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	656	16.0	02/20/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 93.6 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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 % 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	80.0	16.0	02/20/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	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 84.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 86.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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		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*	<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

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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) 101 % 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	32.0	16.0	02/20/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.7 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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 % 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	192	16.0	02/20/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.0 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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 % 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	1360	16.0	02/20/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.6 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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) 99.3 % 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	384	16.0	02/20/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.4 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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 % 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	112	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*	<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 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.8 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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 % 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	976	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*	<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

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Celey D. Keene, Lab Director/Quality Manager



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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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) 99.7 % 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	160	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*	<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 93.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.3 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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, SM4500Cl-B		mg/kg		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		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*	<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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Celey D. Keene, Lab Director/Quality Manager



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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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 % 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	144	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*	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						

Surrogate: 1-Chlorooctane 90.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.9 % 42.2-156

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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) 99.6 % 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	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 94.7 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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) 98.6 % 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	32.0	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*	<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 % 44.3-144

Surrogate: 1-Chlorooctadecane 93.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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 % 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	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.6 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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) 99.3 % 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	144	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*	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.3 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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) 99.1 % 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	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.2 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	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*	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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Celey D. Keene, Lab Director/Quality Manager



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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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 % 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	64.0	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 87.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.3 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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		
Total BTEX	<0.300	0.300	02/19/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	64.0	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 86.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.6 % 42.2-156

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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		
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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Celey D. Keene, Lab Director/Quality Manager



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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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		
Total BTEX	<0.300	0.300	02/19/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	32.0	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	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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Celey D. Keene, Lab Director/Quality Manager



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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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		
Total BTEX	<0.300	0.300	02/19/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	48.0	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	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.1 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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		
Total BTEX	<0.300	0.300	02/19/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.0 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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	
Total BTEX	<0.300	0.300	02/19/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	96.0	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	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 83.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 86.6 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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	02/20/2020	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, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	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	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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Celey D. Keene, Lab Director/Quality Manager



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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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	02/20/2020	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 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	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	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 92.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 94.6 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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	02/20/2020	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 % 73.3-129

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	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	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

Surrogate: 1-Chlorooctadecane 97.0 % 42.2-156

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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	02/20/2020	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 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.5 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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	02/20/2020	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

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	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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	02/20/2020	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 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.6 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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	02/20/2020	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 % 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	304	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	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.3 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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	02/20/2020	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 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	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	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 100 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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	02/20/2020	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 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.5 % 42.2-156

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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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	02/20/2020	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 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		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	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 89.2 % 42.2-156

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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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	02/20/2020	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 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	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	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 72.4 % 42.2-156

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

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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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	02/20/2020	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 % 73.3-129

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	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 93.1 % 42.2-156

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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	02/20/2020	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 % 73.3-129

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	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.2 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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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:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

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	02/20/2020	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 % 73.3-129

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	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	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 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.8 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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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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*=Accredited Analyte

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Handwritten signature of Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <i>Apex</i>	P.O. #:	BILL TO	ANALYSIS REQUEST
Project Manager: <i>Self</i>	Company:		
Address:	Attn:		
City: <i>Hobbs</i>	Address:		
State: <i>NM</i> Zip: <i>88240</i>	City:		
Phone #: Fax #:	State:		
Project #: Project Owner:	Zip:		
Project Name: <i>Shell Gas #2</i>	Phone #:		
Project Location: <i>Shell Gas #2</i>	Fax #:		

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	REMARKS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
H000509	Ble3' 32.5663210	C	1							12:04	C	
	-103.2639942	C	1							12:08	Ext TPH	
	B203' 32.5663390	C	1							12:10	BTEX	
	-103.2639390	C	1							12:12		
	B303' 32.5663543	C	1							12:14		
	-103.2639011	C	1									
	B401' 32.5663558	C	1									
	-103.2638314	C	1									
	B501' 32.5663468	C	1									
	-103.2637941	C	1									

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Reinquired By: <i>[Signature]</i>	Date: <i>2/18</i>	Received By: <i>[Signature]</i>
Reinquired By: <i>[Signature]</i>	Date: <i>12/14</i>	Received By: <i>[Signature]</i>

Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY: (Initials)	Turnaround Time:	Standard	Bacteria (only)	Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>165</i>	<i>Rush</i>	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Observed Temp. °C
					<i>#113</i>		Corrected Temp. °C

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <i>Apex</i>	P.O. #:	BILL TO	ANALYSIS REQUEST
Project Manager: <i>Sally Brown</i>	Company:		
Address:	Attn:		
City: <i>Hobbs</i>	Address:		
Phone #:	City:		
Project #:	State:		
Project Name:	Zip:		
Project Location: <i>She 11G St #2</i>	Phone #:		
Sampler Name:	Fax #:		

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV	DATE	TIME	REMARKS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :				
<i>H000509</i>	<i>B12 @ 1' 32.5664227</i>	<i>C</i>	<i>1</i>							<i>3/18</i>	<i>12:26</i>	<i>C1</i>	
	<i>-103.2637514</i>											<i>Ext + PH</i>	
	<i>B13 @ 3' 32.5664532</i>	<i>C</i>	<i>1</i>								<i>12:30</i>	<i>BTEX</i>	
	<i>-103.2639396</i>												
	<i>B15 @ 3' 32.5664693</i>	<i>C</i>	<i>1</i>								<i>12:30</i>		
	<i>-103.2638734</i>												
	<i>B16 @ 3' 32.5664775</i>	<i>C</i>	<i>1</i>								<i>12:32</i>		
	<i>-103.2638324</i>												
	<i>B17 @ 3' 32.5664702</i>	<i>C</i>	<i>1</i>								<i>12:34</i>		
	<i>-103.2638025</i>												

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Relinquished By: <i>Dee Kreschke</i>	Date: <i>8/18</i>	Received By: <i>[Signature]</i>
Time: <i>15:44</i>		
Date:		
Time:		

Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY: (Initials)	Turnaround Time:	Standard	Bacteria (only)	Sample Condition
Sampler - UPS - Bus - Other:	<i>38°C</i>	Cool <input type="checkbox"/> Intact <input type="checkbox"/>	<i>HS</i>	Thermometer ID # <i>97</i>	<input checked="" type="checkbox"/> Rush	Cool <input type="checkbox"/> Intact <input type="checkbox"/>	Observed Temp. °C
	Corrected Temp. °C	Yes <input type="checkbox"/> No <input type="checkbox"/>		Correction Factor <i>+0.4°C</i>	<i>#113</i>	Yes <input type="checkbox"/> No <input type="checkbox"/>	Corrected Temp. °C
FORN-000-K-30		No <input type="checkbox"/> Yes <input type="checkbox"/>				No <input type="checkbox"/> Yes <input type="checkbox"/>	

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: W D & P Project Manager: Seff Brown		P.O. #: _____ Company: _____	
Address: _____ City: Hobbs State: NM Zip: 88240		Attn: _____ Address: _____	
Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____		City: _____ State: _____ Zip: _____	
Project Name: _____ Project Location: Shell GA ST #2		State: _____ Phone #: _____ Fax #: _____	
Sampler Name: _____ FOR LAB USE ONLY		BILL TO	
Lab I.D. _____ Sample I.D. _____		ANALYSIS REQUEST	
H000509 16 1360' 32.566 5151 -103.263 9485 17 1310' 32.566 5304 -103.263 9423 18 1320' 32.566 5384 -103.283 8957 19 1310' 32.566 5460 -103.263 9792 20 1320' 32.566 5899 -103.263 9388		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : DATE TIME 2/5 10:34 12:38 12:40 12:44 EXT TPH BTEX	
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Relinquished By: Que Pasaola Relinquished By: _____		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____ REMARKS: Email	
Delivered By: (Circle One) Observed Temp. °C 3.8°C Sampler - UPS - Bus - Other: Corrected Temp. °C _____		Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Checked BY: (Initials) 145 Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #97 Correction Factor +0.4°C #113 Bacteria (only) Sample Condition: Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C _____ Corrected Temp. °C _____	

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Company Name: <u>Apache</u> Project Manager: <u>Bruce Baker</u>		P.O. #: _____ Company: _____		
Address: _____ City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>		Attn: _____ Address: _____		
Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____		City: _____ State: _____ Zip: _____		
Project Name: _____ Project Location: <u>Shell CPA St #8</u>		Phone #: _____ Fax #: _____		
Sampler Name: <u>Joe Quasada Sr.</u>		Matrix: _____ PRESERV: _____ SAMPLING: _____		
FOR LAB USE ONLY				
Lab I.D. _____ Sample I.D. _____	(G)RAB OR (C)OMR # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: _____ ACID/BASE: ICE / COOL OTHER: _____	DATE TIME	ANALYSIS REQUEST	
<u>1000509</u>	<u>B2901' 32.566 7622</u>	<u>1</u>	<u>3/18 1:06</u>	<u>EXT TPH</u>
	<u>-103.264 6332</u>	<u>1</u>	<u>1:08</u>	<u>BTEX</u>
	<u>B2901' 32.566 7695</u>	<u>1</u>	<u>1:10</u>	
	<u>-103.264 0124</u>	<u>1</u>	<u>1:12</u>	
	<u>B3001' 32.566 7650</u>	<u>1</u>	<u>1:14</u>	
	<u>-103.263 9589</u>	<u>1</u>		
	<u>B3101' 32.566 7669</u>	<u>1</u>		
	<u>-103.263 9581</u>	<u>1</u>		
	<u>B3201' 32.566 7550</u>	<u>1</u>		
	<u>-103.264 1190</u>	<u>1</u>		

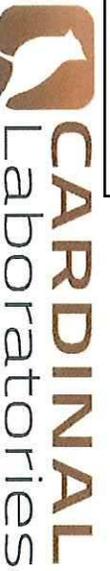
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Relinquished By: _____ Date: <u>8/18</u> Time: <u>15:48</u>	Received By: _____ Date: _____ Time: _____
Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____	
REMARKS: <u>Email</u>	

Delivered By: (Circle One) UPS <input type="checkbox"/> Bus <input type="checkbox"/> Other: _____	Observed Temp. °C: <u>3.82</u> Corrected Temp. °C: _____	Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Intact Yes <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: _____ (Initials) <u>JS</u>	Turnaround Time: _____ Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C: _____
--	---	--	---	--	---

FORW000 K330

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Apex</u>		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: <u>Bruce Baker</u>		Company:					
Address:		Attn:					
City: <u>Hobbs</u>		State: <u>NM</u> Zip: <u>88240</u>		Address:			
Phone #:		Project Owner:		City:			
Project #:		State:		Zip:			
Project Name:		Project Location: <u>Small GFA St # 2</u>		Phone #:			
Sampler Name: <u>See Quisenberry Jr.</u>		FOR LAB USE ONLY		Fax #:			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		DATE	TIME	CL	EXT TPH	BTEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL					
<u>H000504</u>	<u>B3301' 32.5647567</u>	<u>C</u>	<u>1</u>								<u>3/18</u>	<u>11:14</u>	<u>X</u>	<u>X</u>	<u>X</u>	
	<u>-103.2646785</u>	<u>C</u>	<u>1</u>										<u>X</u>	<u>X</u>	<u>X</u>	
	<u>3273 3401' 32.5647644</u>	<u>C</u>	<u>1</u>										<u>X</u>	<u>X</u>	<u>X</u>	
	<u>-103.2646559</u>	<u>C</u>	<u>1</u>										<u>X</u>	<u>X</u>	<u>X</u>	
	<u>3383501' 32.5647622</u>	<u>C</u>	<u>1</u>										<u>X</u>	<u>X</u>	<u>X</u>	
	<u>-03.2637799</u>	<u>C</u>	<u>1</u>										<u>X</u>	<u>X</u>	<u>X</u>	
	<u>34 B3401' 32.5647739</u>	<u>C</u>	<u>1</u>										<u>X</u>	<u>X</u>	<u>X</u>	
	<u>-103.2639484</u>	<u>C</u>	<u>1</u>										<u>X</u>	<u>X</u>	<u>X</u>	
	<u>35 B3501' 32.5647915</u>	<u>C</u>	<u>1</u>										<u>X</u>	<u>X</u>	<u>X</u>	
	<u>-103.2640741</u>	<u>C</u>	<u>1</u>										<u>X</u>	<u>X</u>	<u>X</u>	

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: See Quisenberry Jr. Date: 3/18 Time: 15:44 Received By: [Signature]

Delivered By: (Circle One) UPS Bus Other: Observed Temp. °C: 3.82 Corrected Temp. °C: 3.82 Sample Condition: Cool Intact Yes No Checked BY: (Initials) KS

Turnaround Time: Standard Standard Rush Bacteria (only) Cool Intact Yes No Sample Condition: Observed Temp. °C: Corrected Temp. °C:

Thermometer ID #97 Correction Factor 2.44 #113

REMARKS: Small

Verbal Result: Yes No Add'l Phone #: All Results are emailed. Please provide Email address:

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apache		P.O. #:		BILL TO		ANALYSIS REQUEST															
Project Manager: Bruce Baker		Company:																			
Address:		Attn:																			
City: Hobbs		State: NM Zip: 88240		Address:																	
Phone #:		Fax #:		City:																	
Project #:		Project Owner:		State:		Zip:															
Project Name:		Project Location: Shell GFA ST # 2		Phone #:																	
Sampler Name: Joe Chiswick Jr		Fax #:																			
FOR LAB USE ONLY																					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME							
H000509	B3801' 32.5668025 -103.2640537	C	1										2/18	1:24							
	B3701' 32.5668129 -103.2640245	C	1											1:26							
	B3801' 32.5668432 -103.2635675	C	1											1:28							
	B3901' 32.5668843 -103.2636262	C	1											1:30							
	B4001' 32.5668519 -103.2635259	C	1											1:32							
Relinquished By: Joe Chiswick Jr		Date: 2/18		Received By: [Signature]		Time: 15:50		REMARKS: Verbal Result: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: [Signature]		All Results are emailed. Please provide Email address:											
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		CHECKED BY: (Initials)		Turnaround Time:		Standard		Bacteria (only)		Sample Condition							
Sampler - UPS - Bus - Other:		3.82		Cool Intact		KS		Thermometer ID #97		Rush		Cool Intact		Observed Temp. °C							
Corrected Temp. °C				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				Correction Factor *1.04		4113		Yes <input type="checkbox"/> No <input type="checkbox"/>		Corrected Temp. °C							

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

55 fo 55 e8d

Company Name: <u>Apurva</u>		P.O. #:		BILL TO		ANALYSIS REQUEST									
Project Manager: <u>Beate Baker</u>		Company:													
Address:		City: <u>Hobbs</u>		State: <u>NM</u>		Zip: <u>88240</u>		Address:		City:		State:		Zip:	
Phone #:		Fax #:		Project Owner:		Project Name:		Project Location: <u>Shell CR St #2</u>		Sampler Name: <u>Yee Quasada</u>		FOR LAB USE ONLY			
Lab I.D. <u>400509</u>		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL	
<u>41</u>		<u>B43 @ 3" 32.5663481</u>		<u>C</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>	
<u>42</u>		<u>B44 @ 1' 32.5663377</u>		<u>C</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>	
<u>43</u>		<u>B45 @ 1' 32.5663334</u>		<u>C</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>	
<u>44</u>		<u>B46 @ 1' 32.5663286</u>		<u>C</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>		<u>1</u>	
		<u>-103.4631917</u>													
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Relinquished By: <u>Yee Quasada</u>		Date: <u>8/18</u>		Received By: <u>[Signature]</u>		Date: <u>8/18</u>		Time: <u>15:52</u>		Time: <u>1:40</u>		Turnaround Time: <u>Standard</u>		Bacteria (only) Sample Condition	
Relinquished By: <u>Yee Quasada</u>		Date: <u>8/18</u>		Received By: <u>[Signature]</u>		Date: <u>8/18</u>		Time: <u>15:52</u>		Time: <u>1:40</u>		Turnaround Time: <u>Rush</u>		Bacteria (only) Sample Condition	
Delivered By: (Circle One)		Observed Temp. °C <u>3.8°C</u>		Sample Condition		CHECKED BY: <u>[Signature]</u>		Thermometer ID # <u>97</u>		Correction Factor +0.4°C		Cool Intact <input checked="" type="checkbox"/>		Corrected Temp. °C	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact <input checked="" type="checkbox"/>		Intact Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/>		No <input type="checkbox"/>		Yes <input type="checkbox"/>		No <input type="checkbox"/>	
<p>REMARKS: <u>Email</u></p> <p>† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com</p>															



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

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/19/2020	Sampling Date:	02/19/2020
Reported:	02/24/2020	Sampling Type:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

BTEX 8021B		mg/kg		Analyzed 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 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.8 % 42.2-156

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/19/2020	Sampling Date:	02/19/2020
Reported:	02/24/2020	Sampling Type:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

BTEX 8021B		mg/kg		Analyzed 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 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
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		Analyzed 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 % 44.3-144

Surrogate: 1-Chlorooctadecane 85.3 % 42.2-156

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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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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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

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 accredited 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)

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



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

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" 32.5666332-103.264	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" 32.5664227-103.263	H000577-03	Soil	24-Feb-20 13:11	24-Feb-20 16:24
B 36 @ 1' 6" 32.5667739-103.263	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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Celey D. Keene, Lab Director/Quality Manager



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

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
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Cardinal Laboratories**Volatile Organic Compounds by 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 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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Celey D. Keene, Lab Director/Quality Manager



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

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
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B 16 @ 3' 6" 32.5664775-103.2638324

H000577-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	48.0		16.0	mg/kg	4	0022508	AC	25-Feb-20	4500-Cl-B	
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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	240		16.0	mg/kg	4	0022508	AC	25-Feb-20	4500-Cl-B	
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Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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
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Cardinal Laboratories**Volatile Organic Compounds by 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	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %	73.3-129		0022430	CK	25-Feb-20	8021B	

Petroleum Hydrocarbons by 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	
<i>Surrogate: 1-Chlorooctane</i>			91.2 %	44.3-144		0022426	CK	25-Feb-20	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			91.2 %	42.2-156		0022426	CK	25-Feb-20	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

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
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B 38 @ 1' 6" 32.5668025-103.2640537

H000577-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

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

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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
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B 42 @ 1' 32.5663518-103.2635259

H000577-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	0022509	AC	25-Feb-20	4500-CI-B	
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Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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
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B 6 @ 2' 32.5663815-103.2637576

H000577-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	416		16.0	mg/kg	4	0022509	AC	25-Feb-20	4500-Cl-B	
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Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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
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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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Celey D. Keene, Lab Director/Quality Manager



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

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

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0022430 - Volatiles**Blank (0022430-BLK1)**

Prepared: 24-Feb-20 Analyzed: 25-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: 24-Feb-20 Analyzed: 25-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: 24-Feb-20 Analyzed: 25-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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Celey D. Keene, Lab Director/Quality Manager



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

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

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0022426 - General Prep - Organics**Blank (0022426-BLK1)**

Prepared: 24-Feb-20 Analyzed: 25-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							
<i>Surrogate: 1-Chlorooctane</i>	51.2		mg/kg	50.0		102	44.3-144			
<i>Surrogate: 1-Chlorooctadecane</i>	53.6		mg/kg	50.0		107	42.2-156			

LCS (0022426-BS1)

Prepared: 24-Feb-20 Analyzed: 25-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			
<i>Surrogate: 1-Chlorooctane</i>	55.1		mg/kg	50.0		110	44.3-144			
<i>Surrogate: 1-Chlorooctadecane</i>	57.6		mg/kg	50.0		115	42.2-156			

LCS Dup (0022426-BSD1)

Prepared: 24-Feb-20 Analyzed: 25-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	
<i>Surrogate: 1-Chlorooctane</i>	59.3		mg/kg	50.0		119	44.3-144			
<i>Surrogate: 1-Chlorooctadecane</i>	60.9		mg/kg	50.0		122	42.2-156			

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Celey D. Keene, Lab Director/Quality Manager



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

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. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Apache		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Bruce Baker		Company:					
Address:		Attn:					
City: Hobbs		Address:					
State: NM Zip: 88240		City:					
Phone #:		State:					
Fax #:		Zip:					
Project #:		Project Owner:					
Project Name:		Phone #:					
Project Location: Small car state # 2		Fax #:					
Sampler Name: Joe Quisada		PRESERV:					
FOR LAB USE ONLY		DATE		TIME			
Lab I.D.		Sample I.D.					
Hoods 77		1325					
* 1		-103.264 32.5464775		2/24 11:53		10 Ext. TPH	
2		-103.264 32.5464775		2/24 12:15		Btex	
3		-103.263 32.5464775		2/24 13:11			
4		-103.263 32.5464775		2/24 15:05			
5		-103.264 32.5464775		2/24 15:07			

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Relinquished By: Joe Quisada Date: 2/24/20 Received By: Joe Quisada Date: 2/24/20

Delivered By: (Circle One) Observed Temp. °C: 3.8 Corrected Temp. °C: Sample Condition: Cool Intact Yes No

Thermometer ID #97 Correction Factor + 0.4 °C

Remarks: * Self revised sample ID: 3/10/20 cle

Standard Rush Bacteria (only) Sample Condition Cool Intact Yes No Corrected Temp. °C

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Apache</u>		P.O. #:		BILL TO		ANALYSIS REQUEST														
Project Manager: <u>Bruce Baker</u>		Company:																		
Address:		Attn:																		
City: <u>Hobbs</u>		State: <u>NM</u> zip: <u>88240</u>		Address:																
Phone #:		Fax #:		City:																
Project #:		Project Owner:		State:																
Project Name:		Phone #:		Zip:																
Project Location: <u>Shell Lab St 119</u>		Fax #:																		
Sampler Name: <u>Joe Casarider</u>																				
<small>FOR LAB USE ONLY</small>																				
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	(C) COOL	OTHER :	DATE	TIME						
<u>H00577</u>	<u>B42 01 32.5163518</u>	<input checked="" type="radio"/>	<u>1</u>			<u>1</u>					<input checked="" type="radio"/>		<u>2/24</u>	<u>15:30</u>						
	<u>-103.2635259</u>																			
	<u>7 B42 01 32.5163815</u>	<input type="radio"/>	<u>1</u>			<u>1</u>							<u>2/24</u>	<u>15:45</u>						
	<u>-103.2637576</u>																			
<p><small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small></p>																				
Relinquished By: <u>[Signature]</u>		Date: <u>2/24/20</u>		Received By: <u>[Signature]</u>		Date: <u>2/24/20</u>						Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:						
Relinquished By: <u>[Signature]</u>		Date: <u>16:24</u>		Received By: <u>[Signature]</u>		Date: <u>2/24/20</u>						All Results are emailed. Please provide Email address: <u>[Email]</u>		REMARKS:						
Delivered By: (Circle One)		Observed Temp. °C <u>3.8</u>		Corrected Temp. °C		Sample Condition		CHECKED BY: (Initials) <u>[Signature]</u>		Turnaround Time: <u>Standard</u>		Bacteria (only)		Sample Condition						
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				Thermometer ID #97		Cool <input type="checkbox"/> Intact <input type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>						
										Correction Factor + 0.4 °C		Cool <input type="checkbox"/> Intact <input type="checkbox"/>		Yes <input type="checkbox"/> No <input type="checkbox"/>						

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



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

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/10/2020	Sampling Date:	03/10/2020
Reported:	03/11/2020	Sampling Type:	Soil
Project Name:	SHELL G A ST #2	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W 18 (H000753-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/11/2020	ND	416	104	400	0.00	

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/11/2020	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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

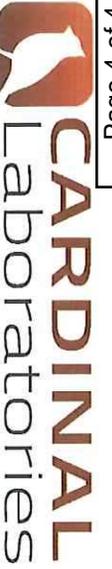
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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Apache</u>		P.O. #:		BILL TO		ANALYSIS REQUEST					
Project Manager: <u>Jeffrey Beem</u>		Company:									
Address:		Attn:									
City: <u>Hobbs</u> State: Zip:		Address:									
Phone #: Fax #:		City:									
Project #: Project Owner:		State:		Zip:							
Project Name:		Phone #:									
Project Location: <u>Shell GA St #2</u>		Fax #:									
Sampler Name: <u>Joe Quessada Jr.</u>		PRESERV:									
FOR LAB USE ONLY		SAMPLING									
Lab I.D. <u>4000753</u>		Sample I.D.									
		(G)RAB OR (C)OMP.									
		# CONTAINERS									
		GROUNDWATER									
		WASTEWATER									
		SOIL									
		SLUDGE									
		OTHER :									
		ACID/BASE:									
		OTHER :									
		DATE		TIME							
		3/10		11:57							
		3/10		12:20							

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Relinquished By: _____ Date: 3/10/20 Received By: _____
 Relinquished By: Joe Quessada Jr. Date: 10:22 Received By: _____

Delivered By: (Circle One) Observed Temp. °C 4.8°C Sample Condition Cool Intact Yes No
 Sampler - UPS - Bus - Other: Corrected Temp. °C _____

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



**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







