

Apache Corporation
Geronimo 28 State #2 SWD
2RP-5705

Final Remediation Report



2525 NW County Rd
Hobbs, NM 88240
[\(575\) 392-9996](tel:5753929996)

Introduction

This report presents the results of remediation activities at the Geronimo 28 State #2 SWD Transition Line. On behalf of Apache Corporation (Apache), Diamondback Disposal Services, Inc (Diamondback) was tasked with the cleanup and remediation of release 2RP-5705. The release occurred in Unit Letter I, Section 28, Township 17S, Range 28E at coordinates 32.80259, -104.17446. The remediation was performed in general accordance with the New Mexico Oil Conservation Division (NMOCD) rules and regulations for releases dated July 24, 2018.

Overview

The spill site is located mostly on state lease land consisting of grass, prairie, or range lands. Approximately 129 bbls of produced water was lost, with 30 bbls being recovered, due to a failed 4" poly to steel transition.

Regulatory Guidelines

Upon review of the site characteristics and a search of a groundwater database maintained by The New Mexico Office of the Stater Engineer (NMOSE) a survey was conducted to determine the average depth to groundwater within a one (1) mile radius of the release site and identify any registered water wells within a ½ mile radius of the release site. Several wells were identified as part of the NMOSE database search unfortunately none contained depth to groundwater information and, as such a soil boring was drilled at 32.798190, -104.177687 which falls within .5 miles of the spill location. The soil boring was advanced to a depth of approximately 104 feet bgs and subsequently gauged for the presence of groundwater. No groundwater was present to the total depth of the boring at 104 feet bgs. A summary report of the soil boring and ground water measurement activities is provided (See Attached). Table 1 Closure Criteria for ground water depth of more than 100ft was utilized beyond the root zone and closure criteria for less than 50 feet was utilized for the root zone

Table 1 NMAC 19.15.29.12 Closure Criteria for Soils Impacted by a Release		
<50 Feet	Chloride	600 mg/kg
	TPH (GRO+DRO+MRO)	100 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

Table 1 NMAC 19.15.29.12 Closure Criteria for Soils Impacted by a Release		
>100 Feet	Chloride	20,000 mg/kg
	TPH (GRO+DRO+MRO)	2,500 mg/kg
	GRO+DRO	1,000 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

Remediation Activities

Between the dates of January 13, 2021, and February 12th, 2021, Diamondback excavated approximately 4,860 cubic yards (cy) of impacted material, loaded, and transported to R-360 (Halfway Facility) for disposal. Average depth of excavation is approximately 4 feet below ground surface (bgs). Between the dates of January 18, 2021, and February 12th, 2021 the site was sampled to determine if RRAL's had been met. Five-point composite samples were collected, every 200 square feet for both wall and floor sections, packaged and delivered to a third-party lab, with chain of custody, for testing as per regulatory standards. (see attached analytical). Upon review of analytical, all floor samples prove to be below RRAL's for site closure. Being that the spill area was excavated to a depth of 4 feet bgs all restoration and reclamation standards have been met. All wall sections were also below Table 1 requirements. On February 1, 2021, a 20-mil reinforced HDPE liner was installed at 4 feet bgs, with sewed seams and properly seated at edges of excavation. Backfilling commenced from February 2, 2021, to February 12, 2022. A total of 4,860 cy of clean topsoil, similar to surrounding area, was imported and placed in excavation. Material was placed in a manner to promote compaction, crowned, and sloped to promote storm water runoff and erosion prevention. At locations where wall soil sample results exceeded allowed levels of Chloride and/or GRO+DRO+MRO, in these areas an additional 100 cy of material was excavated then impacted material was loaded, and transported to R-360 (Halfway Facility) for disposal. Five-point composite samples were collected, every 200 square feet for wall sections, packaged and delivered to a third-party lab, with chain of custody, for testing as per regulatory standards. Entire site, including un-excavated disturbed areas, will be seeded with State of NM Sandy Seed Mix at a rate of 30 lbs/acre during the next optimal growing season.

On December 16th, 2022 an IPS Hydrovac Truck was brought in to excavate at wall 13 in order to preserve the structural integrity of a line. The name W13 was replaced by two walls numbers as

follows: W1 @ 1-4' and W2 @ 1-4'. The expansion of the wall also created two additional floors which were labeled as B1 @ 4' and B2 @ 4'. Five-point composite samples were collected, every 200 square feet for both wall and floor sections, packaged and delivered to a third-party lab, with chain of custody, for testing as per regulatory standards. (see attached analytical). Upon review of additional analytical, all floor and Wall samples prove to be below RRAL's for site closure

Conclusions

Upon review of all analytical data provided by the third-party independent lab, results indicated that all recommended remediation action levels and restoration/reclamation criteria were met for all excavated areas. On behalf of the Apache Cooperation we respectfully request that the NMOCD grant closure approval for Geronimo 28 State #2 SWD ticket #2RP-5705. Thank You.

	4			
--	---	--	--	--

This page intentionally left blank

Incident ID	
District RP	
Facility ID	
Application ID	

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. Staff
Signature: Larry Baker Date: 11/3/2022
email: larry.baker@apachecorp.com Telephone: 432-215-2284

OCD Only

Received by: _____ Date: _____

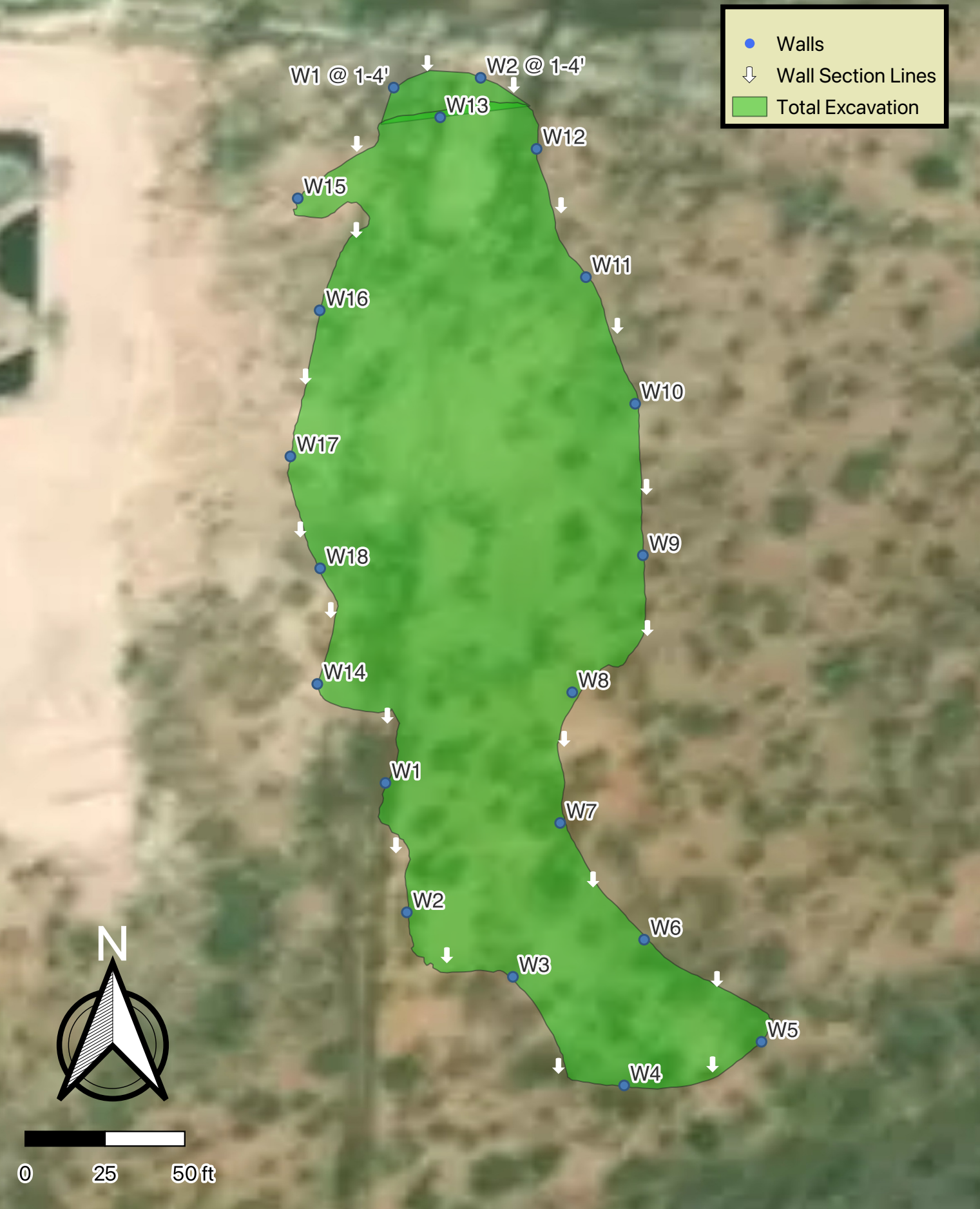
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
	SAMPLE ID	LAB ID NUMBER	SAMPLE DEPTH	SAMPLE DATE	SAMPLE TYPE	BENZENE	TOLUENE mg/ kg	ETHYL-BENZEN (mg/ kg)	TOTAL XYLENES mg/kg	TOTAL BTEX (mg/kg)	GRO C 6-C 10 (micrograms)	DRO C 6-C 10 (micrograms)	EXT DRO C 28- C36 (mg/kg)	TPH C6-C36 (mg/kg)	CHLORIDE (mg/kg)
1	W- 1 WALL	H210116-01	0'-4'	1/18/2021	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	352
2	W- 1 WALL	H213646-03	1'-4'	12/16/202	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
3	W- 2 WALL	H210116-02	0'-4'	1/18/2021	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	304
4	W- 2 WALL	H213646-03	1'-4'	12/16/2021	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
5	W- 3 WALL	H210116-03	0'-4'	1/18/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
6	W- 4 WALL	H210116-04	0'-4'	1/18/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	304
7	W- 5 WALL	H210116-05	0'-4'	1/18/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	448
8	W- 6 WALL	H210116-06	0'-4'	1/18/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
9	W- 7 WALL	H210116-07	0'-4'	1/18/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	160
10	W- 8 WALL	H210116-08	0'-4'	1/18/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	320
11	W- 9 WALL	H210116-09	0'-4'	1/18/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	128
12	W- 10 WALL	H210116-10	0'-4'	1/18/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64
13	W- 11 WALL	H210116-11	0'-4'	1/18/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	144
14	W- 12 WALL	H210116-12	0'-4'	1/18/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	144
15	W- 13 WALL	H210116-13	0'-4'	1/18/21	COMP										
16	W- 14 WALL	H210116-14	0'-4'	1/18/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	144
17	W- 15 WALL	H210190-01	0'-4'	1/26/20/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	272
18	W- 16 WALL	H210190-02	0'-4'	1/26/20/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	208
19	W- 17 WALL	H210190-03	0'-4'	1/26/20/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2600
20	W- 17 WALL	H210382-01	0'-4'	02/12/2021	COMP										112
21	W- 18 WALL	H210190-04	0'-4'	1/26/20/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2600
22	W- 18 WALL	H210382-02	0'-4'	02/12/2021	COMP										48.0

SAMPLE ID	LAB ID NUMBER	SAMPLE DEPHT	SAMPLE DATE	SAMPLE TYPE	BENZENE	TOLUENE mg/kg	ETHYL-BENZEN (mg/ kg)	TOTAL XYLENES mg/kg	TOTAL BTX (mg/kg)	GRO C 6-C 10 (mg/kg)	DRO C 6-C 10 (mg/kg)	EXT DRO C 28- C36 (mg/kg)	TPH C6-c36 (mg/kg)	CHLORIDE (mg/kg)
B- 1 FLOOR	H210116-15	4'	1/18/2021	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
B- 1 FLOOR	H210116-15	4'	12/16/2021	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	7600
B- 2 FLOOR	H213646-01	4'	1/18/2021	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	96.0
B- 2 FLOOR	H210116-16	4'	12/16/2021	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	8660
B- 3 FLOOR	H210116-17	4'	1/18/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	128
B- 4 FLOOR	H210116-18	4'	1/18/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	320
B- 5 FLOOR	H210116-19	4'	1/18/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112
B- 6 FLOOR	H210116-20	4'	1/18/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	224
B- 7 FLOOR	H210116-21	4'	1/18/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	672
B- 8 FLOOR	H210116-22	4'	1/18/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1640
B- 9 FLOOR	H210116-23	4'	1/18/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	896
B- 10 FLOOR	H210116-24	4'	1/18/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	960
B- 11 FLOOR	H210116-25	4'	1/18/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1380
B- 13 FLOOR	H210127-01	4'	1/19/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	320
B- 14 FLOOR	H210127-02	4'	1/19/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	320
B- 15 FLOOR	H210127-03	4'	1/19/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	3560
B- 16 FLOOR	H210127-04	4'	1/19/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	944
B- 17 FLOOR	H210127-05	4'	1/19/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	676
B- 18 FLOOR	H210127-06	4'	1/19/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2960
B- 19 FLOOR	H210127-07	4'	1/19/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2360
B- 20 FLOOR	H210127-08	4'	1/19/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	5280
B- 21 FLOOR	H210127-09	4'	1/19/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2000
B- 22 FLOOR	H210127-10	4'	1/19/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1250
B- 23 FLOOR	H210127-11	4'	1/19/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	4960
B- 24 FLOOR	H210127-12	4'	1/19/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	11.0	11.0	4960
B- 25 FLOOR	H210127-13	4'	1/19/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	3920
B- 26 FLOOR	H210127-14	4'	1/19/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	880
B- 27 FLOOR	H210127-15	4'	1/19/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	3400
B- 28 FLOOR	H210127-16	4'	1/19/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	6560
B- 29 FLOOR	H210127-17	4'	1/19/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1420
B- 30 FLOOR	H210127-18	4'	1/19/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1880
B- 31 FLOOR	H210127-19	4'	1/19/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	3480
B-32 FLOOR	H210127-20	4'	1/19/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	6720
B- 33 FLOOR	H210127-21	4'	1/19/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	6880
B- 34 FLOOR	H210127-22	4'	1/19/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	10400
B- 35 FLOOR	H210127-23	4'	1/19/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	6600
B- 36 FLOOR	H210127-24	4'	1/19/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	5060
B- 37 FLOOR	H210127-25	4'	1/19/21	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	256
B- 38 FLOOR	H210143-01	4'	1/28/22	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	720
B- 39 FLOOR	H210143-02	4'	1/28/22	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1170
B- 40 FLOOR	H210143-03	4'	1/28/22	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	256
B- 41 FLOOR	H210143-04	4'	1/28/22	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1300
B- 42 FLOOR	H210143-05	4'	1/28/22	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	896
B- 43 FLOOR	H210143-06	4'	1/28/22	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2280
B- 44 FLOOR	H210143-07	4'	1/28/22	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	4560
B- 45 FLOOR	H210143-08	4'	1/28/22	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	4560
B- 46 FLOOR	H210143-09	4'	1/28/22	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	5120
B- 47 FLOOR	H210143-10	4'	1/28/22	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	3680
B- 48 FLOOR	H210143-11	4'	1/28/22	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2000
B- 49 FLOOR	H210143-12	4'	1/28/22	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	6260
B- 50 FLOOR	H210143-13	4'	1/28/22	COMP	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	9860



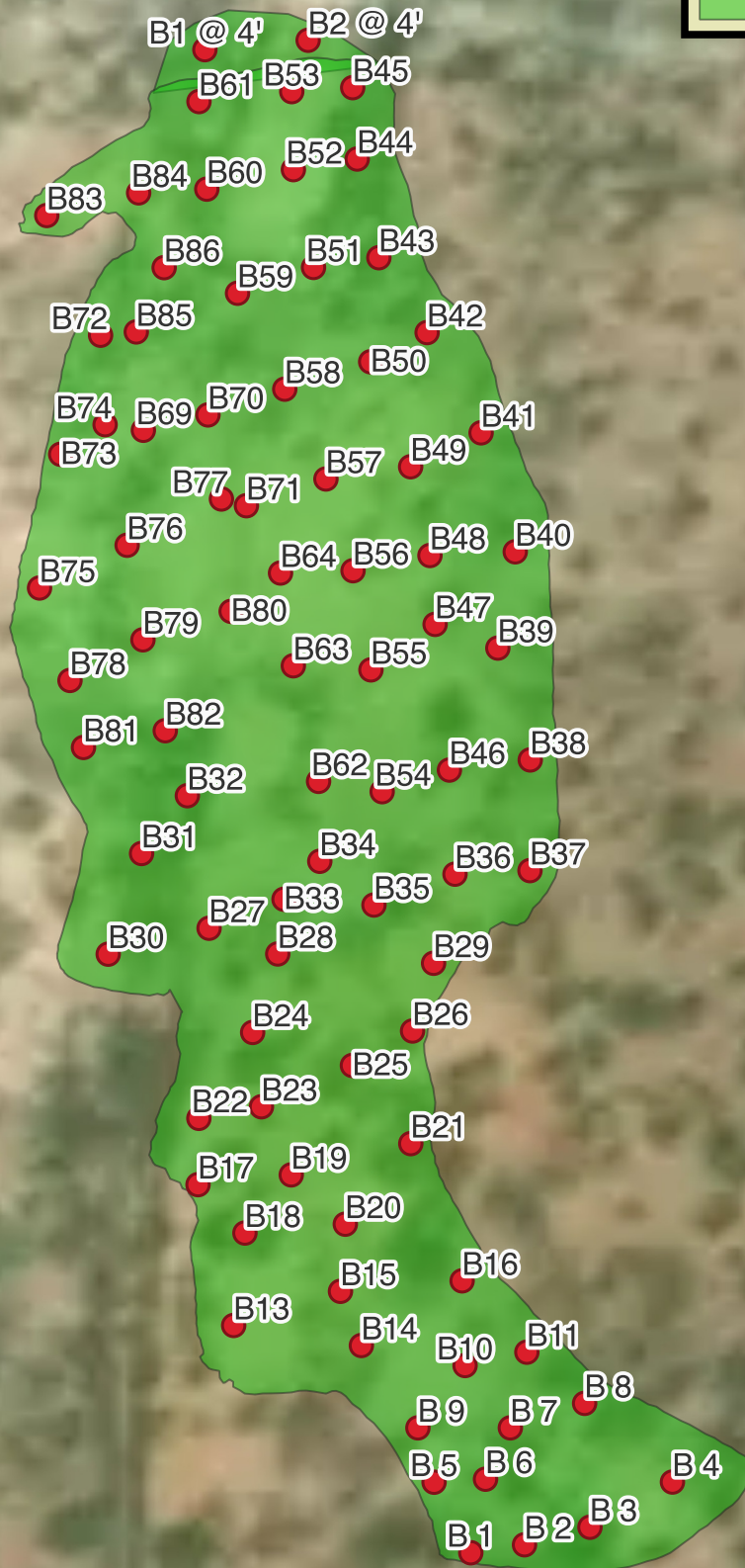
Wall Delineation
Apache

Geronimo 28 State SWD #002
Release District RP: 2RP-5705
Eddy County, New Mexico

Released to Imaging: 1/17/2023 11:07:23 AM



Diamondback Disposal
Services, Inc.
P.O. Box 2491
Hobbs, NM 88241
575-392-9996



Floor Map
Apache

Geronimo 28 State SWD #002
Release District RP: 2RP-5705
Eddy County, New Mexico

Released to Imaging: 1/17/2023 11:07:23 AM



Diamondback Disposal
Services, Inc.
P.O. Box 2491
Hobbs, NM 88241
575-392-9996

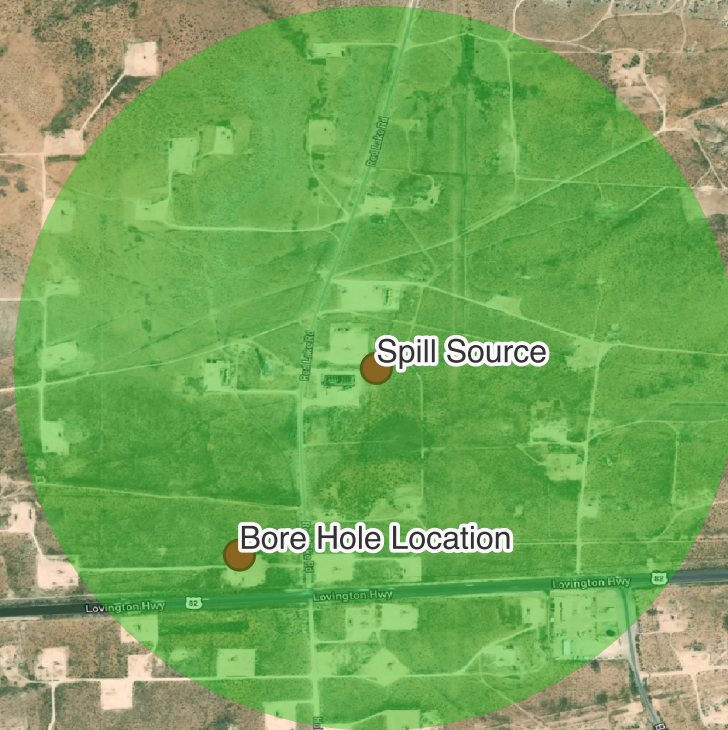
Desert Sand Water Well Services, LLC.

Soil Bore Report

[illegible]

1/2 Mile Radius

Significant Location



Soil Boring Map
Apache
Geronimo 28 State SWD #002
Release District RP: 2RP-5705
Eddy County New Mexico



Diamondback Disposal Services, Inc
P.O. Box 2491
Hobbs, NM 88241
575-392-9996

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	NRM1932357560
District RP	2RP-5705
Facility ID	
Application ID	pRM1932357729

Release Notification R7KN7-191022-C-1410

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)
Contact Mailing Address: 2350 W. Marland Blvd, Hobbs, NM 88240	

Location of Release Source

Latitude: W 32.80259 Longitude: N -104.17446

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: GERONIMO 28 STATE SWD #002	Site Type: Line
Date Release Discovered: October 11, 2019	API #

Unit Letter	Section	Township	Range	County
I	28	17S	28E	Eddy

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: Not Applicable)

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 (<i>not applicable</i>)	Volume Recovered (<i>not applicable</i>)
<input checked="" type="checkbox"/> Produced Water	Volume Released (<i>129 barrels</i>)	Volume Recovered (<i>30 barrels</i>)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<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

Poly to steel 4" transition failed.


State of New Mexico
Oil Conservation Division

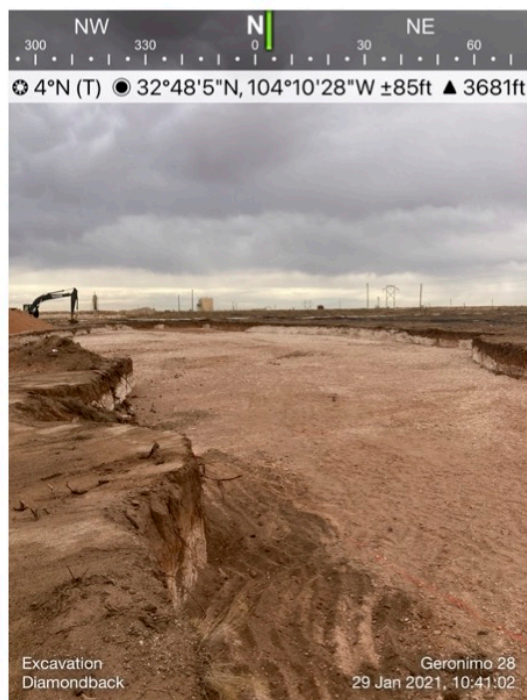
Incident ID	NRM1932357560
District RP	2RP-5705
Facility ID	
Application ID	pRM1932357729

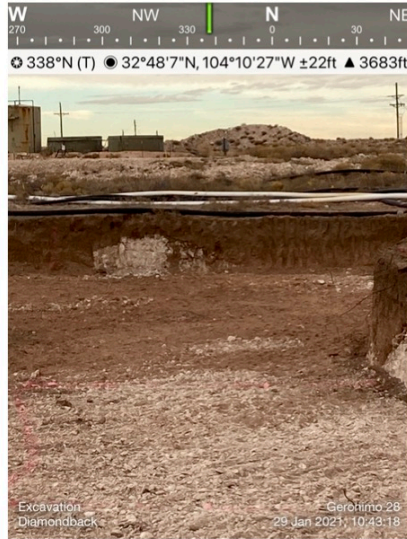
Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Release is greater than 5 barrels.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Via email given to NM OCD by Jeff Broom, Environmental Technician, Apache Corporation.	

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 checked="" 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: 	
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>Jeff Broom</u>	Title: <u>Environmental Technician</u>
Signature: <u></u>	Date: <u>10/22/2019</u>
Email: <u>Jeffrey.Broom@apachecorp.com</u>	Telephone: <u>(432) 664-4677</u>
<u>OCD Only</u> Received by: <u>Ramona Marcus</u> Date: <u>11/19/2019</u>	











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

January 21, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: GERONIMO #28

Enclosed are the results of analyses for samples received by the laboratory on 01/18/21 16:36.

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

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

Received:	01/18/2021	Sampling Date:	01/18/2021
Reported:	01/21/2021	Sampling Type:	Soil
Project Name:	GERONIMO #28	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: W 1 (H210116-01)

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	01/19/2021	ND	2.08	104	2.00	3.33	
Toluene*	<0.050	0.050	01/19/2021	ND	2.10	105	2.00	3.91	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.06	103	2.00	4.07	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.34	106	6.00	3.40	
Total BTEX	<0.300	0.300	01/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	352	16.0	01/20/2021	ND	400	100	400	3.92	

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	01/20/2021	ND	203	102	200	0.487	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	165	82.5	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 82.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.7 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/18/2021	Sampling Date:	01/18/2021
Reported:	01/21/2021	Sampling Type:	Soil
Project Name:	GERONIMO #28	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: W 2 (H210116-02)

BTX 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	01/19/2021	ND	2.08	104	2.00	3.33	
Toluene*	<0.050	0.050	01/19/2021	ND	2.10	105	2.00	3.91	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.06	103	2.00	4.07	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.34	106	6.00	3.40	
Total BTX	<0.300	0.300	01/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	304	16.0	01/20/2021	ND	400	100	400	3.92	

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	01/20/2021	ND	203	102	200	0.487	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	165	82.5	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 59.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 59.9 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/18/2021
 Reported: 01/21/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: W 3 (H210116-03)

BTX 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	01/19/2021	ND	2.08	104	2.00	3.33	
Toluene*	<0.050	0.050	01/19/2021	ND	2.10	105	2.00	3.91	
Ethylbenzene*	<0.050	0.050	01/19/2021	ND	2.06	103	2.00	4.07	
Total Xylenes*	<0.150	0.150	01/19/2021	ND	6.34	106	6.00	3.40	
Total BTX	<0.300	0.300	01/19/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/20/2021	ND	400	100	400	3.92	

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	01/20/2021	ND	203	102	200	0.487	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	165	82.5	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 74.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 74.6 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/18/2021
 Reported: 01/21/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: W 4 (H210116-04)

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	01/20/2021	ND	2.08	104	2.00	3.33	
Toluene*	<0.050	0.050	01/20/2021	ND	2.10	105	2.00	3.91	
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.06	103	2.00	4.07	
Total Xylenes*	<0.150	0.150	01/20/2021	ND	6.34	106	6.00	3.40	
Total BTEx	<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	01/20/2021	ND	400	100	400	3.92	

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	01/20/2021	ND	203	102	200	0.487	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	165	82.5	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 82.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.8 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/18/2021
 Reported: 01/21/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: W 5 (H210116-05)

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	01/20/2021	ND	2.08	104	2.00	3.33	
Toluene*	<0.050	0.050	01/20/2021	ND	2.10	105	2.00	3.91	
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.06	103	2.00	4.07	
Total Xylenes*	<0.150	0.150	01/20/2021	ND	6.34	106	6.00	3.40	
Total BTEx	<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	448	16.0	01/20/2021	ND	400	100	400	3.92	

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	01/20/2021	ND	203	102	200	0.487	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	165	82.5	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 80.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.7 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/18/2021	Sampling Date:	01/18/2021
Reported:	01/21/2021	Sampling Type:	Soil
Project Name:	GERONIMO #28	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: W 6 (H210116-06)

BTX 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	01/20/2021	ND	2.08	104	2.00	3.33	
Toluene*	<0.050	0.050	01/20/2021	ND	2.10	105	2.00	3.91	
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.06	103	2.00	4.07	
Total Xylenes*	<0.150	0.150	01/20/2021	ND	6.34	106	6.00	3.40	
Total BTX	<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	80.0	16.0	01/20/2021	ND	400	100	400	3.92	

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	01/20/2021	ND	203	102	200	0.487	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	165	82.5	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 82.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.3 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/18/2021
 Reported: 01/21/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: W 7 (H210116-07)

BTX 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	01/20/2021	ND	2.08	104	2.00	3.33	
Toluene*	<0.050	0.050	01/20/2021	ND	2.10	105	2.00	3.91	
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.06	103	2.00	4.07	
Total Xylenes*	<0.150	0.150	01/20/2021	ND	6.34	106	6.00	3.40	
Total BTX	<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/20/2021	ND	400	100	400	3.92	

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	01/20/2021	ND	203	102	200	0.487	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	165	82.5	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 82.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 82.6 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/18/2021
 Reported: 01/21/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: W 8 (H210116-08)

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	01/20/2021	ND	2.08	104	2.00	3.33	
Toluene*	<0.050	0.050	01/20/2021	ND	2.10	105	2.00	3.91	
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.06	103	2.00	4.07	
Total Xylenes*	<0.150	0.150	01/20/2021	ND	6.34	106	6.00	3.40	
Total BTEx	<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	320	16.0	01/20/2021	ND	400	100	400	3.92	

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	01/20/2021	ND	203	102	200	0.487	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	165	82.5	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 80.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.8 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/18/2021
 Reported: 01/21/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: W 9 (H210116-09)

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	01/20/2021	ND	2.08	104	2.00	3.33	
Toluene*	<0.050	0.050	01/20/2021	ND	2.10	105	2.00	3.91	
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.06	103	2.00	4.07	
Total Xylenes*	<0.150	0.150	01/20/2021	ND	6.34	106	6.00	3.40	
Total BTEx	<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	128	16.0	01/20/2021	ND	400	100	400	3.92	

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	01/20/2021	ND	203	102	200	0.487	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	165	82.5	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 78.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.2 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/18/2021	Sampling Date:	01/18/2021
Reported:	01/21/2021	Sampling Type:	Soil
Project Name:	GERONIMO #28	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: W 10 (H210116-10)

BTX 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	01/20/2021	ND	2.08	104	2.00	3.33	
Toluene*	<0.050	0.050	01/20/2021	ND	2.10	105	2.00	3.91	
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.06	103	2.00	4.07	
Total Xylenes*	<0.150	0.150	01/20/2021	ND	6.34	106	6.00	3.40	
Total BTX	<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	01/20/2021	ND	400	100	400	3.92	

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	01/20/2021	ND	203	102	200	0.487	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	165	82.5	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 79.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 80.4 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/18/2021	Sampling Date:	01/18/2021
Reported:	01/21/2021	Sampling Type:	Soil
Project Name:	GERONIMO #28	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: W 11 (H210116-11)

BTX 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	01/20/2021	ND	2.08	104	2.00	3.33	
Toluene*	<0.050	0.050	01/20/2021	ND	2.10	105	2.00	3.91	
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.06	103	2.00	4.07	
Total Xylenes*	<0.150	0.150	01/20/2021	ND	6.34	106	6.00	3.40	
Total BTX	<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	144	16.0	01/20/2021	ND	400	100	400	3.92		

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	01/20/2021	ND	203	102	200	0.487	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	165	82.5	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 74.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 75.9 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/18/2021	Sampling Date:	01/18/2021
Reported:	01/21/2021	Sampling Type:	Soil
Project Name:	GERONIMO #28	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: W 12 (H210116-12)

BTX 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	01/20/2021	ND	2.11	106	2.00	0.143	
Toluene*	<0.050	0.050	01/20/2021	ND	2.09	104	2.00	0.206	
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.04	102	2.00	0.666	
Total Xylenes*	<0.150	0.150	01/20/2021	ND	5.98	99.7	6.00	0.764	
Total BTX	<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	144	16.0	01/20/2021	ND	400	100	400	3.92	

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	01/20/2021	ND	203	102	200	0.487	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	165	82.5	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 77.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.5 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/18/2021	Sampling Date:	01/18/2021
Reported:	01/21/2021	Sampling Type:	Soil
Project Name:	GERONIMO #28	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: W 13 (H210116-13)

BTX 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	01/20/2021	ND	2.11	106	2.00	0.143	
Toluene*	<0.050	0.050	01/20/2021	ND	2.09	104	2.00	0.206	
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.04	102	2.00	0.666	
Total Xylenes*	<0.150	0.150	01/20/2021	ND	5.98	99.7	6.00	0.764	
Total BTX	<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 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	1040	16.0	01/20/2021	ND	400	100	400	3.92	

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	01/20/2021	ND	203	102	200	0.487	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	165	82.5	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 80.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.6 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/18/2021
 Reported: 01/21/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: W 14 (H210116-14)

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	01/20/2021	ND	2.11	106	2.00	0.143	
Toluene*	<0.050	0.050	01/20/2021	ND	2.09	104	2.00	0.206	
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.04	102	2.00	0.666	
Total Xylenes*	<0.150	0.150	01/20/2021	ND	5.98	99.7	6.00	0.764	
Total BTEX	<0.300	0.300	01/20/2021	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	320	16.0	01/20/2021	ND	400	100	400	3.92	

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	01/20/2021	ND	203	102	200	0.487	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	165	82.5	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 82.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 84.6 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/18/2021
 Reported: 01/21/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: B 1 (H210116-15)

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	01/20/2021	ND	2.11	106	2.00	0.143		
Toluene*	<0.050	0.050	01/20/2021	ND	2.09	104	2.00	0.206		
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.04	102	2.00	0.666		
Total Xylenes*	<0.150	0.150	01/20/2021	ND	5.98	99.7	6.00	0.764		
Total BTEX	<0.300	0.300	01/20/2021	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	32.0	16.0	01/20/2021	ND	400	100	400	3.92	

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	01/20/2021	ND	203	102	200	0.487	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	165	82.5	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 72.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 71.7 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/18/2021
 Reported: 01/21/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: B 2 (H210116-16)

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	01/20/2021	ND	2.11	106	2.00	0.143		
Toluene*	<0.050	0.050	01/20/2021	ND	2.09	104	2.00	0.206		
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.04	102	2.00	0.666		
Total Xylenes*	<0.150	0.150	01/20/2021	ND	5.98	99.7	6.00	0.764		
Total BTEX	<0.300	0.300	01/20/2021	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	96.0	16.0	01/20/2021	ND	400	100	400	3.92	

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	01/20/2021	ND	203	102	200	0.487	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	165	82.5	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 77.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.5 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/18/2021	Sampling Date:	01/18/2021
Reported:	01/21/2021	Sampling Type:	Soil
Project Name:	GERONIMO #28	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: B 3 (H210116-17)

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	01/20/2021	ND	2.11	106	2.00	0.143		
Toluene*	<0.050	0.050	01/20/2021	ND	2.09	104	2.00	0.206		
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.04	102	2.00	0.666		
Total Xylenes*	<0.150	0.150	01/20/2021	ND	5.98	99.7	6.00	0.764		
Total BTEx	<0.300	0.300	01/20/2021	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	128	16.0	01/20/2021	ND	400	100	400	3.92	

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	01/20/2021	ND	203	102	200	0.487	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	165	82.5	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 76.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 77.1 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/18/2021
 Reported: 01/21/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: B 4 (H210116-18)

BTX 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	01/20/2021	ND	2.11	106	2.00	0.143	
Toluene*	<0.050	0.050	01/20/2021	ND	2.09	104	2.00	0.206	
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.04	102	2.00	0.666	
Total Xylenes*	<0.150	0.150	01/20/2021	ND	5.98	99.7	6.00	0.764	
Total BTX	<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	320	16.0	01/20/2021	ND	400	100	400	3.92	

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	01/20/2021	ND	203	102	200	0.487	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	165	82.5	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 82.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.0 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/18/2021
 Reported: 01/21/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: B 5 (H210116-19)

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	01/20/2021	ND	2.11	106	2.00	0.143		
Toluene*	<0.050	0.050	01/20/2021	ND	2.09	104	2.00	0.206		
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.04	102	2.00	0.666		
Total Xylenes*	<0.150	0.150	01/20/2021	ND	5.98	99.7	6.00	0.764		
Total BTEx	<0.300	0.300	01/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/20/2021	ND	400	100	400	3.92	

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	01/20/2021	ND	203	102	200	0.487	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	165	82.5	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 76.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 77.9 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/18/2021
 Reported: 01/21/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: B 6 (H210116-20)

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	01/20/2021	ND	2.11	106	2.00	0.143		
Toluene*	<0.050	0.050	01/20/2021	ND	2.09	104	2.00	0.206		
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.04	102	2.00	0.666		
Total Xylenes*	<0.150	0.150	01/20/2021	ND	5.98	99.7	6.00	0.764		
Total BTEx	<0.300	0.300	01/20/2021	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	224	16.0	01/20/2021	ND	400	100	400	3.92		

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	01/20/2021	ND	221	110	200	9.33	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	225	113	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 91.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.9 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/18/2021	Sampling Date:	01/18/2021
Reported:	01/21/2021	Sampling Type:	Soil
Project Name:	GERONIMO #28	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: B 7 (H210116-21)

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	01/20/2021	ND	2.11	106	2.00	0.143	
Toluene*	<0.050	0.050	01/20/2021	ND	2.09	104	2.00	0.206	
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.04	102	2.00	0.666	
Total Xylenes*	<0.150	0.150	01/20/2021	ND	5.98	99.7	6.00	0.764	
Total BTEX	<0.300	0.300	01/20/2021	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	672	16.0	01/20/2021	ND	400	100	400	3.92	

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	01/20/2021	ND	221	110	200	9.33	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	225	113	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 97.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 93.9 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/18/2021
 Reported: 01/21/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: B 8 (H210116-22)

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	01/20/2021	ND	2.18	109	2.00	3.51	
Toluene*	<0.050	0.050	01/20/2021	ND	2.19	110	2.00	4.69	
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.18	109	2.00	6.30	
Total Xylenes*	<0.150	0.150	01/20/2021	ND	6.36	106	6.00	6.43	
Total BTEx	<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	1640	16.0	01/20/2021	ND	400	100	400	3.92		

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	01/20/2021	ND	221	110	200	9.33	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	225	113	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.9 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/18/2021	Sampling Date:	01/18/2021
Reported:	01/21/2021	Sampling Type:	Soil
Project Name:	GERONIMO #28	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: B 9 (H210116-23)

BTX 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	01/20/2021	ND	2.18	109	2.00	3.51		
Toluene*	<0.050	0.050	01/20/2021	ND	2.19	110	2.00	4.69		
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.18	109	2.00	6.30		
Total Xylenes*	<0.150	0.150	01/20/2021	ND	6.36	106	6.00	6.43		
Total BTX	<0.300	0.300	01/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	896	16.0	01/20/2021	ND	400	100	400	3.92	

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	01/20/2021	ND	221	110	200	9.33	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	225	113	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 98.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.0 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/18/2021
 Reported: 01/21/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/18/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: B 10 (H210116-24)

BTX 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	01/20/2021	ND	2.18	109	2.00	3.51	
Toluene*	<0.050	0.050	01/20/2021	ND	2.19	110	2.00	4.69	
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.18	109	2.00	6.30	
Total Xylenes*	<0.150	0.150	01/20/2021	ND	6.36	106	6.00	6.43	
Total BTX	<0.300	0.300	01/20/2021	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	960	16.0	01/20/2021	ND	400	100	400	3.92	

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	01/20/2021	ND	221	110	200	9.33	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	225	113	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 98.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 94.0 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/18/2021	Sampling Date:	01/18/2021
Reported:	01/21/2021	Sampling Type:	Soil
Project Name:	GERONIMO #28	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: B 11 (H210116-25)

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	01/20/2021	ND	2.18	109	2.00	3.51	
Toluene*	<0.050	0.050	01/20/2021	ND	2.19	110	2.00	4.69	
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.18	109	2.00	6.30	
Total Xylenes*	<0.150	0.150	01/20/2021	ND	6.36	106	6.00	6.43	
Total BTEx	<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	1380	16.0	01/20/2021	ND	400	100	400	3.92	

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	01/20/2021	ND	221	110	200	9.33	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	225	113	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 90.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.7 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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

A handwritten signature in black ink, 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

[illegible]



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apache Project Manager: Bruce Baker Address: City: Hobbs State: NM Zip: 88240 Phone #: Fax #: Project Owner: Project #: Project Location: Cecchino St Sample Name: Joe Casade FOR LAB USE ONLY Lab I.D. Sample I.D.						P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:		BILL TO						ANALYSIS REQUEST									
<p>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.</p>																							
Relinquished By: _____ Date: 11/18/21 Received By: Jodi Member Relinquished By: _____ Date: 11/30 Received By: _____ Time: _____ Remarks: _____																							
Delivered By: (Circle One) Observed Temp. °C 2.4 Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Corrected Temp. °C _____ Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>												Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #97113 Bacteria (only) Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Correction Factor +0.4°C Observed Temp. °C _____ Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C _____											

H2/D1/L16	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	EX+TPH	BTEX							
		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	(CB) COOL											OTHER :
11	11									11/18	12:16	/	/	/						
12	12										12:18	/	/	/						
13	13										12:20	/	/	/						
14	14										2:00	/	/	/						
15	15										3:10	/	/	/						
16	16										3:12	/	/	/						
17	17										3:14	/	/	/						
18	18										3:16	/	/	/						
19	19										3:18	/	/	/						
20	20										3:20	/	/	/						



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

January 21, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: GERONIMO #28

Enclosed are the results of analyses for samples received by the laboratory on 01/19/21 16:42.

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

Cardinal Laboratories is 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 fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/19/2021	Sampling Date:	01/19/2021
Reported:	01/21/2021	Sampling Type:	Soil
Project Name:	GERONIMO #28	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B 13 (H210127-01)

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	01/21/2021	ND	2.14	107	2.00	0.693	
Toluene*	<0.050	0.050	01/21/2021	ND	2.11	105	2.00	0.742	
Ethylbenzene*	<0.050	0.050	01/21/2021	ND	2.07	103	2.00	0.759	
Total Xylenes*	<0.150	0.150	01/21/2021	ND	6.03	101	6.00	0.903	
Total BTEX	<0.300	0.300	01/21/2021	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	320	16.0	01/21/2021	ND	416	104	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	01/20/2021	ND	228	114	200	2.21	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	243	122	200	0.519	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 98.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.0 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/19/2021
 Reported: 01/21/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/19/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 14 (H210127-02)

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	01/21/2021	ND	2.14	107	2.00	0.693	
Toluene*	<0.050	0.050	01/21/2021	ND	2.11	105	2.00	0.742	
Ethylbenzene*	<0.050	0.050	01/21/2021	ND	2.07	103	2.00	0.759	
Total Xylenes*	<0.150	0.150	01/21/2021	ND	6.03	101	6.00	0.903	
Total BTEx	<0.300	0.300	01/21/2021	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	320	16.0	01/21/2021	ND	416	104	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	01/20/2021	ND	228	114	200	2.21	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	243	122	200	0.519	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 94.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.7 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/19/2021	Sampling Date:	01/19/2021
Reported:	01/21/2021	Sampling Type:	Soil
Project Name:	GERONIMO #28	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B 15 (H210127-03)

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	01/20/2021	ND	2.09	105	2.00	2.24		
Toluene*	<0.050	0.050	01/20/2021	ND	2.11	106	2.00	3.03		
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.08	104	2.00	3.49		
Total Xylenes*	<0.150	0.150	01/20/2021	ND	6.38	106	6.00	3.09		
Total BTEx	<0.300	0.300	01/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	3560	16.0	01/21/2021	ND	416	104	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	01/20/2021	ND	228	114	200	2.21	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	243	122	200	0.519	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 94.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.3 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/19/2021	Sampling Date:	01/19/2021
Reported:	01/21/2021	Sampling Type:	Soil
Project Name:	GERONIMO #28	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B 16 (H210127-04)

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	01/20/2021	ND	2.09	105	2.00	2.24		
Toluene*	<0.050	0.050	01/20/2021	ND	2.11	106	2.00	3.03		
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.08	104	2.00	3.49		
Total Xylenes*	<0.150	0.150	01/20/2021	ND	6.38	106	6.00	3.09		
Total BTEx	<0.300	0.300	01/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	944	16.0	01/21/2021	ND	416	104	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	01/20/2021	ND	228	114	200	2.21	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	243	122	200	0.519	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 95.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 93.5 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/19/2021
 Reported: 01/21/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/19/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 17 (H210127-05)

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	01/20/2021	ND	2.09	105	2.00	2.24		
Toluene*	<0.050	0.050	01/20/2021	ND	2.11	106	2.00	3.03		
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.08	104	2.00	3.49		
Total Xylenes*	<0.150	0.150	01/20/2021	ND	6.38	106	6.00	3.09		
Total BTEx	<0.300	0.300	01/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	976	16.0	01/21/2021	ND	416	104	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	01/20/2021	ND	228	114	200	2.21	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	243	122	200	0.519	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 92.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 86.7 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/19/2021
 Reported: 01/21/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/19/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 18 (H210127-06)

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	01/20/2021	ND	2.09	105	2.00	2.24		
Toluene*	<0.050	0.050	01/20/2021	ND	2.11	106	2.00	3.03		
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.08	104	2.00	3.49		
Total Xylenes*	<0.150	0.150	01/20/2021	ND	6.38	106	6.00	3.09		
Total BTEx	<0.300	0.300	01/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	2960	16.0	01/21/2021	ND	416	104	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	01/20/2021	ND	228	114	200	2.21	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	243	122	200	0.519	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 114 % 44.3-144

Surrogate: 1-Chlorooctadecane 107 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/19/2021
 Reported: 01/21/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/19/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 19 (H210127-07)

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	01/20/2021	ND	2.09	105	2.00	2.24	
Toluene*	<0.050	0.050	01/20/2021	ND	2.11	106	2.00	3.03	
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.08	104	2.00	3.49	
Total Xylenes*	<0.150	0.150	01/20/2021	ND	6.38	106	6.00	3.09	
Total BTEx	<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	2360	16.0	01/21/2021	ND	416	104	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	01/20/2021	ND	228	114	200	2.21	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	243	122	200	0.519	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 86.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.4 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/19/2021
 Reported: 01/21/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/19/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 20 (H210127-08)

BTX 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	01/20/2021	ND	2.09	105	2.00	2.24	
Toluene*	<0.050	0.050	01/20/2021	ND	2.11	106	2.00	3.03	
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.08	104	2.00	3.49	
Total Xylenes*	<0.150	0.150	01/20/2021	ND	6.38	106	6.00	3.09	
Total BTX	<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	5280	16.0	01/21/2021	ND	416	104	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	01/20/2021	ND	228	114	200	2.21	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	243	122	200	0.519	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 92.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.9 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/19/2021
 Reported: 01/21/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/19/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 21 (H210127-09)

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	01/20/2021	ND	2.09	105	2.00	2.24	
Toluene*	<0.050	0.050	01/20/2021	ND	2.11	106	2.00	3.03	
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.08	104	2.00	3.49	
Total Xylenes*	<0.150	0.150	01/20/2021	ND	6.38	106	6.00	3.09	
Total BTEx	<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	2000	16.0	01/21/2021	ND	416	104	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	01/20/2021	ND	228	114	200	2.21	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	243	122	200	0.519	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 85.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 86.5 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/19/2021
 Reported: 01/21/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/19/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 22 (H210127-10)

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	01/20/2021	ND	2.09	105	2.00	2.24	
Toluene*	<0.050	0.050	01/20/2021	ND	2.11	106	2.00	3.03	
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.08	104	2.00	3.49	
Total Xylenes*	<0.150	0.150	01/20/2021	ND	6.38	106	6.00	3.09	
Total BTEx	<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	1250	16.0	01/21/2021	ND	416	104	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	01/20/2021	ND	228	114	200	2.21	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	243	122	200	0.519	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					

Surrogate: 1-Chlorooctane 88.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.3 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/19/2021
 Reported: 01/21/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/19/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 23 (H210127-11)

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	01/20/2021	ND	2.09	105	2.00	2.24	
Toluene*	<0.050	0.050	01/20/2021	ND	2.11	106	2.00	3.03	
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.08	104	2.00	3.49	
Total Xylenes*	<0.150	0.150	01/20/2021	ND	6.38	106	6.00	3.09	
Total BTEx	<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	4960	16.0	01/21/2021	ND	416	104	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	01/21/2021	ND	233	117	200	1.52	
DRO >C10-C28*	<10.0	10.0	01/21/2021	ND	246	123	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	01/21/2021	ND					

Surrogate: 1-Chlorooctane 100 % 44.3-144

Surrogate: 1-Chlorooctadecane 93.7 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/19/2021
 Reported: 01/21/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/19/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 24 (H210127-12)

BTX 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	01/20/2021	ND	2.09	105	2.00	2.24	
Toluene*	<0.050	0.050	01/20/2021	ND	2.11	106	2.00	3.03	
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.08	104	2.00	3.49	
Total Xylenes*	<0.150	0.150	01/20/2021	ND	6.38	106	6.00	3.09	
Total BTX	<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	4960	16.0	01/21/2021	ND	416	104	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	01/21/2021	ND	233	117	200	1.52	
DRO >C10-C28*	<10.0	10.0	01/21/2021	ND	246	123	200	3.07	
EXT DRO >C28-C36	11.0	10.0	01/21/2021	ND					

Surrogate: 1-Chlorooctane 97.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.7 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/19/2021
 Reported: 01/21/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/19/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 25 (H210127-13)

BTX 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	01/20/2021	ND	2.09	105	2.00	2.24	
Toluene*	<0.050	0.050	01/20/2021	ND	2.11	106	2.00	3.03	
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.08	104	2.00	3.49	
Total Xylenes*	<0.150	0.150	01/20/2021	ND	6.38	106	6.00	3.09	
Total BTX	<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	3920	16.0	01/21/2021	ND	416	104	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	01/21/2021	ND	233	117	200	1.52	
DRO >C10-C28*	<10.0	10.0	01/21/2021	ND	246	123	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	01/21/2021	ND					

Surrogate: 1-Chlorooctane 91.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 84.5 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/19/2021
 Reported: 01/21/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/19/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 26 (H210127-14)

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	01/20/2021	ND	2.09	105	2.00	2.24	
Toluene*	<0.050	0.050	01/20/2021	ND	2.11	106	2.00	3.03	
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.08	104	2.00	3.49	
Total Xylenes*	<0.150	0.150	01/20/2021	ND	6.38	106	6.00	3.09	
Total BTEx	<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	880	16.0	01/21/2021	ND	416	104	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	01/21/2021	ND	233	117	200	1.52	
DRO >C10-C28*	<10.0	10.0	01/21/2021	ND	246	123	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	01/21/2021	ND					

Surrogate: 1-Chlorooctane 98.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 93.7 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/19/2021
 Reported: 01/21/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/19/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 27 (H210127-15)

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	01/20/2021	ND	2.09	105	2.00	2.24	
Toluene*	<0.050	0.050	01/20/2021	ND	2.11	106	2.00	3.03	
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.08	104	2.00	3.49	
Total Xylenes*	<0.150	0.150	01/20/2021	ND	6.38	106	6.00	3.09	
Total BTEX	<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	3400	16.0	01/21/2021	ND	416	104	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	01/21/2021	ND	233	117	200	1.52	
DRO >C10-C28*	<10.0	10.0	01/21/2021	ND	246	123	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	01/21/2021	ND					

Surrogate: 1-Chlorooctane 92.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.8 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/19/2021	Sampling Date:	01/19/2021
Reported:	01/21/2021	Sampling Type:	Soil
Project Name:	GERONIMO #28	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B 28 (H210127-16)

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	01/20/2021	ND	2.09	105	2.00	2.24	
Toluene*	<0.050	0.050	01/20/2021	ND	2.11	106	2.00	3.03	
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.08	104	2.00	3.49	
Total Xylenes*	<0.150	0.150	01/20/2021	ND	6.38	106	6.00	3.09	
Total BTEX	<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	6560	16.0	01/21/2021	ND	416	104	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	01/21/2021	ND	233	117	200	1.52	
DRO >C10-C28*	<10.0	10.0	01/21/2021	ND	246	123	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	01/21/2021	ND					

Surrogate: 1-Chlorooctane 95.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.9 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/19/2021
 Reported: 01/21/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/19/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 29 (H210127-17)

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	01/20/2021	ND	2.09	105	2.00	2.24	
Toluene*	<0.050	0.050	01/20/2021	ND	2.11	106	2.00	3.03	
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.08	104	2.00	3.49	
Total Xylenes*	<0.150	0.150	01/20/2021	ND	6.38	106	6.00	3.09	
Total BTEx	<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	1420	16.0	01/21/2021	ND	416	104	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	01/21/2021	ND	233	117	200	1.52	
DRO >C10-C28*	<10.0	10.0	01/21/2021	ND	246	123	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	01/21/2021	ND					

Surrogate: 1-Chlorooctane 92.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.1 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/19/2021
 Reported: 01/21/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/19/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 30 (H210127-18)

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	01/20/2021	ND	2.09	105	2.00	2.24	
Toluene*	<0.050	0.050	01/20/2021	ND	2.11	106	2.00	3.03	
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.08	104	2.00	3.49	
Total Xylenes*	<0.150	0.150	01/20/2021	ND	6.38	106	6.00	3.09	
Total BTEx	<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	1880	16.0	01/21/2021	ND	400	100	400	3.92	QM-07	

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	01/21/2021	ND	233	117	200	1.52	
DRO >C10-C28*	<10.0	10.0	01/21/2021	ND	246	123	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	01/21/2021	ND					

Surrogate: 1-Chlorooctane 92.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.1 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/19/2021
 Reported: 01/21/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/19/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 31 (H210127-19)

BTX 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	01/20/2021	ND	2.09	105	2.00	2.24	
Toluene*	<0.050	0.050	01/20/2021	ND	2.11	106	2.00	3.03	
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.08	104	2.00	3.49	
Total Xylenes*	<0.150	0.150	01/20/2021	ND	6.38	106	6.00	3.09	
Total BTX	<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	3480	16.0	01/21/2021	ND	400	100	400	3.92		

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	01/21/2021	ND	233	117	200	1.52	
DRO >C10-C28*	<10.0	10.0	01/21/2021	ND	246	123	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	01/21/2021	ND					

Surrogate: 1-Chlorooctane 100 % 44.3-144

Surrogate: 1-Chlorooctadecane 94.4 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/19/2021
 Reported: 01/21/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/19/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 32 (H210127-20)

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	01/20/2021	ND	2.09	105	2.00	2.24	
Toluene*	<0.050	0.050	01/20/2021	ND	2.11	106	2.00	3.03	
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.08	104	2.00	3.49	
Total Xylenes*	<0.150	0.150	01/20/2021	ND	6.38	106	6.00	3.09	
Total BTEx	<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	6720	16.0	01/21/2021	ND	400	100	400	3.92		

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	01/21/2021	ND	233	117	200	1.52	
DRO >C10-C28*	<10.0	10.0	01/21/2021	ND	246	123	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	01/21/2021	ND					

Surrogate: 1-Chlorooctane 96.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.9 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/19/2021
 Reported: 01/21/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/19/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 33 (H210127-21)

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	01/20/2021	ND	2.09	105	2.00	2.24	
Toluene*	<0.050	0.050	01/20/2021	ND	2.11	106	2.00	3.03	
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.08	104	2.00	3.49	
Total Xylenes*	<0.150	0.150	01/20/2021	ND	6.38	106	6.00	3.09	
Total BTEX	<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	6880	16.0	01/21/2021	ND	400	100	400	3.92	

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	01/21/2021	ND	233	117	200	1.52	
DRO >C10-C28*	<10.0	10.0	01/21/2021	ND	246	123	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	01/21/2021	ND					

Surrogate: 1-Chlorooctane 99.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.0 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/19/2021
 Reported: 01/21/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/19/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 34 (H210127-22)

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	01/20/2021	ND	2.09	105	2.00	2.24	
Toluene*	<0.050	0.050	01/20/2021	ND	2.11	106	2.00	3.03	
Ethylbenzene*	<0.050	0.050	01/20/2021	ND	2.08	104	2.00	3.49	
Total Xylenes*	<0.150	0.150	01/20/2021	ND	6.38	106	6.00	3.09	
Total BTEX	<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	10400	16.0	01/21/2021	ND	400	100	400	3.92		

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	01/21/2021	ND	233	117	200	1.52	
DRO >C10-C28*	<10.0	10.0	01/21/2021	ND	246	123	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	01/21/2021	ND					

Surrogate: 1-Chlorooctane 98.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.9 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/19/2021
 Reported: 01/21/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/19/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 35 (H210127-23)

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	01/21/2021	ND	2.23	111	2.00	3.15		
Toluene*	<0.050	0.050	01/21/2021	ND	2.20	110	2.00	2.54		
Ethylbenzene*	<0.050	0.050	01/21/2021	ND	2.15	107	2.00	2.40		
Total Xylenes*	<0.150	0.150	01/21/2021	ND	6.26	104	6.00	2.35		
Total BTEx	<0.300	0.300	01/21/2021	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	6660	16.0	01/21/2021	ND	400	100	400	3.92		

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	01/21/2021	ND	233	117	200	1.52	
DRO >C10-C28*	<10.0	10.0	01/21/2021	ND	246	123	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	01/21/2021	ND					

Surrogate: 1-Chlorooctane 99.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.1 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/19/2021
 Reported: 01/21/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/19/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 36 (H210127-24)

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	01/21/2021	ND	2.23	111	2.00	3.15		
Toluene*	<0.050	0.050	01/21/2021	ND	2.20	110	2.00	2.54		
Ethylbenzene*	<0.050	0.050	01/21/2021	ND	2.15	107	2.00	2.40		
Total Xylenes*	<0.150	0.150	01/21/2021	ND	6.26	104	6.00	2.35		
Total BTEx	<0.300	0.300	01/21/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	5060	16.0	01/21/2021	ND	400	100	400	3.92	

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	01/21/2021	ND	233	117	200	1.52	
DRO >C10-C28*	<10.0	10.0	01/21/2021	ND	246	123	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	01/21/2021	ND					

Surrogate: 1-Chlorooctane 92.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.0 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/19/2021
 Reported: 01/21/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/19/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 37 (H210127-25)

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	01/21/2021	ND	2.23	111	2.00	3.15		
Toluene*	<0.050	0.050	01/21/2021	ND	2.20	110	2.00	2.54		
Ethylbenzene*	<0.050	0.050	01/21/2021	ND	2.15	107	2.00	2.40		
Total Xylenes*	<0.150	0.150	01/21/2021	ND	6.26	104	6.00	2.35		
Total BTEx	<0.300	0.300	01/21/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	256	16.0	01/21/2021	ND	400	100	400	3.92	

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	01/21/2021	ND	233	117	200	1.52	
DRO >C10-C28*	<10.0	10.0	01/21/2021	ND	246	123	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	01/21/2021	ND					

Surrogate: 1-Chlorooctane 111 % 44.3-144

Surrogate: 1-Chlorooctadecane 109 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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

A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

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> Project Manager: <u>Bruce Baker</u> Address: City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u> Phone #: Fax #: Project #: Project Owner: Project Name: Project Location: <u>Acquiline 38</u> Sample Name: <u>Joe Curcio Jr</u>		BILL TO P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST	
FOR LAB USE ONLY		MATRIX <input checked="" type="checkbox"/> (G)RAB OR (C)OMP <input type="checkbox"/> # CONTAINERS <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER : <input type="checkbox"/> ACID/BASE: <input checked="" type="checkbox"/> ICE / COOL <input type="checkbox"/> OTHER :		PRESERV SAMPLING	
Lab I.D. Sample I.D.		DATE		TIME	
<u>H210127</u> 1 B13 2 B14 3 B15 4 B16 5 B17 6 B18 7 B19 8 B20 9 B21 10 B22		11/19 2:00 2:02 2:04 2:06 2:08 2:10 2:12 2:14 2:16 2:18		1 1 1 1 1 1 1 1 1 1	
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.		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address:		REMARKS:	
Relinquished By: <u>[Signature]</u> Date: <u>1/19/20</u> Received By: <u>[Signature]</u> Relinquished By: <u>[Signature]</u> Date: <u>2:12</u> Received By: <u>[Signature]</u>		Turnaround Time: <u>Standard</u> <input checked="" type="checkbox"/> <u>Rush</u> <input type="checkbox"/> Thermometer ID #113 <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> Cool Intact <input type="checkbox"/> Sample Condition <input type="checkbox"/> Observed Temp. °C <input type="checkbox"/> Corrected Temp. °C <input type="checkbox"/>		Delivered By: (Circle One) <input type="checkbox"/> Observed Temp. °C <u>4.1</u> Sample Condition <input checked="" type="checkbox"/> Checked By: (Initials) <u>4.0</u> Sampler - UPS - Bus - Other: <input type="checkbox"/> Corrected Temp. °C <input type="checkbox"/> Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	

† 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>Apurba</u> Project Manager: <u>Bruce Becker</u> Address: City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u> Phone #: Fax #: Project #: Project Owner: Project Name: Project Location: <u>Deerline 38</u> Sampler Name: <u>Joe Quispe Jr</u> <small>FOR LAB USE ONLY</small>				BILL TO P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST													
Lab I.D.		Sample I.D.		Matrix		Preserv		Sampling		Analysis											
Handwritten	Printed	Handwritten	Printed	Groundwater	Wastewater	Soil	Oil	Sludge	Other	Acid/Base	Ice/Cool	Other	Date	Time	Notes	Analysis	Analysis	Analysis	Analysis	Analysis	Analysis
11	B33	11	B33										1/19	2:40	CI						
12	B34	12	B34											2:42	Ext TPA						
13	B35	13	B35											2:44	BTEx						
14	B36	14	B36											2:46							
15	B27	15	B27											2:48							
16	B28	16	B28											2:50							
17	B29	17	B29											2:52							
18	B30	18	B30											2:54							
19	B31	19	B31											2:56							
20	B32	20	B32											2:58							

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: <u>[Signature]</u> Relinquished By: <u>[Signature]</u> Date: <u>11/19/21</u> Time: <u>4:12</u> Date: <u>11/19/21</u> Time: <u>4:12</u> Received By: <u>[Signature]</u> Received By: <u>[Signature]</u>	Delivered By: (Circle One) Sampler - UPS - Bus - Other: Observed Temp. °C: <u>4.1</u> Corrected Temp. °C: Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Checked By: <u>[Signature]</u> Turnaround Time: <u>Standard</u> <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush Thermometer ID #113 <input type="checkbox"/> Correction Factor None <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> Sample Condition <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C: Corrected Temp. °C:
--	---

REMARKS:

Verbal Result: ☐ Yes ☐ No **Add'l Phone #:**

All Results are emailed. Please provide Email address:



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>Bruce Baker</u> Address: City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u> Phone #: Fax #: Project #: Project Owner: Project Name: Project Location: <u>Bearings 28</u> Sampler Name: <u>Dea Dussan</u> FOR LAB USE ONLY		BILL TO P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST									
Lab I.D. Sample I.D.		(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: (C) COOL OTHER :		MATRIX PRESERV. SAMPLING		DATE TIME 1/19 2:00 3:02 3:04 3:06 3:08				CI EXT PH BTEX			
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: <u>Dea Dussan</u> Date: <u>1/19/21</u> Time: <u>6:13</u> Relinquished By: <u>Dea Dussan</u> Date: <u>1/19/21</u> Time: <u>6:13</u> Received By: <u>Marcia Kelly</u> Date: <u>1/19/21</u> Time: <u>6:13</u>		Delivered By: (Circle One) Sampler - UPS - Bus - Other: Observed Temp. °C <u>4.1</u> Corrected Temp. °C Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Checked By: (Initials) <u>V.C.</u> Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush Thermometer ID #113 Correction Factor None Bacteria (only) <input type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C Corrected Temp. °C		REMARKS: Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> 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



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

January 28, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: GERONIMO #28

Enclosed are the results of analyses for samples received by the laboratory on 01/21/21 8:45.

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

Cardinal Laboratories is 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B 38	H210143-01	Soil	20-Jan-21 09:20	21-Jan-21 08:45
B 39	H210143-02	Soil	20-Jan-21 09:22	21-Jan-21 08:45
B 40	H210143-03	Soil	20-Jan-21 09:24	21-Jan-21 08:45
B 41	H210143-04	Soil	20-Jan-21 09:26	21-Jan-21 08:45
B 42	H210143-05	Soil	20-Jan-21 09:28	21-Jan-21 08:45
B 43	H210143-06	Soil	20-Jan-21 09:30	21-Jan-21 08:45
B 44	H210143-07	Soil	20-Jan-21 09:32	21-Jan-21 08:45
B 45	H210143-08	Soil	20-Jan-21 09:34	21-Jan-21 08:45
B 46	H210143-09	Soil	20-Jan-21 11:20	21-Jan-21 08:45
B 47	H210143-10	Soil	20-Jan-21 11:22	21-Jan-21 08:45
B 48	H210143-11	Soil	20-Jan-21 11:24	21-Jan-21 08:45
B 49	H210143-12	Soil	20-Jan-21 11:26	21-Jan-21 08:45
B 50	H210143-13	Soil	20-Jan-21 11:28	21-Jan-21 08:45
B 51	H210143-14	Soil	20-Jan-21 11:30	21-Jan-21 08:45
B 52	H210143-15	Soil	20-Jan-21 11:32	21-Jan-21 08:45
B 53	H210143-16	Soil	20-Jan-21 11:34	21-Jan-21 08:45
B 54	H210143-17	Soil	20-Jan-21 11:36	21-Jan-21 08:45
B 55	H210143-18	Soil	20-Jan-21 11:38	21-Jan-21 08:45
B 56	H210143-19	Soil	20-Jan-21 11:40	21-Jan-21 08:45
B 57	H210143-20	Soil	20-Jan-21 11:42	21-Jan-21 08:45
B 58	H210143-21	Soil	20-Jan-21 11:44	21-Jan-21 08:45
B 59	H210143-22	Soil	20-Jan-21 11:46	21-Jan-21 08:45
B 60	H210143-23	Soil	20-Jan-21 11:48	21-Jan-21 08:45
B 61	H210143-24	Soil	20-Jan-21 11:50	21-Jan-21 08:45
B 62	H210143-25	Soil	20-Jan-21 14:22	21-Jan-21 08:45
B 63	H210143-26	Soil	20-Jan-21 14:24	21-Jan-21 08:45
B 64	H210143-27	Soil	20-Jan-21 14:26	21-Jan-21 08:45

Cardinal Laboratories

*=Accredited Analyte

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

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, 88240Project: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432Reported:
28-Jan-21 11:52

B 83	H210143-28	Soil	20-Jan-21 14:28	21-Jan-21 08:45
B 84	H210143-29	Soil	20-Jan-21 14:30	21-Jan-21 08:45
B 85	H210143-30	Soil	20-Jan-21 14:32	21-Jan-21 08:45
B 86	H210143-31	Soil	20-Jan-21 14:34	21-Jan-21 08:45

01/28/21 - Sampler revised the sample IDs of -28 to -31. This is the revised report and will replace the one sent 01/25/21.

Cardinal Laboratories

*=Accredited Analyte

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

A handwritten signature in cursive script, reading "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
2350 W. MARLAND BLVD.
HOBBS NM, 88240

Project: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

B 38**H210143-01 (Soil)**

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	720		16.0	mg/kg	4	1012102	AC	22-Jan-21	4500-Cl-B	
----------	-----	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Toluene*	<0.050	0.050	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	1012104	MS	21-Jan-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	97.9 %	73.3-129	1012104	MS	21-Jan-21	8021B	
---------------------------------------	--------	----------	---------	----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	1012105	MS	21-Jan-21	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	1012105	MS	21-Jan-21	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	1012105	MS	21-Jan-21	8015B	

Surrogate: 1-Chlorooctane	83.5 %	44.3-144	1012105	MS	21-Jan-21	8015B	
---------------------------	--------	----------	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane	89.8 %	42.2-156	1012105	MS	21-Jan-21	8015B	
-------------------------------	--------	----------	---------	----	-----------	-------	--

Cardinal Laboratories

*=Accredited Analyte

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

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

B 39**H210143-02 (Soil)**

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	1170		16.0	mg/kg	4	1012102	AC	22-Jan-21	4500-CI-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1012104	MS	21-Jan-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			98.4 %		73.3-129	1012104	MS	21-Jan-21	8021B	
---------------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1012105	MS	21-Jan-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012105	MS	21-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012105	MS	21-Jan-21	8015B	

Surrogate: 1-Chlorooctane			83.7 %		44.3-144	1012105	MS	21-Jan-21	8015B	
---------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			87.9 %		42.2-156	1012105	MS	21-Jan-21	8015B	
-------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

Cardinal Laboratories

*=Accredited Analyte

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

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

B 40**H210143-03 (Soil)**

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	240		16.0	mg/kg	4	1012102	AC	22-Jan-21	4500-Cl-B	
----------	-----	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1012104	MS	21-Jan-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	73.3-129		1012104	MS	21-Jan-21	8021B	
---------------------------------------	--	--	-------	----------	--	---------	----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1012105	MS	21-Jan-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012105	MS	21-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012105	MS	21-Jan-21	8015B	

Surrogate: 1-Chlorooctane			79.4 %	44.3-144		1012105	MS	21-Jan-21	8015B	
---------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			83.1 %	42.2-156		1012105	MS	21-Jan-21	8015B	
-------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Cardinal Laboratories

*=Accredited Analyte

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

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

B 41**H210143-04 (Soil)**

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	256		16.0	mg/kg	4	1012203	AC	22-Jan-21	4500-Cl-B	
----------	-----	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1012104	MS	21-Jan-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			100 %	73.3-129		1012104	MS	21-Jan-21	8021B	
---------------------------------------	--	--	-------	----------	--	---------	----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1012105	MS	21-Jan-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012105	MS	21-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012105	MS	21-Jan-21	8015B	

Surrogate: 1-Chlorooctane			82.8 %	44.3-144		1012105	MS	21-Jan-21	8015B	
---------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			86.7 %	42.2-156		1012105	MS	21-Jan-21	8015B	
-------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Cardinal Laboratories

*=Accredited Analyte

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

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

B 42**H210143-05 (Soil)**

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	1300		16.0	mg/kg	4	1012203	AC	22-Jan-21	4500-CI-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1012104	MS	21-Jan-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.8 %		73.3-129	1012104	MS	21-Jan-21	8021B	
---------------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1012105	MS	21-Jan-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012105	MS	21-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012105	MS	21-Jan-21	8015B	

Surrogate: 1-Chlorooctane			86.5 %		44.3-144	1012105	MS	21-Jan-21	8015B	
---------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			91.6 %		42.2-156	1012105	MS	21-Jan-21	8015B	
-------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

Cardinal Laboratories

*=Accredited Analyte

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

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

B 43**H210143-06 (Soil)**

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	896		16.0	mg/kg	4	1012203	AC	22-Jan-21	4500-Cl-B	
----------	-----	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1012104	MS	21-Jan-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.6 %		73.3-129	1012104	MS	21-Jan-21	8021B	
---------------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1012105	MS	21-Jan-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012105	MS	21-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012105	MS	21-Jan-21	8015B	

Surrogate: 1-Chlorooctane			81.5 %		44.3-144	1012105	MS	21-Jan-21	8015B	
---------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			86.5 %		42.2-156	1012105	MS	21-Jan-21	8015B	
-------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

Cardinal Laboratories

*=Accredited Analyte

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

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

B 44**H210143-07 (Soil)**

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	2280		16.0	mg/kg	4	1012203	AC	22-Jan-21	4500-CI-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1012104	MS	21-Jan-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			100 %	73.3-129		1012104	MS	21-Jan-21	8021B	
---------------------------------------	--	--	-------	----------	--	---------	----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1012105	MS	21-Jan-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012105	MS	21-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012105	MS	21-Jan-21	8015B	

Surrogate: 1-Chlorooctane			89.8 %	44.3-144		1012105	MS	21-Jan-21	8015B	
---------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			93.2 %	42.2-156		1012105	MS	21-Jan-21	8015B	
-------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Cardinal Laboratories

*=Accredited Analyte

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

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

B 45**H210143-08 (Soil)**

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	4560		16.0	mg/kg	4	1012203	AC	22-Jan-21	4500-CI-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1012104	MS	21-Jan-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	73.3-129		1012104	MS	21-Jan-21	8021B	
---------------------------------------	--	--	-------	----------	--	---------	----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1012105	MS	21-Jan-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012105	MS	21-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012105	MS	21-Jan-21	8015B	

Surrogate: 1-Chlorooctane			86.9 %	44.3-144		1012105	MS	21-Jan-21	8015B	
---------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			91.3 %	42.2-156		1012105	MS	21-Jan-21	8015B	
-------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Cardinal Laboratories

*=Accredited Analyte

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

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

B 46**H210143-09 (Soil)**

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	5120		16.0	mg/kg	4	1012203	AC	22-Jan-21	4500-Cl-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1012111	MS	21-Jan-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1012111	MS	21-Jan-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012111	MS	21-Jan-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1012111	MS	21-Jan-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1012111	MS	21-Jan-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			100 %	73.3-129		1012111	MS	21-Jan-21	8021B	
---------------------------------------	--	--	-------	----------	--	---------	----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	

Surrogate: 1-Chlorooctane			88.6 %	44.3-144		1012108	MS	21-Jan-21	8015B	
---------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			96.1 %	42.2-156		1012108	MS	21-Jan-21	8015B	
-------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Cardinal Laboratories

*=Accredited Analyte

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

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

B 47**H210143-10 (Soil)**

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	3680		16.0	mg/kg	4	1012203	AC	22-Jan-21	4500-Cl-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1012111	MS	21-Jan-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1012111	MS	21-Jan-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012111	MS	21-Jan-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1012111	MS	21-Jan-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1012111	MS	21-Jan-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 73.3-129 1012111 MS 21-Jan-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	

Surrogate: 1-Chlorooctane 92.6 % 44.3-144 1012108 MS 21-Jan-21 8015B

Surrogate: 1-Chlorooctadecane 97.4 % 42.2-156 1012108 MS 21-Jan-21 8015B

Cardinal Laboratories

*=Accredited Analyte

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

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

B 48**H210143-11 (Soil)**

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	2000		16.0	mg/kg	4	1012203	AC	22-Jan-21	4500-Cl-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1012111	MS	21-Jan-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1012111	MS	21-Jan-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012111	MS	21-Jan-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1012111	MS	21-Jan-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1012111	MS	21-Jan-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	73.3-129		1012111	MS	21-Jan-21	8021B	
---------------------------------------	--	--	-------	----------	--	---------	----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	

Surrogate: 1-Chlorooctane			81.4 %	44.3-144		1012108	MS	21-Jan-21	8015B	
---------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			82.9 %	42.2-156		1012108	MS	21-Jan-21	8015B	
-------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Cardinal Laboratories

*=Accredited Analyte

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

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

B 49**H210143-12 (Soil)**

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	6260		16.0	mg/kg	4	1012203	AC	22-Jan-21	4500-Cl-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1012111	MS	21-Jan-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1012111	MS	21-Jan-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012111	MS	21-Jan-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1012111	MS	21-Jan-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1012111	MS	21-Jan-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.2 %		73.3-129	1012111	MS	21-Jan-21	8021B	
---------------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	

Surrogate: 1-Chlorooctane			93.9 %		44.3-144	1012108	MS	21-Jan-21	8015B	
---------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			98.8 %		42.2-156	1012108	MS	21-Jan-21	8015B	
-------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

Cardinal Laboratories

*=Accredited Analyte

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

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

B 50**H210143-13 (Soil)**

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	9860		16.0	mg/kg	4	1012203	AC	22-Jan-21	4500-Cl-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1012111	MS	21-Jan-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1012111	MS	21-Jan-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012111	MS	21-Jan-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1012111	MS	21-Jan-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1012111	MS	21-Jan-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			100 %		73.3-129	1012111	MS	21-Jan-21	8021B	
---------------------------------------	--	--	-------	--	----------	---------	----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	

Surrogate: 1-Chlorooctane			93.2 %		44.3-144	1012108	MS	21-Jan-21	8015B	
---------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			98.6 %		42.2-156	1012108	MS	21-Jan-21	8015B	
-------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

Cardinal Laboratories

*=Accredited Analyte

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

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

B 51**H210143-14 (Soil)**

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	7060		16.0	mg/kg	4	1012203	AC	22-Jan-21	4500-Cl-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1012111	MS	21-Jan-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1012111	MS	21-Jan-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012111	MS	21-Jan-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1012111	MS	21-Jan-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1012111	MS	21-Jan-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.4 %		73.3-129	1012111	MS	21-Jan-21	8021B	
---------------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	

Surrogate: 1-Chlorooctane			95.3 %		44.3-144	1012108	MS	21-Jan-21	8015B	
---------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			99.5 %		42.2-156	1012108	MS	21-Jan-21	8015B	
-------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

Cardinal Laboratories

*=Accredited Analyte

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

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

B 52**H210143-15 (Soil)**

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	8400		16.0	mg/kg	4	1012203	AC	22-Jan-21	4500-CI-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1012111	MS	21-Jan-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1012111	MS	21-Jan-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012111	MS	21-Jan-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1012111	MS	21-Jan-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1012111	MS	21-Jan-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.3 %		73.3-129	1012111	MS	21-Jan-21	8021B	
---------------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	

Surrogate: 1-Chlorooctane			88.2 %		44.3-144	1012108	MS	21-Jan-21	8015B	
---------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			98.1 %		42.2-156	1012108	MS	21-Jan-21	8015B	
-------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

Cardinal Laboratories

*=Accredited Analyte

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

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

B 53**H210143-16 (Soil)**

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	4400		16.0	mg/kg	4	1012203	AC	22-Jan-21	4500-CI-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1012111	MS	22-Jan-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	73.3-129		1012111	MS	22-Jan-21	8021B	
---------------------------------------	--	--	-------	----------	--	---------	----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	

Surrogate: 1-Chlorooctane			89.5 %	44.3-144		1012108	MS	21-Jan-21	8015B	
---------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			95.0 %	42.2-156		1012108	MS	21-Jan-21	8015B	
-------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Cardinal Laboratories

*=Accredited Analyte

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

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

B 54**H210143-17 (Soil)**

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	12800		16.0	mg/kg	4	1012203	AC	22-Jan-21	4500-CI-B	
----------	-------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1012111	MS	22-Jan-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 73.3-129 1012111 MS 22-Jan-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	

Surrogate: 1-Chlorooctane 86.7 % 44.3-144 1012108 MS 21-Jan-21 8015B

Surrogate: 1-Chlorooctadecane 101 % 42.2-156 1012108 MS 21-Jan-21 8015B

Cardinal Laboratories

*=Accredited Analyte

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

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

B 55**H210143-18 (Soil)**

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	5730		16.0	mg/kg	4	1012203	AC	22-Jan-21	4500-Cl-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1012111	MS	22-Jan-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	73.3-129		1012111	MS	22-Jan-21	8021B	
---------------------------------------	--	--	-------	----------	--	---------	----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	

Surrogate: 1-Chlorooctane			84.2 %	44.3-144		1012108	MS	21-Jan-21	8015B	
---------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			92.3 %	42.2-156		1012108	MS	21-Jan-21	8015B	
-------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Cardinal Laboratories

*=Accredited Analyte

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

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

B 56**H210143-19 (Soil)**

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	7460		16.0	mg/kg	4	1012203	AC	22-Jan-21	4500-CI-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1012111	MS	22-Jan-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			100 %		73.3-129	1012111	MS	22-Jan-21	8021B	
---------------------------------------	--	--	-------	--	----------	---------	----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	

Surrogate: 1-Chlorooctane			87.2 %		44.3-144	1012108	MS	21-Jan-21	8015B	
---------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			93.6 %		42.2-156	1012108	MS	21-Jan-21	8015B	
-------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

Cardinal Laboratories

*=Accredited Analyte

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

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

B 57**H210143-20 (Soil)**

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	9730		16.0	mg/kg	4	1012203	AC	22-Jan-21	4500-Cl-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1012111	MS	22-Jan-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			101 %	73.3-129		1012111	MS	22-Jan-21	8021B	
---------------------------------------	--	--	-------	----------	--	---------	----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	

Surrogate: 1-Chlorooctane			92.2 %	44.3-144		1012108	MS	21-Jan-21	8015B	
---------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			100 %	42.2-156		1012108	MS	21-Jan-21	8015B	
-------------------------------	--	--	-------	----------	--	---------	----	-----------	-------	--

Cardinal Laboratories

*=Accredited Analyte

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

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

B 58**H210143-21 (Soil)**

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	7730		16.0	mg/kg	4	1012203	AC	22-Jan-21	4500-CI-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1012111	MS	22-Jan-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			100 %		73.3-129	1012111	MS	22-Jan-21	8021B	
---------------------------------------	--	--	-------	--	----------	---------	----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	

Surrogate: 1-Chlorooctane			86.4 %		44.3-144	1012108	MS	21-Jan-21	8015B	
---------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			95.2 %		42.2-156	1012108	MS	21-Jan-21	8015B	
-------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

Cardinal Laboratories

*=Accredited Analyte

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

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

B 59**H210143-22 (Soil)**

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	5460		16.0	mg/kg	4	1012203	AC	22-Jan-21	4500-CI-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1012111	MS	22-Jan-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 73.3-129 1012111 MS 22-Jan-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	

Surrogate: 1-Chlorooctane 91.2 % 44.3-144 1012108 MS 21-Jan-21 8015B

Surrogate: 1-Chlorooctadecane 98.2 % 42.2-156 1012108 MS 21-Jan-21 8015B

Cardinal Laboratories

*=Accredited Analyte

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

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

B 60**H210143-23 (Soil)**

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	5060		16.0	mg/kg	4	1012203	AC	22-Jan-21	4500-Cl-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1012111	MS	22-Jan-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129 1012111 MS 22-Jan-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	

Surrogate: 1-Chlorooctane 88.6 % 44.3-144 1012108 MS 21-Jan-21 8015B

Surrogate: 1-Chlorooctadecane 95.4 % 42.2-156 1012108 MS 21-Jan-21 8015B

Cardinal Laboratories

*=Accredited Analyte

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

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

B 61**H210143-24 (Soil)**

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	4400		16.0	mg/kg	4	1012110	AC	22-Jan-21	4500-Cl-B	QM-07
----------	------	--	------	-------	---	---------	----	-----------	-----------	-------

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1012111	MS	22-Jan-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 73.3-129 1012111 MS 22-Jan-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	

Surrogate: 1-Chlorooctane 83.0 % 44.3-144 1012108 MS 21-Jan-21 8015B

Surrogate: 1-Chlorooctadecane 93.6 % 42.2-156 1012108 MS 21-Jan-21 8015B

Cardinal Laboratories

*=Accredited Analyte

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

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

B 62**H210143-25 (Soil)**

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	7520		16.0	mg/kg	4	1012110	AC	22-Jan-21	4500-CI-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1012111	MS	22-Jan-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	73.3-129		1012111	MS	22-Jan-21	8021B	
---------------------------------------	--	--	-------	----------	--	---------	----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1012108	MS	22-Jan-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012108	MS	22-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012108	MS	22-Jan-21	8015B	

Surrogate: 1-Chlorooctane			91.0 %	44.3-144		1012108	MS	22-Jan-21	8015B	
---------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			98.9 %	42.2-156		1012108	MS	22-Jan-21	8015B	
-------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Cardinal Laboratories

*=Accredited Analyte

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

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

B 63**H210143-26 (Soil)**

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	7330		16.0	mg/kg	4	1012110	AC	22-Jan-21	4500-CI-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1012111	MS	22-Jan-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.6 %		73.3-129	1012111	MS	22-Jan-21	8021B	
---------------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1012108	MS	22-Jan-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012108	MS	22-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012108	MS	22-Jan-21	8015B	

Surrogate: 1-Chlorooctane			90.7 %		44.3-144	1012108	MS	22-Jan-21	8015B	
---------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			99.9 %		42.2-156	1012108	MS	22-Jan-21	8015B	
-------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

Cardinal Laboratories

*=Accredited Analyte

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

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

B 64**H210143-27 (Soil)**

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	8660		16.0	mg/kg	4	1012110	AC	22-Jan-21	4500-CI-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1012111	MS	22-Jan-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			99.6 %		73.3-129	1012111	MS	22-Jan-21	8021B	
---------------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1012108	MS	22-Jan-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012108	MS	22-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012108	MS	22-Jan-21	8015B	

Surrogate: 1-Chlorooctane			87.1 %		44.3-144	1012108	MS	22-Jan-21	8015B	
---------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			95.1 %		42.2-156	1012108	MS	22-Jan-21	8015B	
-------------------------------	--	--	--------	--	----------	---------	----	-----------	-------	--

Cardinal Laboratories

*=Accredited Analyte

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

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

B 83**H210143-28 (Soil)**

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	6400		16.0	mg/kg	4	1012110	AC	22-Jan-21	4500-CI-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1012111	MS	22-Jan-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129 1012111 MS 22-Jan-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1012108	MS	22-Jan-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012108	MS	22-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012108	MS	22-Jan-21	8015B	

Surrogate: 1-Chlorooctane 80.5 % 44.3-144 1012108 MS 22-Jan-21 8015B

Surrogate: 1-Chlorooctadecane 86.8 % 42.2-156 1012108 MS 22-Jan-21 8015B

Cardinal Laboratories

*=Accredited Analyte

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

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

B 84**H210143-29 (Soil)**

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	8400		16.0	mg/kg	4	1012110	AC	22-Jan-21	4500-CI-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1012206	MS	22-Jan-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1012206	MS	22-Jan-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012206	MS	22-Jan-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1012206	MS	22-Jan-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1012206	MS	22-Jan-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129 1012206 MS 22-Jan-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1012202	MS	22-Jan-21	8015B	
DRO >C10-C28*	124		10.0	mg/kg	1	1012202	MS	22-Jan-21	8015B	
EXT DRO >C28-C36	59.2		10.0	mg/kg	1	1012202	MS	22-Jan-21	8015B	

Surrogate: 1-Chlorooctane 87.4 % 44.3-144 1012202 MS 22-Jan-21 8015B

Surrogate: 1-Chlorooctadecane 96.3 % 42.2-156 1012202 MS 22-Jan-21 8015B

Cardinal Laboratories

*=Accredited Analyte

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

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

B 85**H210143-30 (Soil)**

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	4080		16.0	mg/kg	4	1012110	AC	22-Jan-21	4500-Cl-B	
-----------------	-------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1012206	MS	22-Jan-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1012206	MS	22-Jan-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012206	MS	22-Jan-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1012206	MS	22-Jan-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1012206	MS	22-Jan-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 73.3-129 1012206 MS 22-Jan-21 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1012202	MS	22-Jan-21	8015B	
DRO >C10-C28*	20.1		10.0	mg/kg	1	1012202	MS	22-Jan-21	8015B	
EXT DRO >C28-C36	10.3		10.0	mg/kg	1	1012202	MS	22-Jan-21	8015B	

Surrogate: 1-Chlorooctane 78.7 % 44.3-144 1012202 MS 22-Jan-21 8015B

Surrogate: 1-Chlorooctadecane 83.6 % 42.2-156 1012202 MS 22-Jan-21 8015B

Cardinal Laboratories

*=Accredited Analyte

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

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

B 86**H210143-31 (Soil)**

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	6640		16.0	mg/kg	4	1012110	AC	22-Jan-21	4500-Cl-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	1012206	MS	22-Jan-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1012206	MS	22-Jan-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012206	MS	22-Jan-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1012206	MS	22-Jan-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1012206	MS	22-Jan-21	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	73.3-129		1012206	MS	22-Jan-21	8021B	
---------------------------------------	--	--	-------	----------	--	---------	----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	1012202	MS	22-Jan-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012202	MS	22-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012202	MS	22-Jan-21	8015B	

Surrogate: 1-Chlorooctane			83.1 %	44.3-144		1012202	MS	22-Jan-21	8015B	
---------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Surrogate: 1-Chlorooctadecane			86.3 %	42.2-156		1012202	MS	22-Jan-21	8015B	
-------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Cardinal Laboratories

*=Accredited Analyte

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

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1012102 - 1:4 DI Water**Blank (1012102-BLK1)**

Prepared & Analyzed: 21-Jan-21

Chloride	ND	16.0	mg/kg
----------	----	------	-------

LCS (1012102-BS1)

Prepared & Analyzed: 21-Jan-21

Chloride	384	16.0	mg/kg	400	96.0	80-120
----------	-----	------	-------	-----	------	--------

LCS Dup (1012102-BSD1)

Prepared & Analyzed: 21-Jan-21

Chloride	400	16.0	mg/kg	400	100	80-120	4.08	20
----------	-----	------	-------	-----	-----	--------	------	----

Batch 1012110 - 1:4 DI Water**Blank (1012110-BLK1)**

Prepared & Analyzed: 21-Jan-21

Chloride	ND	16.0	mg/kg
----------	----	------	-------

LCS (1012110-BS1)

Prepared & Analyzed: 21-Jan-21

Chloride	416	16.0	mg/kg	400	104	80-120
----------	-----	------	-------	-----	-----	--------

LCS Dup (1012110-BSD1)

Prepared & Analyzed: 21-Jan-21

Chloride	416	16.0	mg/kg	400	104	80-120	0.00	20
----------	-----	------	-------	-----	-----	--------	------	----

Batch 1012203 - 1:4 DI Water**Blank (1012203-BLK1)**

Prepared & Analyzed: 22-Jan-21

Chloride	ND	16.0	mg/kg
----------	----	------	-------

LCS (1012203-BS1)

Prepared & Analyzed: 22-Jan-21

Chloride	400	16.0	mg/kg	400	100	80-120
----------	-----	------	-------	-----	-----	--------

Cardinal Laboratories

*=Accredited Analyte

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

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 1012203 - 1:4 DI Water**LCS Dup (1012203-BSD1)**

Prepared & Analyzed: 22-Jan-21

Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	
----------	-----	------	-------	-----	--	-----	--------	------	----	--

Cardinal Laboratories

*=Accredited Analyte

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

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1012104 - Volatiles**Blank (1012104-BLK1)**

Prepared & Analyzed: 21-Jan-21

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)	ND		mg/kg	0.0500		99.8	73.3-129			

LCS (1012104-BS1)

Prepared & Analyzed: 21-Jan-21

Benzene	2.07	0.050	mg/kg	2.00		103	72.2-131			
Toluene	2.04	0.050	mg/kg	2.00		102	71.7-126			
Ethylbenzene	2.00	0.050	mg/kg	2.00		99.8	68.9-126			
Total Xylenes	5.88	0.150	mg/kg	6.00		97.9	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0489		mg/kg	0.0500		97.8	73.3-129			

LCS Dup (1012104-BSD1)

Prepared & Analyzed: 21-Jan-21

Benzene	2.05	0.050	mg/kg	2.00		102	72.2-131	1.11	14.6	
Toluene	2.01	0.050	mg/kg	2.00		100	71.7-126	1.68	17.4	
Ethylbenzene	1.97	0.050	mg/kg	2.00		98.3	68.9-126	1.57	18.9	
Total Xylenes	5.77	0.150	mg/kg	6.00		96.2	71.4-125	1.80	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0486		mg/kg	0.0500		97.1	73.3-129			

Batch 1012111 - Volatiles**Blank (1012111-BLK1)**

Prepared & Analyzed: 21-Jan-21

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)	ND		mg/kg	0.0500		99.6	73.3-129			

Cardinal Laboratories

*=Accredited Analyte

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

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1012111 - Volatiles**LCS (1012111-BS1)**

Prepared & Analyzed: 21-Jan-21

Benzene	2.07	0.050	mg/kg	2.00		104	72.2-131			
Toluene	2.03	0.050	mg/kg	2.00		102	71.7-126			
Ethylbenzene	2.00	0.050	mg/kg	2.00		100	68.9-126			
Total Xylenes	5.88	0.150	mg/kg	6.00		98.1	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0493		mg/kg	0.0500		98.6	73.3-129			

LCS Dup (1012111-BS1)

Prepared & Analyzed: 21-Jan-21

Benzene	2.13	0.050	mg/kg	2.00		106	72.2-131	2.50	14.6	
Toluene	2.08	0.050	mg/kg	2.00		104	71.7-126	2.40	17.4	
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	68.9-126	1.98	18.9	
Total Xylenes	6.00	0.150	mg/kg	6.00		100	71.4-125	1.91	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0494		mg/kg	0.0500		98.8	73.3-129			

Batch 1012206 - Volatiles**Blank (1012206-BLK1)**

Prepared & Analyzed: 22-Jan-21

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)	ND		mg/kg	0.0500		99.7	73.3-129			

LCS (1012206-BS1)

Prepared & Analyzed: 22-Jan-21

Benzene	2.15	0.050	mg/kg	2.00		108	72.2-131			
Toluene	2.09	0.050	mg/kg	2.00		104	71.7-126			
Ethylbenzene	2.07	0.050	mg/kg	2.00		103	68.9-126			
Total Xylenes	6.05	0.150	mg/kg	6.00		101	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0491		mg/kg	0.0500		98.2	73.3-129			

Cardinal Laboratories

*=Accredited Analyte

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

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

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
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 1012206 - Volatiles**LCS Dup (1012206-BSD1)**

Prepared & Analyzed: 22-Jan-21

Benzene	2.17	0.050	mg/kg	2.00		109	72.2-131	1.01	14.6	
Toluene	2.10	0.050	mg/kg	2.00		105	71.7-126	0.521	17.4	
Ethylbenzene	2.07	0.050	mg/kg	2.00		103	68.9-126	0.112	18.9	
Total Xylenes	6.04	0.150	mg/kg	6.00		101	71.4-125	0.160	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0493		mg/kg	0.0500		98.5	73.3-129			

Cardinal Laboratories

*=Accredited Analyte

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

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

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
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 1012105 - General Prep - Organics**Blank (1012105-BLK1)**

Prepared & Analyzed: 21-Jan-21

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	35.6		mg/kg	50.0		71.2	44.3-144			
Surrogate: 1-Chlorooctadecane	37.5		mg/kg	50.0		75.0	42.2-156			

LCS (1012105-BS1)

Prepared & Analyzed: 21-Jan-21

GRO C6-C10	215	10.0	mg/kg	200		108	83.7-135			
DRO >C10-C28	217	10.0	mg/kg	200		108	80.4-133			
Total TPH C6-C28	432	10.0	mg/kg	400		108	83.1-133			
Surrogate: 1-Chlorooctane	45.8		mg/kg	50.0		91.6	44.3-144			
Surrogate: 1-Chlorooctadecane	49.3		mg/kg	50.0		98.7	42.2-156			

LCS Dup (1012105-BS1)

Prepared & Analyzed: 21-Jan-21

GRO C6-C10	221	10.0	mg/kg	200		111	83.7-135	2.79	13.8	
DRO >C10-C28	216	10.0	mg/kg	200		108	80.4-133	0.463	22.1	
Total TPH C6-C28	437	10.0	mg/kg	400		109	83.1-133	1.17	17.7	
Surrogate: 1-Chlorooctane	46.7		mg/kg	50.0		93.5	44.3-144			
Surrogate: 1-Chlorooctadecane	49.7		mg/kg	50.0		99.4	42.2-156			

Batch 1012108 - General Prep - Organics**Blank (1012108-BLK1)**

Prepared & Analyzed: 21-Jan-21

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	45.6		mg/kg	50.0		91.1	44.3-144			
Surrogate: 1-Chlorooctadecane	47.0		mg/kg	50.0		94.0	42.2-156			

Cardinal Laboratories

*=Accredited Analyte

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

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

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
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 1012108 - General Prep - Organics**LCS (1012108-BS1)**

Prepared & Analyzed: 21-Jan-21

GRO C6-C10	211	10.0	mg/kg	200		105	83.7-135			
DRO >C10-C28	234	10.0	mg/kg	200		117	80.4-133			
Total TPH C6-C28	445	10.0	mg/kg	400		111	83.1-133			
Surrogate: 1-Chlorooctane	49.4		mg/kg	50.0		98.8	44.3-144			
Surrogate: 1-Chlorooctadecane	49.3		mg/kg	50.0		98.5	42.2-156			

LCS Dup (1012108-BS1)

Prepared & Analyzed: 21-Jan-21

GRO C6-C10	219	10.0	mg/kg	200		109	83.7-135	3.74	13.8	
DRO >C10-C28	241	10.0	mg/kg	200		120	80.4-133	2.78	22.1	
Total TPH C6-C28	459	10.0	mg/kg	400		115	83.1-133	3.23	17.7	
Surrogate: 1-Chlorooctane	49.3		mg/kg	50.0		98.5	44.3-144			
Surrogate: 1-Chlorooctadecane	51.5		mg/kg	50.0		103	42.2-156			

Batch 1012202 - General Prep - Organics**Blank (1012202-BLK1)**

Prepared & Analyzed: 22-Jan-21

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	40.4		mg/kg	50.0		80.8	44.3-144			
Surrogate: 1-Chlorooctadecane	42.1		mg/kg	50.0		84.2	42.2-156			

LCS (1012202-BS1)

Prepared & Analyzed: 22-Jan-21

GRO C6-C10	188	10.0	mg/kg	200		94.1	83.7-135			
DRO >C10-C28	189	10.0	mg/kg	200		94.6	80.4-133			
Total TPH C6-C28	377	10.0	mg/kg	400		94.3	83.1-133			
Surrogate: 1-Chlorooctane	40.4		mg/kg	50.0		80.7	44.3-144			
Surrogate: 1-Chlorooctadecane	42.6		mg/kg	50.0		85.2	42.2-156			

Cardinal Laboratories

*=Accredited Analyte

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

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: GERONIMO #28
Project Number: NONE GIVEN
Project Manager: BRUCE BAKER
Fax To: (575) 393-2432

Reported:
28-Jan-21 11:52

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
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 1012202 - General Prep - Organics**LCS Dup (1012202-BSD1)**

Prepared & Analyzed: 22-Jan-21

GRO C6-C10	204	10.0	mg/kg	200		102	83.7-135	8.01	13.8	
DRO >C10-C28	200	10.0	mg/kg	200		99.8	80.4-133	5.38	22.1	
Total TPH C6-C28	403	10.0	mg/kg	400		101	83.1-133	6.70	17.7	
Surrogate: 1-Chlorooctane	43.1		mg/kg	50.0		86.1	44.3-144			
Surrogate: 1-Chlorooctadecane	43.6		mg/kg	50.0		87.1	42.2-156			

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

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

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

Cardinal Laboratories

*=Accredited Analyte

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

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

BILL TO						ANALYSIS REQUEST					
Company Name: Pace						P.O. #:					
Project Manager: Rene Baker						Company:					
Address:						Attn:					
City: Hobbs						State: NM Zip: 88240					
Phone #: _____						Fax #: _____					
Project #:						City:					
Project Owner:						State: _____ Zip: _____					
Project Location: Cerrano St						Phone #: _____					
Sample Name: Suspect dr.						Fax #: _____					
FOR LAB USE ONLY											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	CI	EXT TPH	BTEX
A210143	1 B3d	/	1	GROUNDWATER			11:20	9:02	/	/	/
	2 B3y	/	1	WASTEWATER				9:04	/	/	/
	3 B40	/	1	SOIL				9:26	/	/	/
	4 B41	/	1	OIL				9:28	/	/	/
	5 B42	/	1	SLUDGE				9:30	/	/	/
	6 B43	/	1	OTHER :				9:32	/	/	/
	7 B44	/	1	ACID/BASE:				9:34	/	/	/
	8 B45	/	1	ICE / COOL				11:20	/	/	/
	9 B46	/	1	OTHER :				11:22	/	/	/
	10 B47	/	1						/	/	/

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:		Date: 1-21-21	Received By: [Signature]	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Reinquinshed By:		Date: 0845	Received By: [Signature]	All Results are emailed. Please provide Email address:	
		Time: _____			
		Date: _____			
		Time: _____			

Delivered By: (Circle One)		Observed Temp. °C	Sample Condition	CHECKED BY: (Initials)	Turnaround Time:
Sampler - UPS - Bus - Other:	Corrected Temp. °C	1.3	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	TE	Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
			No <input type="checkbox"/> Yes <input type="checkbox"/>		Bacteria (only) Sample Condition
					Cool Intact <input type="checkbox"/> Cool Intact <input type="checkbox"/>
					Observed Temp. °C
					Corrected Temp. °C

REMARKS:
 ID's changed samples #28 -
 * 31 per Joe Quesada Jr.
 Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Corrected Temp. °C



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>Rene Baker</u>		Company:									
Address:		City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>		Attn:							
Phone #:		Fax #:		Address:							
Project #:		Project Owner:		City:		State:		Zip:			
Project Name:		Project Location: <u>Berunino 28</u>		Phone #:							
Sampler Name: <u>Joe Gussler Jr.</u>		Fax #:		PRESERV		SAMPLING					
FOR LAB USE ONLY		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX					
Lab I.D.		Sample I.D.		GROUNDWATER		WASTEWATER		SOIL		OIL	
11 <u>B48</u>		11 <u>B48</u>		1		1		1		1	
12 <u>B49</u>		12 <u>B49</u>		1		1		1		1	
13 <u>B50</u>		13 <u>B50</u>		1		1		1		1	
14 <u>B51</u>		14 <u>B51</u>		1		1		1		1	
15 <u>B52</u>		15 <u>B52</u>		1		1		1		1	
16 <u>B53</u>		16 <u>B53</u>		1		1		1		1	
17 <u>B54</u>		17 <u>B54</u>		1		1		1		1	
18 <u>B55</u>		18 <u>B55</u>		1		1		1		1	
19 <u>B56</u>		19 <u>B56</u>		1		1		1		1	
20 <u>B57</u>		20 <u>B57</u>		1		1		1		1	
DATE		TIME		DATE		TIME		DATE		TIME	
11/20		11:24		11/20		11:24		11/20		11:24	
11/28		11:28		11/28		11:28		11/28		11:28	
11/30		11:30		11/30		11:30		11/30		11:30	
11/32		11:32		11/32		11:32		11/32		11:32	
11/34		11:34		11/34		11:34		11/34		11:34	
11/36		11:36		11/36		11:36		11/36		11:36	
11/38		11:38		11/38		11:38		11/38		11:38	
11/40		11:40		11/40		11:40		11/40		11:40	
11/42		11:42		11/42		11:42		11/42		11:42	
REMARKS:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:							
All Results are emailed. Please provide Email address:											
Relinquished By: <u>Joe Gussler Jr.</u>		Date: <u>11-21-21</u>		Received By: <u>Jamara</u>		Date: <u>11-21-21</u>					
Relinquished By:		Time:		Received By:		Time:					
Delivered By: (Circle One)		Observed Temp. °C <u>1.3</u>		Sample Condition		CHECKED BY: (Initials) <u>TQ</u>					
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		Turnaround Time: <u>Standard</u>					
				Cool <input type="checkbox"/> Intact <input type="checkbox"/>		Thermometer ID #113					
				Cool <input type="checkbox"/> Intact <input type="checkbox"/>		Correction Factor None					
				Cool <input type="checkbox"/> Intact <input type="checkbox"/>		Bacteria (only) Sample Condition					
				Cool <input type="checkbox"/> Intact <input type="checkbox"/>		Observed Temp. °C					
				Cool <input type="checkbox"/> Intact <input type="checkbox"/>		Corrected Temp. °C					

FORM 5000 R-3, 1/06/04/20

† 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>Frederick</u> Project Manager: <u>Bruce Roberts</u> Address: City: <u>Albany</u> State: <u>NY</u> Zip: <u>12210</u> Phone #: Fax #: Project #: Project Owner: Project Name: Project Location: <u>Greening St</u> Sampler Name: <u>Joe Quisenberry</u> FOR LAB USE ONLY										P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:										BILL TO										ANALYSIS REQUEST									
Lab I.D. Sample I.D.										(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: (CE) COOL OTHER:										MATRIX PRESERV. SAMPLING										DATE TIME Ex+TPH BTEX									
<u>H210143</u> <u>B58</u> <u>B59</u> <u>B60</u> <u>B61</u> <u>B62</u> <u>B63</u> <u>B64</u> <u>B65</u> <u>B66</u> <u>B67</u> <u>B68</u> <u>B69</u> <u>B70</u> <u>B71</u> <u>B72</u> <u>B73</u> <u>B74</u> <u>B75</u> <u>B76</u> <u>B77</u> <u>B78</u> <u>B79</u> <u>B80</u> <u>B81</u> <u>B82</u> <u>B83</u> <u>B84</u> <u>B85</u> <u>B86</u> <u>B87</u> <u>B88</u> <u>B89</u> <u>B90</u> <u>B91</u> <u>B92</u> <u>B93</u> <u>B94</u> <u>B95</u> <u>B96</u> <u>B97</u> <u>B98</u> <u>B99</u> <u>B00</u> <u>B01</u> <u>B02</u> <u>B03</u> <u>B04</u> <u>B05</u> <u>B06</u> <u>B07</u> <u>B08</u> <u>B09</u> <u>B10</u> <u>B11</u> <u>B12</u> <u>B13</u> <u>B14</u> <u>B15</u> <u>B16</u> <u>B17</u> <u>B18</u> <u>B19</u> <u>B20</u> <u>B21</u> <u>B22</u> <u>B23</u> <u>B24</u> <u>B25</u> <u>B26</u> <u>B27</u> <u>B28</u> <u>B29</u> <u>B30</u> <u>B31</u> <u>B32</u> <u>B33</u> <u>B34</u> <u>B35</u> <u>B36</u> <u>B37</u> <u>B38</u> <u>B39</u> <u>B40</u> <u>B41</u> <u>B42</u> <u>B43</u> <u>B44</u> <u>B45</u> <u>B46</u> <u>B47</u> <u>B48</u> <u>B49</u> <u>B50</u> <u>B51</u> <u>B52</u> <u>B53</u> <u>B54</u> <u>B55</u> <u>B56</u> <u>B57</u> <u>B58</u> <u>B59</u> <u>B60</u> <u>B61</u> <u>B62</u> <u>B63</u> <u>B64</u> <u>B65</u> <u>B66</u> <u>B67</u> <u>B68</u> <u>B69</u> <u>B70</u> <u>B71</u> <u>B72</u> <u>B73</u> <u>B74</u> <u>B75</u> <u>B76</u> <u>B77</u> <u>B78</u> <u>B79</u> <u>B80</u> <u>B81</u> <u>B82</u> <u>B83</u> <u>B84</u> <u>B85</u> <u>B86</u> <u>B87</u> <u>B88</u> <u>B89</u> <u>B90</u> <u>B91</u> <u>B92</u> <u>B93</u> <u>B94</u> <u>B95</u> <u>B96</u> <u>B97</u> <u>B98</u> <u>B99</u> <u>B00</u> <u>B01</u> <u>B02</u> <u>B03</u> <u>B04</u> <u>B05</u> <u>B06</u> <u>B07</u> <u>B08</u> <u>B09</u> <u>B10</u> <u>B11</u> <u>B12</u> <u>B13</u> <u>B14</u> <u>B15</u> <u>B16</u> <u>B17</u> <u>B18</u> <u>B19</u> <u>B20</u> <u>B21</u> <u>B22</u> <u>B23</u> <u>B24</u> <u>B25</u> <u>B26</u> <u>B27</u> <u>B28</u> <u>B29</u> <u>B30</u> <u>B31</u> <u>B32</u> <u>B33</u> <u>B34</u> <u>B35</u> <u>B36</u> <u>B37</u> <u>B38</u> <u>B39</u> <u>B40</u> <u>B41</u> <u>B42</u> <u>B43</u> <u>B44</u> <u>B45</u> <u>B46</u> <u>B47</u> <u>B48</u> <u>B49</u> <u>B50</u> <u>B51</u> <u>B52</u> <u>B53</u> <u>B54</u> <u>B55</u> <u>B56</u> <u>B57</u> <u>B58</u> <u>B59</u> <u>B60</u> <u>B61</u> <u>B62</u> <u>B63</u> <u>B64</u> <u>B65</u> <u>B66</u> <u>B67</u> <u>B68</u> <u>B69</u> <u>B70</u> <u>B71</u> <u>B72</u> <u>B73</u> <u>B74</u> <u>B75</u> <u>B76</u> <u>B77</u> <u>B78</u> <u>B79</u> <u>B80</u> <u>B81</u> <u>B82</u> <u>B83</u> <u>B84</u> <u>B85</u> <u>B86</u> <u>B87</u> <u>B88</u> <u>B89</u> <u>B90</u> <u>B91</u> <u>B92</u> <u>B93</u> <u>B94</u> <u>B95</u> <u>B96</u> <u>B97</u> <u>B98</u> <u>B99</u> <u>B00</u> <u>B01</u> <u>B02</u> <u>B03</u> <u>B04</u> <u>B05</u> <u>B06</u> <u>B07</u> <u>B08</u> <u>B09</u> <u>B10</u> <u>B11</u> <u>B12</u> <u>B13</u> <u>B14</u> <u>B15</u> <u>B16</u> <u>B17</u> <u>B18</u> <u>B19</u> <u>B20</u> <u>B21</u> <u>B22</u> <u>B23</u> <u>B24</u> <u>B25</u> <u>B26</u> <u>B27</u> <u>B28</u> <u>B29</u> <u>B30</u> <u>B31</u> <u>B32</u> <u>B33</u> <u>B34</u> <u>B35</u> <u>B36</u> <u>B37</u> <u>B38</u> <u>B39</u> <u>B40</u> <u>B41</u> <u>B42</u> <u>B43</u> <u>B44</u> <u>B45</u> <u>B46</u> <u>B47</u> <u>B48</u> <u>B49</u> <u>B50</u> <u>B51</u> <u>B52</u> <u>B53</u> <u>B54</u> <u>B55</u> <u>B56</u> <u>B57</u> <u>B58</u> <u>B59</u> <u>B60</u> <u>B61</u> <u>B62</u> <u>B63</u> <u>B64</u> <u>B65</u> <u>B66</u> <u>B67</u> <u>B68</u> <u>B69</u> <u>B70</u> <u>B71</u> <u>B72</u> <u>B73</u> <u>B74</u> <u>B75</u> <u>B76</u> <u>B77</u> <u>B78</u> <u>B79</u> <u>B80</u> <u>B81</u> <u>B82</u> <u>B83</u> <u>B84</u> <u>B85</u> <u>B86</u> <u>B87</u> <u>B88</u> <u>B89</u> <u>B90</u> <u>B91</u> <u>B92</u> <u>B93</u> <u>B94</u> <u>B95</u> <u>B96</u> <u>B97</u> <u>B98</u> <u>B99</u> <u>B00</u> <u>B01</u> <u>B02</u> <																																							



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Keene</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:		Zip:			
Project Location: <u>Bernie 28</u>		Phone #:					
Sampler Name: <u>John Baker</u>		Fax #:					
FOR LAB USE ONLY		MATRIX		PRESERV.		SAMPLING	
Lab I.D. Sample I.D.		<input checked="" type="checkbox"/> (G)RAB OR <input checked="" type="checkbox"/> (C)OMP		# CONTAINERS			
<u>H210143</u>				<u>1</u>			
<u>* 31 Box 86</u>							
		GROUNDWATER					
		WASTEWATER					
		SOIL		<u>1</u>			
		OIL					
		SLUDGE					
		OTHER :					
		ACID/BASE:		<input checked="" type="checkbox"/> (C)E / <input checked="" type="checkbox"/> COOL			
		OTHER :					
		DATE		TIME			
		<u>1/20</u>		<u>2:34</u>			
		<u>1</u>		<u>CI</u>			
		<u>1</u>		<u>EXT TPH</u>			
		<u>1</u>		<u>BTEX</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:	Date: <u>1-21-21</u>	Received By: <u>John Baker</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date: <u>8/8/25</u>	Received By: <u>John Baker</u>	All Results are emailed. Please provide Email address:	
Time:				
Delivered By: (Circle One)	Observed Temp. °C <u>1.3</u>	Sample Condition	CHECKED BY: (Initials)	Turnaround Time:
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool <input type="checkbox"/> Intact <input type="checkbox"/>		Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>
		Yes <input type="checkbox"/> No <input type="checkbox"/>		Bacteria (only) Sample Condition
		No <input type="checkbox"/> No <input type="checkbox"/>		Cool Intact <input type="checkbox"/>
				Yes <input type="checkbox"/> No <input type="checkbox"/>
				Observed Temp. °C
				Corrected Temp. °C

FORM 000-R-3-1 (06/04/20)

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



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

January 22, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: GERONIMO #28

Enclosed are the results of analyses for samples received by the laboratory on 01/22/21 8:45.

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

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

Received:	01/22/2021	Sampling Date:	01/21/2021
Reported:	01/22/2021	Sampling Type:	Soil
Project Name:	GERONIMO #28	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 3 20' OUT 1' (H210154-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	01/22/2021	ND	416	104	400	0.00	

Sample ID: SP 2 40' OUT 1' (H210154-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	01/22/2021	ND	416	104	400	0.00	

Sample ID: SP 1 40' OUT 1' (H210154-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	01/22/2021	ND	400	100	400	3.92	

Sample ID: SP 1 20' OUT 1' (H210154-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5730	16.0	01/22/2021	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/22/2021
 Reported: 01/22/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 20' OUT 2' (H210154-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4930	16.0	01/22/2021	ND	400	100	400	3.92	

Sample ID: SP 2 20' OUT 1' (H210154-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5600	16.0	01/22/2021	ND	400	100	400	3.92		

Sample ID: SP 2 20' OUT 2' (H210154-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12600	16.0	01/22/2021	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager

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

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

Cardinal Laboratories

*=Accredited Analyte

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

A handwritten signature in black ink, appearing to read "C. D. Keene", is written over a horizontal line.

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> Project Manager: <u>Bruce Baker</u>		BILL TO	
Address: City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u> Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____ Project Name: _____ Project Location: <u>Cerro Prieto #28</u> Sample Name: <u>Soil from well</u>		ANALYSIS REQUEST	
FOR LAB USE ONLY		P.O. #: _____ Company: _____ Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Lab I.D. <u>H910154</u>	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	MATRIX PRESERV SAMPLING
Date: <u>1-22-21</u> Received By: <u>[Signature]</u> Time: <u>8:45</u> Date: _____ Received By: _____ Time: _____		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____	
Relinquished By: _____ Relinquished Date: _____		REMARKS: _____	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____ FORM-006 R 3.0		Observed Temp. °C <u>-2.4</u> Sample Condition Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Corrected Temp. °C _____ Yes <input type="checkbox"/> No <input type="checkbox"/> CHECKED BY: (Initials) <u>Y.E.</u>	
Turnaround Time: _____ Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID # <u>1113 TB</u> Bacteria (only) Sample Condition Correction Factor <u>+0.4°C</u> <u>1-22-21</u> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C _____ Corrected Temp. °C _____		Bacteria (only) Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C _____ Corrected Temp. °C _____	



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

January 28, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: GERONIMO #28

Enclosed are the results of analyses for samples received by the laboratory on 01/26/21 16:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/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
 BRUCE BAKER
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 01/26/2021
 Reported: 01/28/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/26/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W 15 (H210190-01)

BTX 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	01/27/2021	ND	2.02	101	2.00	6.65	
Toluene*	<0.050	0.050	01/27/2021	ND	1.94	97.2	2.00	7.49	
Ethylbenzene*	<0.050	0.050	01/27/2021	ND	1.90	94.8	2.00	8.16	
Total Xylenes*	<0.150	0.150	01/27/2021	ND	5.50	91.7	6.00	8.98	
Total BTX	<0.300	0.300	01/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	272	16.0	01/27/2021	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2021	ND	196	98.0	200	9.43	
DRO >C10-C28*	<10.0	10.0	01/27/2021	ND	212	106	200	5.08	
EXT DRO >C28-C36	<10.0	10.0	01/27/2021	ND					

Surrogate: 1-Chlorooctane 85.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.0 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/26/2021	Sampling Date:	01/26/2021
Reported:	01/28/2021	Sampling Type:	Soil
Project Name:	GERONIMO #28	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: W 16 (H210190-02)

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	01/27/2021	ND	2.02	101	2.00	6.65		
Toluene*	<0.050	0.050	01/27/2021	ND	1.94	97.2	2.00	7.49		
Ethylbenzene*	<0.050	0.050	01/27/2021	ND	1.90	94.8	2.00	8.16		
Total Xylenes*	<0.150	0.150	01/27/2021	ND	5.50	91.7	6.00	8.98		
Total BTEx	<0.300	0.300	01/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	01/27/2021	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2021	ND	196	98.0	200	9.43	
DRO >C10-C28*	<10.0	10.0	01/27/2021	ND	212	106	200	5.08	
EXT DRO >C28-C36	<10.0	10.0	01/27/2021	ND					

Surrogate: 1-Chlorooctane 84.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.1 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/26/2021
 Reported: 01/28/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/26/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W 17 (H210190-03)

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	01/27/2021	ND	2.02	101	2.00	6.65		
Toluene*	<0.050	0.050	01/27/2021	ND	1.94	97.2	2.00	7.49		
Ethylbenzene*	<0.050	0.050	01/27/2021	ND	1.90	94.8	2.00	8.16		
Total Xylenes*	<0.150	0.150	01/27/2021	ND	5.50	91.7	6.00	8.98		
Total BTEx	<0.300	0.300	01/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	01/27/2021	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2021	ND	196	98.0	200	9.43	
DRO >C10-C28*	<10.0	10.0	01/27/2021	ND	212	106	200	5.08	
EXT DRO >C28-C36	<10.0	10.0	01/27/2021	ND					

Surrogate: 1-Chlorooctane 94.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.0 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/26/2021
 Reported: 01/28/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/26/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W 18 (H210190-04)

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	01/27/2021	ND	2.02	101	2.00	6.65		
Toluene*	<0.050	0.050	01/27/2021	ND	1.94	97.2	2.00	7.49		
Ethylbenzene*	<0.050	0.050	01/27/2021	ND	1.90	94.8	2.00	8.16		
Total Xylenes*	<0.150	0.150	01/27/2021	ND	5.50	91.7	6.00	8.98		
Total BTEx	<0.300	0.300	01/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	01/27/2021	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2021	ND	196	98.0	200	9.43	
DRO >C10-C28*	<10.0	10.0	01/27/2021	ND	212	106	200	5.08	
EXT DRO >C28-C36	<10.0	10.0	01/27/2021	ND					

Surrogate: 1-Chlorooctane 93.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.6 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/26/2021	Sampling Date:	01/26/2021
Reported:	01/28/2021	Sampling Type:	Soil
Project Name:	GERONIMO #28	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B 69 (H210190-05)

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	01/27/2021	ND	2.02	101	2.00	6.65	
Toluene*	<0.050	0.050	01/27/2021	ND	1.94	97.2	2.00	7.49	
Ethylbenzene*	<0.050	0.050	01/27/2021	ND	1.90	94.8	2.00	8.16	
Total Xylenes*	<0.150	0.150	01/27/2021	ND	5.50	91.7	6.00	8.98	
Total BTEX	<0.300	0.300	01/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	1790	16.0	01/27/2021	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2021	ND	196	98.0	200	9.43	
DRO >C10-C28*	<10.0	10.0	01/27/2021	ND	212	106	200	5.08	
EXT DRO >C28-C36	<10.0	10.0	01/27/2021	ND					

Surrogate: 1-Chlorooctane 84.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.1 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/26/2021
 Reported: 01/28/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/26/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 70 (H210190-06)

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	01/27/2021	ND	2.02	101	2.00	6.65	
Toluene*	<0.050	0.050	01/27/2021	ND	1.94	97.2	2.00	7.49	
Ethylbenzene*	<0.050	0.050	01/27/2021	ND	1.90	94.8	2.00	8.16	
Total Xylenes*	<0.150	0.150	01/27/2021	ND	5.50	91.7	6.00	8.98	
Total BTEX	<0.300	0.300	01/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	144	16.0	01/27/2021	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2021	ND	196	98.0	200	9.43	
DRO >C10-C28*	<10.0	10.0	01/27/2021	ND	212	106	200	5.08	
EXT DRO >C28-C36	<10.0	10.0	01/27/2021	ND					

Surrogate: 1-Chlorooctane 87.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.8 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/26/2021	Sampling Date:	01/26/2021
Reported:	01/28/2021	Sampling Type:	Soil
Project Name:	GERONIMO #28	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B 71 (H210190-07)

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	01/27/2021	ND	2.02	101	2.00	6.65	
Toluene*	<0.050	0.050	01/27/2021	ND	1.94	97.2	2.00	7.49	
Ethylbenzene*	<0.050	0.050	01/27/2021	ND	1.90	94.8	2.00	8.16	
Total Xylenes*	<0.150	0.150	01/27/2021	ND	5.50	91.7	6.00	8.98	
Total BTEX	<0.300	0.300	01/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	3080	16.0	01/27/2021	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2021	ND	196	98.0	200	9.43	
DRO >C10-C28*	<10.0	10.0	01/27/2021	ND	212	106	200	5.08	
EXT DRO >C28-C36	<10.0	10.0	01/27/2021	ND					

Surrogate: 1-Chlorooctane 89.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.5 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/26/2021
 Reported: 01/28/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/26/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 72 (H210190-08)

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	01/27/2021	ND	2.02	101	2.00	6.65		
Toluene*	<0.050	0.050	01/27/2021	ND	1.94	97.2	2.00	7.49		
Ethylbenzene*	<0.050	0.050	01/27/2021	ND	1.90	94.8	2.00	8.16		
Total Xylenes*	<0.150	0.150	01/27/2021	ND	5.50	91.7	6.00	8.98		
Total BTEx	<0.300	0.300	01/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	01/27/2021	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2021	ND	196	98.0	200	9.43	
DRO >C10-C28*	<10.0	10.0	01/27/2021	ND	212	106	200	5.08	
EXT DRO >C28-C36	<10.0	10.0	01/27/2021	ND					

Surrogate: 1-Chlorooctane 89.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 93.2 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/26/2021
 Reported: 01/28/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/26/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 73 (H210190-09)

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	01/27/2021	ND	2.02	101	2.00	6.65		
Toluene*	<0.050	0.050	01/27/2021	ND	1.94	97.2	2.00	7.49		
Ethylbenzene*	<0.050	0.050	01/27/2021	ND	1.90	94.8	2.00	8.16		
Total Xylenes*	<0.150	0.150	01/27/2021	ND	5.50	91.7	6.00	8.98		
Total BTEx	<0.300	0.300	01/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8640	16.0	01/27/2021	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2021	ND	196	98.0	200	9.43	
DRO >C10-C28*	<10.0	10.0	01/27/2021	ND	212	106	200	5.08	
EXT DRO >C28-C36	<10.0	10.0	01/27/2021	ND					

Surrogate: 1-Chlorooctane 90.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 94.6 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/26/2021
 Reported: 01/28/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/26/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 74 (H210190-10)

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	01/27/2021	ND	2.02	101	2.00	6.65	
Toluene*	<0.050	0.050	01/27/2021	ND	1.94	97.2	2.00	7.49	
Ethylbenzene*	<0.050	0.050	01/27/2021	ND	1.90	94.8	2.00	8.16	
Total Xylenes*	<0.150	0.150	01/27/2021	ND	5.50	91.7	6.00	8.98	
Total BTEX	<0.300	0.300	01/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	3120	16.0	01/27/2021	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2021	ND	196	98.0	200	9.43	
DRO >C10-C28*	<10.0	10.0	01/27/2021	ND	212	106	200	5.08	
EXT DRO >C28-C36	<10.0	10.0	01/27/2021	ND					

Surrogate: 1-Chlorooctane 87.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.1 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/26/2021
 Reported: 01/28/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/26/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 75 (H210190-11)

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	01/27/2021	ND	2.02	101	2.00	6.65		
Toluene*	<0.050	0.050	01/27/2021	ND	1.94	97.2	2.00	7.49		
Ethylbenzene*	<0.050	0.050	01/27/2021	ND	1.90	94.8	2.00	8.16		
Total Xylenes*	<0.150	0.150	01/27/2021	ND	5.50	91.7	6.00	8.98		
Total BTEx	<0.300	0.300	01/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7600	16.0	01/27/2021	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2021	ND	196	98.0	200	9.43	
DRO >C10-C28*	<10.0	10.0	01/27/2021	ND	212	106	200	5.08	
EXT DRO >C28-C36	<10.0	10.0	01/27/2021	ND					

Surrogate: 1-Chlorooctane 86.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 89.9 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/26/2021
 Reported: 01/28/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/26/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 76 (H210190-12)

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	01/27/2021	ND	2.02	101	2.00	6.65	
Toluene*	<0.050	0.050	01/27/2021	ND	1.94	97.2	2.00	7.49	
Ethylbenzene*	<0.050	0.050	01/27/2021	ND	1.90	94.8	2.00	8.16	
Total Xylenes*	<0.150	0.150	01/27/2021	ND	5.50	91.7	6.00	8.98	
Total BTEx	<0.300	0.300	01/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1410	16.0	01/27/2021	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2021	ND	196	98.0	200	9.43	
DRO >C10-C28*	<10.0	10.0	01/27/2021	ND	212	106	200	5.08	
EXT DRO >C28-C36	<10.0	10.0	01/27/2021	ND					

Surrogate: 1-Chlorooctane 78.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 82.6 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/26/2021
 Reported: 01/28/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/26/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 77 (H210190-13)

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	01/27/2021	ND	2.02	101	2.00	6.65	
Toluene*	<0.050	0.050	01/27/2021	ND	1.94	97.2	2.00	7.49	
Ethylbenzene*	<0.050	0.050	01/27/2021	ND	1.90	94.8	2.00	8.16	
Total Xylenes*	<0.150	0.150	01/27/2021	ND	5.50	91.7	6.00	8.98	
Total BTEx	<0.300	0.300	01/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1730	16.0	01/27/2021	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2021	ND	196	98.0	200	9.43	
DRO >C10-C28*	<10.0	10.0	01/27/2021	ND	212	106	200	5.08	
EXT DRO >C28-C36	<10.0	10.0	01/27/2021	ND					

Surrogate: 1-Chlorooctane 82.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 85.7 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/26/2021	Sampling Date:	01/26/2021
Reported:	01/28/2021	Sampling Type:	Soil
Project Name:	GERONIMO #28	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B 78 (H210190-14)

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	01/27/2021	ND	2.02	101	2.00	6.65	
Toluene*	<0.050	0.050	01/27/2021	ND	1.94	97.2	2.00	7.49	
Ethylbenzene*	<0.050	0.050	01/27/2021	ND	1.90	94.8	2.00	8.16	
Total Xylenes*	<0.150	0.150	01/27/2021	ND	5.50	91.7	6.00	8.98	
Total BTEX	<0.300	0.300	01/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 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	1840	16.0	01/27/2021	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2021	ND	196	98.0	200	9.43	
DRO >C10-C28*	<10.0	10.0	01/27/2021	ND	212	106	200	5.08	
EXT DRO >C28-C36	<10.0	10.0	01/27/2021	ND					

Surrogate: 1-Chlorooctane 97.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 101 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/26/2021
 Reported: 01/28/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/26/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 79 (H210190-15)

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	01/27/2021	ND	2.02	101	2.00	6.65		
Toluene*	<0.050	0.050	01/27/2021	ND	1.94	97.2	2.00	7.49		
Ethylbenzene*	<0.050	0.050	01/27/2021	ND	1.90	94.8	2.00	8.16		
Total Xylenes*	<0.150	0.150	01/27/2021	ND	5.50	91.7	6.00	8.98		
Total BTEx	<0.300	0.300	01/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	01/27/2021	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2021	ND	196	98.0	200	9.43	
DRO >C10-C28*	<10.0	10.0	01/27/2021	ND	212	106	200	5.08	
EXT DRO >C28-C36	<10.0	10.0	01/27/2021	ND					

Surrogate: 1-Chlorooctane 97.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/26/2021
 Reported: 01/28/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/26/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 80 (H210190-16)

BTX 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	01/27/2021	ND	2.02	101	2.00	6.65	
Toluene*	<0.050	0.050	01/27/2021	ND	1.94	97.2	2.00	7.49	
Ethylbenzene*	<0.050	0.050	01/27/2021	ND	1.90	94.8	2.00	8.16	
Total Xylenes*	<0.150	0.150	01/27/2021	ND	5.50	91.7	6.00	8.98	
Total BTX	<0.300	0.300	01/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	01/27/2021	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2021	ND	196	98.0	200	9.43	
DRO >C10-C28*	<10.0	10.0	01/27/2021	ND	212	106	200	5.08	
EXT DRO >C28-C36	<10.0	10.0	01/27/2021	ND					

Surrogate: 1-Chlorooctane 85.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 89.1 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/26/2021
 Reported: 01/28/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 01/26/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 81 (H210190-17)

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	01/27/2021	ND	2.02	101	2.00	6.65	
Toluene*	<0.050	0.050	01/27/2021	ND	1.94	97.2	2.00	7.49	
Ethylbenzene*	<0.050	0.050	01/27/2021	ND	1.90	94.8	2.00	8.16	
Total Xylenes*	<0.150	0.150	01/27/2021	ND	5.50	91.7	6.00	8.98	
Total BTEx	<0.300	0.300	01/27/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 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	1440	16.0	01/27/2021	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2021	ND	196	98.0	200	9.43	
DRO >C10-C28*	<10.0	10.0	01/27/2021	ND	212	106	200	5.08	
EXT DRO >C28-C36	<10.0	10.0	01/27/2021	ND					

Surrogate: 1-Chlorooctane 84.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.4 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/26/2021	Sampling Date:	01/26/2021
Reported:	01/28/2021	Sampling Type:	Soil
Project Name:	GERONIMO #28	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B 82 (H210190-18)

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	01/27/2021	ND	2.02	101	2.00	6.65		
Toluene*	<0.050	0.050	01/27/2021	ND	1.94	97.2	2.00	7.49		
Ethylbenzene*	<0.050	0.050	01/27/2021	ND	1.90	94.8	2.00	8.16		
Total Xylenes*	<0.150	0.150	01/27/2021	ND	5.50	91.7	6.00	8.98		
Total BTEx	<0.300	0.300	01/27/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	01/27/2021	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2021	ND	196	98.0	200	9.43	
DRO >C10-C28*	<10.0	10.0	01/27/2021	ND	212	106	200	5.08	
EXT DRO >C28-C36	<10.0	10.0	01/27/2021	ND					

Surrogate: 1-Chlorooctane 94.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.4 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

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

Cardinal Laboratories

*=Accredited Analyte

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

A handwritten signature in black ink, appearing to read "Caley D. Keene", is written over a horizontal line.

Caley 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>Acquia</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>							
Phone #:		Fax #:		Address:							
Project #:		City:		State:		Zip:					
Project Name:		Phone #:		Fax #:							
Project Location: <u>Berardino St</u>											
Sampler Name: <u>Joe Casadevall</u>		FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING			
		(G) RAB OR (C) OMP									
		# CONTAINERS									
		GROUNDWATER									
		WASTEWATER									
		SOIL									
		OIL									
		SLUDGE									
		OTHER :									
		ACID/BASE:									
		ICE / COOL									
		OTHER :									
Lab I.D.		Sample I.D.		DATE		TIME					
#210190		11 875		1/26		1:32		EL			
12 876		1		3:02		3:00		EXT TPH			
13 877		1		3:04		3:12		BTEX			
14 878		1		3:04		3:06					
15 879		1		3:06		3:08					
16 880		1		3:08		3:10					
17 881		1		3:10		3:11					
18 882		1		3:11		3:12					

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: Joe Casadevall Date: 1/26/21 Received By: Lawrence Baker Date: 1/26/21

Relinquished By: Joe Casadevall Date: 1/26/21 Received By: Lawrence Baker Date: 1/26/21

Delivered By: (Circle One) Observed Temp. °C: 5.8 Sample Condition: Intact CHECKED BY: (Initials) AB

Sampler - UPS - Bus - Other: Corrected Temp. °C: 5.8

Turnaround Time: Standard Bacteria (only) Sample Condition: Observed Temp. °C

Thermometer ID #113 Correction Factor: None

REMARKS: All Results are emailed. Please provide Email address:

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

FORM 008 R-3-1 06/04/20

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



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

February 17, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: GERONIMO #28

Enclosed are the results of analyses for samples received by the laboratory on 02/16/21 14:53.

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

Cardinal Laboratories is 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 with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/16/2021	Sampling Date:	02/12/2021
Reported:	02/17/2021	Sampling Type:	Soil
Project Name:	GERONIMO #28	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: W 17 (H210382-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/17/2021	ND	432	108	400	3.77	

Sample ID: W 18 (H210382-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/17/2021	ND	432	108	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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

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

Cardinal Laboratories

*=Accredited Analyte

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

A handwritten signature in black ink, 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

[illegible]



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

December 20, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: GERONIMO #28

Enclosed are the results of analyses for samples received by the laboratory on 12/16/21 16:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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 with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/16/2021	Sampling Date:	12/16/2021
Reported:	12/20/2021	Sampling Type:	Soil
Project Name:	GERONIMO #28	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: B 1 @ 4' (H213646-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2021	ND	2.05	102	2.00	0.354	
Toluene*	<0.050	0.050	12/17/2021	ND	2.00	100	2.00	8.60	
Ethylbenzene*	<0.050	0.050	12/17/2021	ND	2.03	101	2.00	8.35	
Total Xylenes*	<0.150	0.150	12/17/2021	ND	6.71	112	6.00	7.04	
Total BTX	<0.300	0.300	12/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7600	16.0	12/17/2021	ND	400	100	400	3.92		

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	12/17/2021	ND	191	95.5	200	3.20	
DRO >C10-C28*	<10.0	10.0	12/17/2021	ND	189	94.7	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	12/17/2021	ND					

Surrogate: 1-Chlorooctane 67.7 % 62-130

Surrogate: 1-Chlorooctadecane 62.2 % 54.5-135

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/16/2021
 Reported: 12/20/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 12/16/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: B 2 @ 4' (H213646-02)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/17/2021	ND	2.05	102	2.00	0.354		
Toluene*	<0.050	0.050	12/17/2021	ND	2.00	100	2.00	8.60		
Ethylbenzene*	<0.050	0.050	12/17/2021	ND	2.03	101	2.00	8.35		
Total Xylenes*	<0.150	0.150	12/17/2021	ND	6.71	112	6.00	7.04		
Total BTX	<0.300	0.300	12/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8660	16.0	12/17/2021	ND	400	100	400	3.92		

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	12/17/2021	ND	191	95.5	200	3.20	
DRO >C10-C28*	<10.0	10.0	12/17/2021	ND	189	94.7	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	12/17/2021	ND					

Surrogate: 1-Chlorooctane 69.1 % 62-130

Surrogate: 1-Chlorooctadecane 62.7 % 54.5-135

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/16/2021
 Reported: 12/20/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 12/16/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: W 1 BGS 1-4' (H213646-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/17/2021	ND	2.05	102	2.00	0.354		
Toluene*	<0.050	0.050	12/17/2021	ND	2.00	100	2.00	8.60		
Ethylbenzene*	<0.050	0.050	12/17/2021	ND	2.03	101	2.00	8.35		
Total Xylenes*	<0.150	0.150	12/17/2021	ND	6.71	112	6.00	7.04		
Total BTEx	<0.300	0.300	12/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-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	12/17/2021	ND	400	100	400	3.92		

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	12/17/2021	ND	191	95.5	200	3.20	
DRO >C10-C28*	<10.0	10.0	12/17/2021	ND	189	94.7	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	12/17/2021	ND					

Surrogate: 1-Chlorooctane 63.4 % 62-130

Surrogate: 1-Chlorooctadecane 57.5 % 54.5-135

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/16/2021
 Reported: 12/20/2021
 Project Name: GERONIMO #28
 Project Number: NONE GIVEN
 Project Location: NONE GIVEN

Sampling Date: 12/16/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: W 2 BGS 1-4' (H213646-04)

BTX 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	12/17/2021	ND	1.96	97.9	2.00	8.67	
Toluene*	<0.050	0.050	12/17/2021	ND	1.94	97.0	2.00	8.65	
Ethylbenzene*	<0.050	0.050	12/17/2021	ND	1.95	97.5	2.00	9.69	
Total Xylenes*	<0.150	0.150	12/17/2021	ND	5.99	99.9	6.00	9.12	
Total BTX	<0.300	0.300	12/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/17/2021	ND	400	100	400	3.92	

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	12/17/2021	ND	191	95.5	200	3.20	
DRO >C10-C28*	<10.0	10.0	12/17/2021	ND	189	94.7	200	1.07	
EXT DRO >C28-C36	<10.0	10.0	12/17/2021	ND					

Surrogate: 1-Chlorooctane 65.4 % 62-130

Surrogate: 1-Chlorooctadecane 59.4 % 54.5-135

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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

A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

**BILL TO**

ANALYSIS REQUEST

[illegible]

Incident ID	NRM1932357560
District RP	
Facility ID	
Application ID	

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. Staff

Signature: Larry Baker

Date: 11/3/2022

email: larry.baker@apachecorp.com

Telephone: 432-215-2284

OCD Only

Received by: Robert Hamlet

Date: 1/17/2023

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: Robert Hamlet

Date: 1/17/2023

Printed Name: Robert Hamlet

Title: Environmental Specialist - Advanced

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 156077

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 156077
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NRM1932357560 GERONIMO 28 STATE SWD #002, thank you. This closure is approved.	1/17/2023