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

Final Remediation Report

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, depth to ground water being 157', and Table 1 Closure Criteria, The Recommended Remediation Action Levels (RRAL), determined by the latest NMOCD guidelines (19.15.29 NMAC) are as follows: 20,000mg/kg Chloride, 2,500 mg/kg GRO/DRO/MRO, 1,000 mg/kg GRO/DRO, 50 mg/kg BTEX, 10mg/kg Benzene.

Remediation Activities

Between the dates of January 13, 2021 and February 12, 2021, Diamondback excavated approximately 4,840 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 12, 2021 the site was sampled to determine if RRAL's had been met. Fivepoint 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 All wall sections were also below Table 1 requirements. A 20-mil reinforced met. HDPE liner was installed at 4 feet bgs, with sewed seams and properly seated at edges of excavation. On February 2, 2021 backfilling began. 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. 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.

Variance

For wall section 13 (See attached Map), Apache is asking for variance for restoration and reclamation section of rule, as Table 1 requirements are met for this section. Reasons for the variance include: above ground and underground facilities not able to be moved, due to structural integrity of lines, as well as safety issues involved with excavating near active facilities.

Conclusions

Upon review all analytical and data provide by the third-party independent lab, it is our belief that all recommended remediation action levels have been met. Diamondback feels the migration of any remaining contaminants through the vadose zone, has been greatly reduced. Therefore, leaving this site in a manner that will pose very little if any future environmental threat.

Form C-141 Page 3

State of New Mexico **Oil Conservation Division**

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🗹 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🗹 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🗹 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🗹 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗋 Yes 🗹 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes 🗹 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗋 Yes 🗹 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🗹 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🗹 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🗹 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🗹 No
Did the release impact areas not on an exploration, development, production, or storage site?	Yes 🗌 No

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

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

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data

- Data table of soil contaminant concentration data
- Depth to water determination

Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release

- V Boring or excavation logs
- Photographs including date and GIS information

Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

orm C-141	State of New Mexico	0 Incident ID
ge 4	Oil Conservation Divis	
		Facility ID
		Application ID
		a threat to groundwater, surface water, human health or the environment. In ator of responsibility for compliance with any other federal, state, or local laws
Printed Name:B Signature:Bruce email:larry. ba OCD Only	nice BAKer Baher Ker@apachecorp.com	Title: <u>Environmental</u> Tech. S.R. Date: <u>1-14-20</u> Telephone: <u>432-631-6982</u>

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Received by OCD: 6/4/2021 9:34:35 AM Form C-141 State of New Mexico

Oil Conservation Division

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. \checkmark Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. 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. ______ _{Title:} Environmental Tech SR. Printed Name: Larry Baker Signature: Larry Baker email: larry.baker@apachecorp.com _____ Date: 6/4/2021 Telephone: 432-631-6982 **OCD Only** Received by: Date: Approved Approved with Attached Conditions of Approval Denied Deferral Approved Signature: Date:

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SAMPLE ID	SAMPLE DATE	DEPTH (feet bgs)	CHLORIDE mg/Kg	BTEX	TPH
Sec W 1. Wall H210116-01	1-18-21	1-4	352	< 0.300	<10.0
Sec W 2. Wall H210116-02	1-18-21	1-4	304	< 0.300	<10.0
Sec W 3. Wall H210116-03	1-18-21	1-4	48.0	< 0.300	<10.0
Sec W4. Wall H210116-04	1-18-21	1-4	128	< 0.300	<10.0
Sec W 5. Wall H210116-05	1-18-21	1-4	448	< 0.300	<10.0
Sec W6. Wall H210116-06	1-18-21	1-4	80.0	< 0.300	<10.0
Sec W 7. Wall H1210116-07	1-18-21	1-4	160	< 0.300	<10.0
Sec W 8. Wall H210116-08	1-18-21	1-4	320	< 0.300	<10.0
Sec W 9 . Wall 11210116-09	1-18-21	1-4	128	< 0.300	<10.0
Sec W 10. Wall H210116-10	1-18-21	1-4	64.0	<0.300	<10.0
Sec W 11. Wall H1210116-11	1-18-21	1-4	144	< 0.300	<10.0
Sec W 12. Wall 11210116-12	1-18-21	1-4	144	< 0.300	<10.0
Sec W 13. Wall H1210116-13	1-18-21	1-4	1040	< 0.300	<10.0
Sec W 14. Wall 210116-14	1-18-21	1-4	320	< 0.300	<10.0
Sec B 1. Floor H210116-15	1-18-21	4	32.0	< 0.300	<10.0
Sec B 2. Floor H210116-16	1-18-21	4	96.0	< 0.300	<10.0
Sec B 3. Floor H210116-17	1-18-21	4	128	< 0.300	<10.0
Sec B 4. Floor H210116-18	1-1821	4	320	< 0.300	<10.0
Sec B 5. Floor H1210116-19	1-1821	4	112	<0.300	<10.0
Sec B 6. Floor 1H210116-20	1-18-21	4	224	< 0.300	<10.0

SAMPLE ID	SAMPLE	DEPTH	CHLORIDE	BTEX	TPH
	DATE	(feet bgs)	mg/Kg		
Sec B 7. Floor H210116-21	1-18-21	4	672	<0.300	<10.0
Sec B. 8 Floor H210116-22	1-18-21	4	1640	<0.300	<10.0
Sec B. 9 Floor 1H210116-23	1-18-21	4	896	<0.300	<10.0
Sec B. 10 Floor H210116-24	1-18-21	4	960	<0.300	<10.0
Sec B. 11 Floor H210116-25	1-18-21	4	1380	<0.300	<10.0
Sec B. 13 Floor H210127-01	1-19-21	4	320	<0.300	<10.0
Sec B. 14 Floor H210127-02	1-19-21	4	320	<0.300	<10.0
Sec B. 15 Floor H210127-03	1-19-21	4	3560	<0.300	<10.0
Sec B. 16 Floor H210127-04	1-1921	4	944	<0.300	<10.0
Sec B. 17 Floor H210127-05	1-19-21	4	976	<0.300	<10.0
Sec B. 18 Floor H210127-06	1-19-21	4	2960	<0.300	<10.0
Sec B. 19 Floor H210127-07	1-19-21	4	2360	<0.300	<10.0
Sec B. 20 Floor H210127-08	1-19-21	4	5280	<0.300	<10.0
Sec B. 21 Floor H210127-09	1-19-21	4	2000	<0.300	<10.0
Sec B. 22 Floor H210127-10	1-19-21	4	1250	<0.300	<10.0
Sec B. 23 Floor H210127-11	1-19-21	4	4960	<0.300	<10.0
Sec B. 24 Floor H210127-12	1-19-21	4	4960	<0.300	<11.0

SAMPLE ID	SAMPLE DATE	DEPTH (feet bgs)	CHLORIDE mg/Kg	BTEX	TPH
Sec B. 25 Floor H210127-13	1-19-21	4	3920	<0.300	<10.0
Sec B. 26 Floor H210127-14	1-19-21	4	880	<0.300	<10.0
Sec B. 27 Floor H210127-15	1-19-21	4	3400	<0.300	<10.0
Sec B. 28 Floor H210127-16	1-19-21	4	6560	<0.300	<10.0
Sec B. 29 Floor H210127-17	1-19-21	4	1420	< 0.300	<10.0
Sec B. 30 Floor H210127-18	1-19-21	4	6720	<0.300	<.10
Sec B. 31 Floor H210127-19	1-19-21	4	3480	<0.300	<10.0
Sec B. 32 Floor H210127-20	1-19-21	4	6720	<0.300	<10.0
Sec B. 33 Floor H210127-21	1-19-21	4	6880	<0.300	<10.0
Sec B. 34 Floor H210127-22	1-19-21	4	10400	<0.300	<10.0
Sec B. 35 Floor H210127-23	1-19-21	4	6660	<0.300	<10.0
Sec B. 36 Floor H210127-24	1-19-21	4	5060	<0.300	<10.0
Sec B. 37 Floor H210127-25	1-19-21	4	256	< 0.300	<10.0
Sec W.15 Wall H210190-01	1-26-21	1-4	272	<0.300	<10.0
Sec W.16 Wall H210190-02	1-26-21	1-4	208	<0.300	<10.0

SAMPLE ID	SAMPLE DATE	DEPTH (feet bgs)	CHLORIDE mg/Kg	BTEX	TPH
Sec W.17 Wall	1-26-21	1-4	2600	< 0.300	<10.0
H210190-03 Sec W.17 Wall H210382-01	2-12-21	1-4	112	N/A	N/A
Sec W.18 Wall H210190-04	1-26-21	1-4	2600	< 0.300	<10.0
Sec W.18 Wall H210382-02	2-12-21	1-4	48.0	N/A	N/A
Sec B. 69 Floor H210190-05	1-26-21	4	1790	<0.300	<10.0
Sec B.70 Floor H210190-06	1-26-21	4	144	<0.300	<10.0
Sec B.71 Floor H210190-07	1-26-21	4	3080	<0.300	<10.0
Sec B.72 Floor H210190-8	1-26-21	4	1840	<0.300	<10.0
Sec W.73 Wall H210190-09	1-26-21	1-4	8640	<0.300	<10.0
Sec W.74 Wall H210190-10	1-26-21	1-4	3120	<0.300	<10.0
Sec W.75 Wall H210190-11	1-26-21	1-4	7600	<0.300	<10.0
Sec W.76 Wall H210190-12	1-26-21	1-4	1410	<0.300	<10.0
Sec W.77 Wall H210190-13	1-26-21	1-4	1730	<0.300	<10.0
Sec W.78 Wall H210190-14	1-26-21	1-4	1840	<0.300	<10.0
Sec W.79 Wall H210190-15	1-26-21	1-4	4640	<0.300	<10.0

SAMPLE ID	SAMPLE DATE	DEPTH (feet bgs)	CHLORIDE mg/Kg	BTEX	TPH
Sec W.80 Wall H210190-16	1-26-21	1-4	688	<0.300	<10.0
Sec W.81 Wall H210190-17	1-26-21	1-4	1440	<0.300	<10.0
Sec W.82 Wall H210190-18	1-26-21	1-4	1880	< 0.300	<10.0
Sec B. 38 Floor H210143-01	1-28-21	4	720	< 0.300	<10.0
Sec B. 39 Floor H210143-02	1-28-21	4	1170	< 0.300	<10.0
Sec B. 40 Floor H210143-03	1-28-21	4	240	< 0.300	<10.0
Sec B. 41 Floor H210143-04	1-28-21	4	256	< 0.300	<10.0
Sec B. 42 Floor H210143-05	1-28-21	4	1300	<0.300	<10.0
Sec B. 43 Floor H210143-06	1-28-21	4	896	< 0.300	<10.0
Sec B. 44 Floor H210143-07	1-28-21	4	2280	< 0.300	<10.0
Sec B. 45 Floor H210143-08	1-28-21	4	4560	<0.300	<10.0

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SAMPLE ID	SAMPLE DATE	DEPTH (feet bgs)	CHLORIDE mg/Kg	BTEX	TPH
Sec B. 46 Floor H210143-09	1-28-21	4	5120	<0.300	<10.0
Sec B. 47 Floor H4210143-10	1-28-21	4	3680	<0.300	<10.0
Sec B. 48 Floor 11210143-11	1-28-21	4	2000	<0.300	<10.0
Sec B. 49 Floor H210143-12	1-28-21	4	6260	<0.300	<10.0
Sec B. 50 Floor 11210143-13	1-28-21	4	9860	<0.300	<10.0
Sec B. 51 Floor H210143-14	1-28-21	4	7060	<0.300	<10.0
Sec B. 52Floor 11210143-15	1-28-21	4	8400	<0.300	<10.0
Sec B. 53 Floor 11210143-16	1-28-21	4	4400	< 0.300	<10.0
Sec B. 54 Floor 11210143-17	1-28-21	4	12800	< 0.300	<10.0
Sec B. 55 Floor 11210143-18	1-28-21	4	5730	<0.300	<10.0
Sec B. 56 Floor H210143-19	1-28-21	4	7460	<0.300	<10.0
Sec B. 57 Floor H210143-20	1-28-21	4	9730	<0.300	<10.0
Sec B. 58 Floor 11210143-21	1-28-21	4	7730	<0.300	<10.0
Sec B. 59 Floor H210143-22	1-28-21	4	5460	<0.300	<10.0
Sec B. 60 Floor 11210143-23	1-28-21	4	5060	<0.300	<10.0
Sec B. 61 Floor 11210143-24	1-28-21	4	4400	<0.300	<10.0

SAMPLE ID	SAMPLE DATE	DEPTH (feet bgs) 4	CHLORIDE mg/Kg	CHLORIDE mg/Kg	TPH
Sec B. 62 Floor 11210143-26	1-28-21	4	7330	<0.300	<10.0
Sec B. 63 Floor 11210143-27	1-28-21	4	8660	<0.300	<10.0
Sec B. 64 Floor H210143-28	1-28-21	4	8660	<0.300	<10.0
Sec B. 83 Floor H210143-28	1-28-21	4	6400	<0.300	<10.0
Sec B. 84 Floor H210143-29	1-28-21	4	8400	0.300	183.2





Figure 3 - Point of Diversion Map

1/10/2020, 1:52:27 PM OSE District Boundary GIS WATERS PODs

Pending

7

1:18,056 0 0.17 0.35 0.7 mi 0 0.28 0.55 1.1 km

Esn, HERE, Garmin. (c) OpenStreetMap contributors, Esn, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, Source; Esn, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and

> Printed from Public Web Map Unofficial Map from OSE POD Locations Web Application



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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.tceg.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celez D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Analytical Results For:

		BRUCE BA	ARLAND BLVD.		
		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			The second s	

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 (PIL 103 % 73.3-129

mg/kg		Analyzed By: AC		_				
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
352	16.0	01/20/2021	ND	400	100	400	3.92	
mg/kg		Analyzed By: MS		-				
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	01/20/2021	ND	203	102	200	0.487	
<10.0	10.0	01/20/2021	ND	165	82.5	200	4.52	
<10.0	10.0	01/20/2021	ND					
82.9	% 44.3-14	4						
	Result 352 mg, Result <10.0 <10.0 <10.0	Result Reporting Limit 352 16.0 mg/kg mg/kg Result Reporting Limit <10.0	Result Reporting Limit Analyzed 352 16.0 01/20/2021 mg/kg Analyzed Result Reporting Limit Analyzed <10.0	Result Reporting Limit Analyzed Method Blank 352 16.0 01/20/2021 ND mg/kg Analyzed By: MS Result Reporting Limit Analyzed By: MS 10.0 10.0 01/20/2021 ND <10.0	Result Reporting Limit Analyzed Method Blank BS 352 16.0 01/20/2021 ND 400 mg/kg Analyzed By: MS Method Blank BS Result Reporting Limit Analyzed Method Blank BS <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery 352 16.0 01/20/2021 ND 400 100 mg/kg Analyzed By: MS Method Blank BS % Recovery <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 352 16.0 01/20/2021 ND 400 100 400 mg/kg Analyzed By: MS Method Blank BS % Recovery True Value QC <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 352 16.0 01/20/2021 ND 400 100 400 3.92 mg/kg Analyzed BS % Recovery True Value QC RPD Result Reporting Limit Analyzed By: MS Applyzed By: MS

Surrogate: 1-Chlorooctadecane 83.7 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Utability and Diamages. Cardinal's liability and client's exclusive remedy for any daim ansing, whether based in contract or turt, shall be limited to the annount paid by client for analyses. All daims, including those for negligence and any other cause whitebower 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, writing under the applicable service interruptions, has of use, or loss of profits incurryed by client, the subsidiaries, affiliates or successors antising out of or related to the performance of the services hereunder by Cardinal, negatives of whether such daims 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 terms.

Celeg D. Kee

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)

BTEX 8021B	mg/kg		Analyze	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 (PIL 102 % 73,3-129

Chloride, SM4500CI-B Analyte Chloride	mg/kg		Analyzed By: AC		_				
	Result 304	Reporting Limit	Analyzed 01/20/2021	Method Blank ND	BS % Recovery 400 100	True Value QC 400	RPD 3.92	Qualifier	
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	% 44.3-14	4						
Surrogate: 1-Chloroociadecane	50.9	% 42.2-15	6						

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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 3 (H210116-03)

Analyte	mg/kg		Analyze	Analyzed By: ms				-	
	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 (PIL 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	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	74.6	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager




Analytical Results For:

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

Received:	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 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 (PIL 104 % 73.3-129

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte Chloride	Result	Reporting Limit 16.0	Analyzed 01/20/2021	Method Blank ND	BS 400	% Recovery	True Value QC 400	RPD 3.92	Qualifier
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	81.89	42.2-15	6						

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Analytical Results For:

APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432 Received: 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 5 (H210116-05)

BTEX 8021B	mg/kg		Analyze	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 (PIL 103 % 73.3-129

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	01/20/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS	1				
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	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	79.7	% 42.2-15	6						

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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)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIL 102 % 73.3-129

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/20/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS				12	
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	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	83.3	42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

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

Sample ID: W 7 (H210116-07)

BTEX 8021B	mg/kg		Analyze	d By: ms				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIL 103 % 73.3-129

Chloride, SM4500Cl-B	mg/kg		Analyze	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	Analyze	d By: MS				144	
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	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	82.6	% 42 2-15	6						

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Analytical Results For:

APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432 Received: 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 8 (H210116-08)

mg/kg		Analyzed By: ms				_		
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	01/20/2021	ND	2.08	104	2.00	3.33	
<0.050	0.050	01/20/2021	ND	2.10	105	2.00	3.91	
<0.050	0.050	01/20/2021	ND	2.06	103	2.00	4.07	
<0.150	0.150	01/20/2021	ND	6.34	106	6.00	3.40	
<0.300	0.300	01/20/2021	ND					
	Result <0.050 <0.050 <0.050 <0.150	Result Reporting Limit <0.050	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank. <0.050	Result Reporting Limit Analyzed Method Blank BS <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

Surrogate: 4-Bromofluorobenzene (PIL 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	320	16.0	01/20/2021	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.3-14	4					-	

Surrogate: 1-Chlorooctadecane 79.8 % 42.2-156

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Analytical Results For:

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

01/18/2021	Sampling Date:	01/18/2021
01/21/2021	Sampling Type:	Soil
GERONIMO #28	Sampling Condition:	Cool & Intact
NONE GIVEN	Sample Received By:	Jodi Henson
NONE GIVEN	and the second relative care	
	01/21/2021 GERONIMO #28 NONE GIVEN	01/21/2021 Sampling Type: GERONIMO #28 Sampling Condition: NONE GIVEN Sample Received By:

Sample ID: W 9 (H210116-09)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIL 105 % 73.3-129

Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC	_			_	
Analyte Chloride TPH 8015M	Result 128 mg/	Reporting Limit 16.0 /kg	Analyzed 01/20/2021 Analyze	Method Blank ND d By: MS	BS 400	% Recovery	True Value QC 400	RPD 3.92	Qualifier
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	% 44.3-14	4	1.1					
Surrogate: 1-Chlorooctadecane	79.2	% 42.2-15	6						

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Analytical Results For:

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

Received:	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	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	2.0.204 (dates)

Sample ID: W 10 (H210116-10)

BTEX 8021B	mg/kg		Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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					
			or and the	190					

Surrogate: 4-Bromofluorobenzene (PIL 103 % 73.3-129

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/20/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.3-14	4						

Surrogate: 1-Chlorooctadecane 80.4 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



Page 44 of 178

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	and the second second second	

Sample ID: W 11 (H210116-11)

BTEX 8021B	mg/kg		Analyze	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 (PIL 103 % 73.3-129

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/20/2021	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.3-14	4						

Surrogate: 1-Chlorooctadecane 75.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

		BRUCE BA	MARLAND BLVD.		
		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)

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 (PIE 99.1 % 73.3-129

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/20/2021	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.3-14	4						

Surrogate: 1-Chlorooctadecane 78.5 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	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)

BTEX 8021B	mg/k	g	Analyze	d 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 (PIL	98.8 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/l	cg	Analyze	d By: AC					

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	1040	16.0	01/20/2021	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS	-				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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					
Surmanta: 1 Chlamaatana	20.0	0/ 1/214	4						
Surrogate: 1-Chlorooctane	80.8	% 44.3-14	4						

Surrogate: 1-Chlorooctadecane 81.6% 42.2-156

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Celey D. Keene, Lab Director/Quality Manager





Analytical Results For:

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

Received:	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 14 (H210116-14)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIL 99.7 % 73.3-129

Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	01/20/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS		- <u> </u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	84.6	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



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 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 (PIE 98.4 % 73.3-129

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/20/2021	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS		-		_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.3-14	4					-	
and the state of t									

Surrogate: 1-Chlorooctadecane 71.7 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager





Analytical Results For:

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

Received:	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 2 (H210116-16)

BTEX 8021B	mg,	kg	Analyze	d By: MS					-
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIL 99.8 % 73.3-129

Chloride, SM4500CI-B	mg/kg		Analyze	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	% 44.3-14	14						

Surrogate: 1-Chlorooctadecane 78.5 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

01/18/2021	Sampling Date:	01/18/2021
01/21/2021	Sampling Type:	Soil
GERONIMO #28	Sampling Condition:	Cool & Intact
NONE GIVEN	Sample Received By:	Jodi Henson
NONE GIVEN	and all the second and all the	
	01/21/2021 GERONIMO #28 NONE GIVEN	01/21/2021Sampling Type:GERONIMO #28Sampling Condition:NONE GIVENSample Received By:

Sample ID: B 3 (H210116-17)

BTEX 8021B	mg/kg		Analyze	d By: MS					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIL 99.8 % 73.3-129

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/20/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	77.1	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



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	Send to the second second	

Sample ID: B 4 (H210116-18)

BTEX 8021B	mg/	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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					
					5.98		6.00	C).764

Surrogate: 4-Bromofluorobenzene (PIL 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/l	kg	Analyze	d By: MS	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	6 44.3-14	4						
Surrogate: 1-Chlorooctadecane	81.0 9	6 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	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		and a set of the second set

Sample ID: B 5 (H210116-19)

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

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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.3-14	4						

Surrogate: 1-Chlorooctadecane 77.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager

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 6 (H210116-20)

mg/kg		Analyzed By: MS		_				
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	01/20/2021	ND	2.11	106	2.00	0.143	
<0.050	0.050	01/20/2021	ND	2.09	104	2.00	0.206	
<0.050	0.050	01/20/2021	ND	2.04	102	2.00	0.666	
<0.150	0.150	01/20/2021	ND	5.98	99.7	6.00	0.764	
<0.300	0.300	01/20/2021	ND					
	Result <0.050 <0.050 <0.050 <0.150	Result Reporting Limit <0.050	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank BS <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

Surrogate: 4-Bromofluorobenzene (PIE 99.2 % 73.3-129

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/20/2021	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.3-14	4	_					

Surrogate: 1-Chlorooctadecane 88.9% 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	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	of the first of the first of the	

Sample ID: B 7 (H210116-21)

Chievide CMATCOCL P

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

Chioride, SM4500CI-B	mg	/kg	Analyze	d 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	Analyze	d By: MS	-	_			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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: I-Chlorooctane	97.1	% 44.3-14	4					~ ~	
		A Distances							

Surrogate: 1-Chlorooctadecane 93.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager





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:	Jodí Henson
Project Location:	NONE GIVEN	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	

Sample ID: B 8 (H210116-22)

BTEX 8021B	mg,	/kg	Analyze	d By: MS	-				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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					
	<0,500	0.500	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIL 102 % 73.3-129

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1640	16.0	01/20/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.3-14	4						

Surrogate: 1-Chlorooctadecane 98.9% 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	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)

BTEX 8021B	mg/	kg	Analyze	d By: MS					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIL	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	01/20/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS	1.				
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					



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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 10 (H210116-24)

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

Chloride, SM4500CI-B	mg	/kg	Analyze	d 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	Analyze	d By: MS	_			_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.3-14	4						
Summantes I Chlomostalesena	010	12 12 2 15	-						

Surrogate: 1-Chlorooctadecane 94.0 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	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/l	(g	Analyze	d 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 (PIL	99.9%	6 73.3-129	9						
Chloride, SM4500CI-B	mg/k	(g	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1380	16.0	01/20/2021	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.3-14	4						

Surrogate: 1-Chlorooctadecane 87.7 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

5-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
+	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celley L. Kee

Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

I Nc | J No Corrected Temp. C

Released to Imaging: 9/8/2021 9:10:06 AM

+ Cardinal cannot accept verbal changes. Flease email changes to celey.keene@cardinallabsnm.com

Sampler - U	Delivered By:	Relinquish	PLEASE NOTE: L	LANDI
UPS - Bus - Other:	3y: (Circle One)	ied By:		2

(575) 393-2326 Company Name: VA	575) 393-2326 FAX (575) 393-2476	BILL TO	AN	ANALYSIS REQUEST
Project Manager:	0.*)C	P.O. #:		
Address:		Company:		
city: Hobos	State: ルルZip: 81240	Attn:		
Phone #:	Fax #:	Address:		
Project #:	Project Owner:	City:		
Project Name:		State: Zip:		
Project Location: General Mc	264 0	Phone #:		
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FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING		
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analyses All plaints inclusing trace for megipience and any c survice. In no event shall Contrinal be liable for encodential or c affiliates of surcessors ansarg out of or rolated to the perform	inition statuse whitesource as on the user the memory of the state of	t use of loss of profits incurred by the sed upon any of the above stated reas	T Vas T No	Add' Phone #:
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Sampler - UPS - Bus - Other:	Corrected Temp. °C	LAN .	Correction Factor ±04 °C	Nc No Corrected Temp. °C



Received by OCD: 6/4/2021 9:34:35 AM

Time: / 1% 21 Rephturshed By: (Circle One) Delivered By: (Circle One) Observed Temp. °C 2.4 Sampler - UPS - Bus - Other: Corrected Temp. °C	Address: City: Holdos Phone #: Project Name: Project Location: Correl Sampler Name: FOR LAB USE ONLY Lab I.D. Sal H2.10 IIII Sal H2.10 IIIII Sal H2.10 IIIII Sal H2.10 IIIII Sal H2.10 IIIII Sal H2.10 IIIII Sal H2.10 IIIII Sal H2.10 IIIIII Sal H2.10 IIIII Sal H2.10 IIIII Sal H2.10 IIIII Sal H2.10 IIIII Sal H2.10 IIIII Sal H2.10 IIIII Sal H2.10 IIIIII Sal H2.10 IIIIII Sal H2.10 IIIIIIIII Sal H2.10 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	101 Eas (575) Company Name: (20)	
Sample Condition CHECKED BY: Cool Integration Cool Integration Cool Integration Cool Integration	Zip: Company: Zip: Company: Attn: Address: GROUNDWATER State: WASTEWATER Phone #: WASTEWATER SOIL OIL SUDGE OTHER: ACID/BASE CONTAINERS CONTAINERS ACID/BASE OTHER: ACID/BASE OTHER: OTHER: OTHER:	2476 P.O. #:	Ŭ
All Results are emailed. Please provide Email address: REMARKS: Turnaround Time: Standard Bacteria (only) Sample Condition Thermometer ID HIT: Rush Cool Intact Observed Temp. °C Thermometer ID HIT: Condition Corrected Temp. °C	LUNG LUNG TIME TIME TIME Signal Signal Signal Signal Signal LUNG TIME Signal Signal Signal LUNG TIME Signal Signal Signal LUNG Signal Signal Signal Signal LUNG Signal Signal Signal LUNG Signal Signal Signal Signal LUNG Signal	ANALYSIS REQUEST	



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/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celecy D. Keine

Celey D. Keene Lab Director/Quality Manager

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Analytical Results For:

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

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

Sample ID: B 13 (H210127-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIL 100 % 73.3-129

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	01/21/2021	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS	1				
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	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	97.0	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	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	and the second	

Sample ID: B 14 (H210127-02)

BTEX 8021B	mg,	/kg	Analyze	d By: MS				- 6-5	
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 (PIL	99.2	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	01/21/2021	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

ND

ND

ND

228

243

114

122

200

200

2.21

0.519

01/20/2021

01/20/2021

01/20/2021

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GRO C6-C10*

DRO >C10-C28*

EXT DRO >C28-C36

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

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Celeg 2.t

<10.0

<10.0

<10.0

94.5%

92.7%

10.0

10.0

10.0

44.3-144

42.2-156

Celey D. Keene, Lab Director/Quality Manager



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

01/19/2021	Sampling Date:	01/19/2021
01/21/2021	Sampling Type:	Soil
GERONIMO #28	Sampling Condition:	Cool & Intact
NONE GIVEN	Sample Received By:	Tamara Oldaker
NONE GIVEN	Transfer in Production of the	
	01/21/2021 GERONIMO #28 NONE GIVEN	01/21/2021Sampling Type:GERONIMO #28Sampling Condition:NONE GIVENSample Received By:

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 (PIE 103 % 73.3-129

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3560	16.0	01/21/2021	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.3-14	4						
		5. S. S. S. S.							

Surrogate: 1-Chlorooctadecane 90.3 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	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 (PIL 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	93.5	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

		BRUCE BA	ARLAND BLVD.		
		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			and a subscription	

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 (PIL 103 % 73.3-129

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	01/21/2021	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS				2 - N		-
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	% 44.3-14	4						

Surrogate: 1-Chlorooctadecane 86.7% 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	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 18 (H210127-06)

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 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	
Toluene* <0.050	Qualifier
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 (PIL 105 % 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	2960	16.0	01/21/2021	ND	416	104	400	3.77		
TPH 8015M	mg/kg		Analyzed By: MS					1000		
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	% 44.3-14	4							
Surrogate: 1-Chlorooctadecane	107	% 42.2-15	6							

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Sample ID: B 19 (H210127-07)

Project Location:

mg/	kg	Analyzed By: ms						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	01/20/2021	ND	2.09	105	2.00	2.24	
<0.050	0.050	01/20/2021	ND	2.11	106	2.00	3.03	
<0.050	0.050	01/20/2021	ND	2.08	104	2.00	3.49	
<0.150	0.150	01/20/2021	ND	6.38	106	6.00	3.09	
<0.300	0.300	01/20/2021	ND					
	Result <0.050 <0.050 <0.050 <0.150	<0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank BS <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

Surrogate: 4-Bromofluorobenzene (PIL 104 % 73.3-129

NONE GIVEN

Chloride, SM4500CI-B Analyte	mg/kg		Analyzed By: AC						
	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						1
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	% 44.3-14	4						
5 1 011 1 1									

Surrogate: 1-Chlorooctadecane 81.4 % 42.2-156

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Analytical Results For:

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

Received:	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 20 (H210127-08)

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	2.09	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 (PIE 105 % 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	5280	16.0	01/21/2021	ND	416	104	400	3.77	
TPH 8015M	H 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	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	88.9	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

01/19/2021	Sampling Date:	01/19/2021
01/21/2021	Sampling Type:	Soil
GERONIMO #28	Sampling Condition:	Cool & Intact
NONE GIVEN	Sample Received By:	Tamara Oldaker
NONE GIVEN	and the second second	
	01/21/2021 GERONIMO #28 NONE GIVEN	01/21/2021Sampling Type:GERONIMO #28Sampling Condition:NONE GIVENSample Received By:

Sample ID: B 21 (H210127-09)

QC RPD	Qualifier
2.24	
3.03	
3.49	
3.09	
	3.49

Surrogate: 4-Bromofluorobenzene (PIL 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	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	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	86.5	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager


Analytical Results For:

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

Received:	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	and the internation of the	rundra oldaksi

Sample ID: B 22 (H210127-10)

BTEX 8021B	mg/l	kg	Analyze	d 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 (PIL	105 %	6 73.3-12	9						
Chloride, SM4500CI-B	ma/l	ka	Analyze	d By: AC					

entitue, shi4300cl-B	mg/	кд	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	83.3 %	42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	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		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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 (PIL 104 % 73.3-129

Chloride, SM4500CI-B	mg/kg		Analyze	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	Analyze	d By: MS	12				
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	% 44.3-14	4						

Surrogate: 1-Chlorooctadecane 93.7 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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	1. 1. S. S. Sternel M. 26	

Sample ID: B 24 (H210127-12)

mg/kg		Analyzed By: ms						_
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	01/20/2021	ND	2.09	105	2.00	2.24	
<0.050	0.050	01/20/2021	ND	2.11	106	2.00	3.03	
<0.050	0.050	01/20/2021	ND	2.08	104	2.00	3.49	
<0.150	0.150	01/20/2021	ND	6.38	106	6.00	3.09	
<0.300	0,300	01/20/2021	ND					
	Result <0.050 <0.050 <0.050 <0.150	Result Reporting Limit <0.050	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank. <0.050	Result Reporting Limit Analyzed Method Blank. BS <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

Surrogate: 4-Bromofluorobenzene (PIE 103 % 73.3-129

Chloride, SM4500CI-B	mg/l	(g	Analyze	d 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/l	g	Analyze	d By; MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 %	6 44.3-14	4						
Surrogate: 1-Chlorooctadecane	90.7 %	6 42.2-15	6						

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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 25 (H210127-13)

BTEX 8021B	mg,	/kg	Analyze	d By: ms				-	_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIL 103 % 73.3-129

Chloride, SM4500CI-B	mg/kg		Analyze	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	Analyze	d By: MS				- 1 -	
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	% 44.3-14	4						

Surrogate: 1-Chlorooctadecane 84.5 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432 Received: 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 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 (PIE 103 % 73.3-129

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte Chloride TPH 8015M	Result 880 mg,	Reporting Limit 16.0 / kg	Analyzed 01/21/2021 Analyze	Method Blank ND d By: MS	BS % Recovery 416 104		True Value QC 400	RPD 3.77	Qualifier
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	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	93.7	% 42.2-15	6						

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Analytical Results For:

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

Received:	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		Constant A secondary

Sample ID: B 27 (H210127-15)

BTEX 8021B	mg,	mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/20/2021	ND	2.09	105	2.00	2.24	
Toluene*	<0.050	0.050	01/20/2021	ND	2.11	105	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					

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte Chloride TPH 8015M	Result 3400 mg	Reporting Limit 16.0	Analyzed 01/21/2021	Method Blank ND ed By: MS	BS 416	% Recovery	True Value QC 400	RPD 3.77	Qualifier
Analyte	1.5.27.1			Crew These	14	1.22.1	11578.5.7		3.5.5
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	% 44.3-14	4						

Surrogate: 1-Chlorooctadecane 87.8 % 42.2-156

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

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

Sample ID: B 28 (H210127-16)

mg/kg		Analyzed By: ms						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	01/20/2021	ND	2.09	105	2.00	2.24	
<0.050	0.050	01/20/2021	ND	2.11	106	2.00	3.03	
<0.050	0.050	01/20/2021	ND	2.08	104	2.00	3.49	
<0.150	0.150	01/20/2021	ND	6.38	106	6.00	3.09	
<0.300	0.300	01/20/2021	ND					
	Result <0.050 <0.050 <0.050 <0.150	Result Reporting Limit. <0.050	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank BS <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

Surrogate: 4-Bromofluorobenzene (PIL 104 % 73.3-129

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte Chloride	Result	Reporting Limit 16.0	Analyzed 01/21/2021	Method Blank	BS 416	% Recovery 104	True Value QC 400	RPD 3.77	Qualifier
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	6 44.3-14	4						
Surrogate: 1-Chlorooctadecane	90.9 9	6 42.2-15	6						

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

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

Sample ID: B 29 (H210127-17) BTEX 8021B

	/kg	Hindlyac	d By: ms	_				
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	01/20/2021	ND	2.09	105	2.00	2.24	
<0.050	0.050	01/20/2021	ND	2.11	106	2.00	3.03	
<0.050	0.050	01/20/2021	ND	2.08	104	2.00	3.49	
<0.150	0.150	01/20/2021	ND	6.38	106	6.00	3.09	
<0.300	0.300	01/20/2021	ND					
	<0.050 <0.050 <0.050 <0.150	<0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150	<0.050	<0.050 0.050 01/20/2021 ND <0.050	<0.050 0.050 01/20/2021 ND 2.09 <0.050	<0.050 0.050 01/20/2021 ND 2.09 105 <0.050	<0.050	<0.050 0.050 01/20/2021 ND 2.09 105 2.00 2.24 <0.050

Surrogate: 4-Bromofluorobenzene (PIE 103 % 73.3-129

Chloride, SM4500CI-B	mg.	/kg	Analyze	d By: AC			_		
Analyte Chloride TPH 8015M	Result 1420	Reporting Limit	Analyzed 01/21/2021	Method Blank	BS 416	% Recovery 104	True Value QC 400	RPD 3.77	Qualifier
111 001314	mg	/kg	Analyze	d By: MS				-	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.3-14	4						

Surrogate: 1-Chlorooctadecane 87.1% 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



		BRUCE BA	MARLAND BLVD.		
		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			and a second second	

Sample ID: B 30 (H210127-18)

mg/kg		Analyzed By: ms						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	01/20/2021	ND	2.09	105	2.00	2.24	
<0.050	0.050	01/20/2021	ND	2.11	106	2.00	3.03	
<0.050	0.050	01/20/2021	ND	2.08	104	2.00	3.49	
<0.150	0.150	01/20/2021	ND	6.38	106	6.00	3.09	
<0.300	0.300	01/20/2021	ND					
	Result <0.050 <0.050 <0.050 <0.150	Result Reporting Limit <0.050	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank BS <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

Surrogate: 4-Bromofluorobenzene (PIL 105 % 73.3-129

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte Chloride	Result 1880	Reporting Limit	Analyzed 01/21/2021	Method Blank	BS 400	% Recovery 100	True Value QC 400	RPD 3.92	Qualifier QM-07
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.3-14	4						

Surrogate: 1-Chlorooctadecane 87.1 % 42.2-156

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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 31 (H210127-19)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIL 103 % 73.3-129

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3480	16.0	01/21/2021	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS		-			-
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.3-14	4						
e									

Surrogate: 1-Chlorooctadecane 94.4 % 42.2-156

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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	and the second second second second	

Sample ID: B 32 (H210127-20)

BTEX 8021B	mg/kg		Analyze	d By: ms	_	-			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	105	6.00	3.09	
Total BTEX	<0.300	0.300	01/20/2021	ND					
Total BTEX	<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIL 104 % 73.3-129

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6720	16.0	01/21/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	91.9	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



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

Sampling Date:	01/19/2021
Sampling Type:	Soil
Sampling Condition:	Cool & Intact
Sample Received By:	Tamara Oldaker
and a subset of the state	
	Sampling Condition:

Sample ID: B 33 (H210127-21)

BTEX 8021B	mg/kg		Analyze	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 (PIL 104 % 73.3-129

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6880	16.0	01/21/2021	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS		5			
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	% 44.3-14	4						
Sumarata I Chlomed dama	nca		~						

Surrogate: 1-Chlorooctadecane 96.0 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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 34 (H210127-22)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					-
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIL 104 % 73.3-129

Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC	-				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10400	16.0	01/21/2021	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	96.9	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



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 35 (H210127-23)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIL 101 % 73.3-129

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6660	16.0	01/21/2021	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS		L		-	
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	% 44.3-14	4						

Surrogate: 1-Chlorooctadecane 96.1% 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

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

Sample ID: B 36 (H210127-24)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIL 101 % 73.3-129

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5060	16.0	01/21/2021	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	90.0	% 42.2-15	6						

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Celey D. Keene, Lab Director/Quality Manager



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 37 (H210127-25)

Result								
, income	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	01/21/2021	ND	2.23	111	2.00	3.15	
<0.050	0.050	01/21/2021	ND	2.20	110	2.00	2,54	
<0.050	0.050	01/21/2021	ND	2.15	107	2.00	2.40	
<0.150	0.150	01/21/2021	ND	6.26	104	6.00	2.35	
<0.300	0.300	01/21/2021	ND					
	<0.050 <0.050 <0.050 <0.150	<0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150	<0.050	<0.050 0.050 01/21/2021 ND <0.050	<0.050 0.050 01/21/2021 ND 2.23 <0.050	<0.050 0.050 01/21/2021 ND 2.23 111 <0.050	<0.050 0.050 01/21/2021 ND 2.23 111 2.00 <0.050	<0.050

Surrogate: 4-Bromofluorobenzene (PIE 101 % 73.3-129

Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC				_	
Analyte	Result	Reporting Limit	Analyzed 01/21/2021	Method Blank ND	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 8015M	mg/			d By: MS	400	100	400	3.92	
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 9	<i>Va</i> 44.3-14	4						
Surrogate: 1-Chlorooctadecane	109 9	% 42.2-15	6						

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Celleg Z.



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 SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg There

Celey D. Keene, Lab Director/Quality Manager

CARDINAL

Received by OCD: 6/4/2021 9:34:35 AM

101 East Marland, Ho (575) 393-2326 FAX er: Bruck Bulky	P.O. #: Company Attn: Address: City: State: Phone #:	BILL TO	ANALYSIS REQUEST
Queresles	Fau		
	S ER	SAMPLING	
Halolan	(G)RAB OR (C)C # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: (CE) COOL OTHER :		
Con BBS		200	
PLEASE NOTE: Liability and Damages Cardina's liability and client's service in the		2:34	
ause whatsoeve luental damage of services here	In the deemed wind window based in contract or fort, shall be limited to the anounin guid it shall be deemed window thess made in writing and received by Cardinal which 30 days after a, including without limitation, business interruptions loss of use, or loss of profits incurred by cu under by Cardinal, regardless of whether such claim is based upon any of the above satisfy to and the such as the such claim is based upon any of the above satisfy to an another between the such claim is based upon any of the above satisfy to an an a	1 a anount paid by the client for the 1 30 days after completion of the applicable incurred by client, its subadiaries. ove stated reasons or otherwise.	-
Time:	Received By: Received By:	Verbai Result: All Results are emailed. Pie REMARKS:	No Add'l Phone #: ase provide Email address:
Delivered By: (Circle One) Observed Temp. °C 4. Sampler - UPS - Bus - Other: Corrected Temp. °C	4.1 Sample Condition CHECKED BY: Cool Intact (Initials)	BY: Turnaround Time: Standard) Themometer ID #113 Correction Factor None	Ind Bacteria (only) Sample Condition Cool Intact Observed Temp. °C



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Sampler - UPS - Bus - Other: Relinquished By: Relinquished By analyzes All claims including these for negligence and any other cause whatsoever shall be de service. In no event shall Cardinal be liable for incidential or consequental damages including w Delivered By: (Circle One) PLEASE NOTE: City: Sampler Name: Project Location: Project Name: Phone #: areh Project #: Project Manager: Brune Ben Now Company Name: Provide-FOR LAB USE ONLY Address: Lab I.D. R Liability and Dar 6 Houss 20 0 U (Carren 832 333 2006 out of or rel 831 830 Bay 308 10 8 B 829 827 Deservine TXC. Sample I.D. Observed Temp. °C Time: 4:42 Sect Time: Date: ental damages, including without lim Project Owner: Fax #: 20 State: NY Zip: 28240 (19/2) inder by C Received By Received By: (G)RAB OR (C)OMP) # CONTAINERS abon, busin Sample Condition Cool Intact Tes Tes No No No unless made in writing and received by Cardinal within 30 days after completion of the applicable in, business interruptions, loss of use, or loss of profits incurred by client, its subsidianes, GROUNDWATER WASTEWATER MATRIX SOIL OIL SLUDGE OTHER Fax #: State: City: Phone #: P.O. #: Address: Attn: Company: ACID/BASE PRESERV CHECKED BY: ICE COOL (Initials) of the above stated OTHER BILL TO Zip: DATE SAMPLING paid by the client All Results are emailed. Please provide Email address: Turnaround Time: 00000 REMARKS: Verbal Result: 2:54 2:5 à 2:5 C TIME 5 O Yes Standard D No DÓ Add'l Phone #: ANALYSIS REQUEST Bacteria (only) Sample Condition Cool Intact Observed Temp. Ves Yes Nc No Corrected Temp.

Corrected Temp. °C

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

C

Thermometer ID #113 Correction Factor None

Observed Temp, °C Corrected Temp. °C



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

ess:	re Barles	ANALYSIS REQUEST
City: HOLASS Phone #:	Company: Stateかいん Zip: ぐどうれぐ Attn: Fax #: Address:	
Project #: Project Name	Project Owner: City:	
Project Location:	200	
N.	Phone #	
FOR LAB USE ONLY	MATRIX	NG
Lab I.D. S	E : ASE: DOL	112H Z.Y.
Haulan	# CONT GROUN WASTEN SOIL OIL SLUDGE OTHER ACID/BA	TIME CLATE
B34		3:04 ////////////////////////////////////
the state of the s		
LEASE NOTE: Liability and Damages. Cardinal nalyses. All claims: including those for negligence invice. In no event shall Cardinal be liable for inc	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any cliant arising whether based in contract or bot, shall be imited to the amount paid by the client for the service in no event shall Cardinal to liability and or consequent at management shall be denied when 30 days after complotion of the and-whether service in no event shall Cardinal whith 30 days after complotion of the and-whether service in the service in	client for the
Relinquished By:	affiliate or successors attising out of or related to the performance of sam/ces hareoundary without immithem business made in writing and received by Cardinal within 30 days after completion of the a affiliate or successors attising out of or related to the performance of sam/ces hereundar by Cardinal, regardless of whether such claims to ased upon any of the above stated reasons or otherwise. Relinquished By: Date: Date: N/2 Received By: Verbal Result of the Subscience of the Subscience of Subsciences of Cardinal, regardless of whether such claims to based upon any of the above stated reasons or otherwise. Verbal Results at Time: Note of Subscience of Subscie	r completion of the applicable lient, its subsidianes. Store of otherwise Verbal Result:
Relinquished By:	Received By:	REMARKS:
Delivered By: (Circle One)	Observed Temp. °C (Initials)	Turnaround Time: Standard Bacteria (only) Sample Condition

Page 30 of 30

Page 92 of 178



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.tceg.texas.gov/field/ga/lab accredited certif.html.

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

Method EPA 552.2	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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager

Analytical Results For:

APACHE CORP - HOBBS	Project:	GERONIMO #28	Reported:
2350 W. MARLAND BLVD.	Project Number:	NONE GIVEN	28-Jan-21 11:52
HOBBS NM, 88240	Project Manager:	BRUCE BAKER	
	Fax To:	(575) 393-2432	

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
3 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 08:4
B 49	H210143-12	Soil	20-Jan-21 11:26	21-Jan-21 08:4
B 50	H210143-13	Soil	20-Jan-21 11:28	21-Jan-21 08:45
3 51	H210143-14	Soil	20-Jan-21 11:30	21-Jan-21 08:4
B 52	H210143-15	Soil	20-Jan-21 11:32	21-Jan-21 08:4
B 53	H210143-16	Soil	20-Jan-21 11:34	21-Jan-21 08:4
B 54	H210143-17	Soil	20-Jan-21 11:36	21-Jan-21 08:4
B 55	H210143-18	Soil	20-Jan-21 11:38	21-Jan-21 08:4
B 56	H210143-19	Soil	20-Jan-21 11:40	21-Jan-21 08:4
B 57	H210143-20	Soil	20-Jan-21 11:42	21-Jan-21 08:4
B 58	H210143-21	Soil	20-Jan-21 11:44	21-Jan-21 08:4
B 59	H210143-22	Soil	20-Jan-21 11:46	21-Jan-21 08:4
B 60	H210143-23	Soil	20-Jan-21 11:48	21-Jan-21 08:4
B 61	H210143-24	Soil	20-Jan-21 11:50	21-Jan-21 08:4
B 62	H210143-25	Soil	20-Jan-21 14:22	21-Jan-21 08:4
B 63	H210143-26	Soil	20-Jan-21 14:24	21-Jan-21 08:4
B 64	H210143-27	Soil	20-Jan-21 14:26	21-Jan-21 08:4

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APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240		Project Number: Project Manager:		Reported: 28-Jan-21 11:52
В 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.

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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		
			Cardina	l Laborat	tories							
Inorganic Compounds						-						
Chloride	720		16.0	mg/kg	4	1012102	AC	22-Jan-21	4500-CI-B			
Volatile Organic Compounds 1	ov 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)	k.		97.9 %	73.3	-129	1012104	MS	21-Jan-21	8021B			
Petroleum Hydrocarbons by G	C 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			

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Celeg & Keine

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 47



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			
			H2101	B 39 143-02 (Se	oil)						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	ories						
Inorganic Compounds	_						_				
Chloride	1170		16.0	mg/kg	4	1012102	AC	22-Jan-21	4500-Cl-B		
Volatile Organic Compounds by	v 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 G	C 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	Ĺ	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		

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Celeg Z. Kee

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			
			H210	B 40	oil)						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	tories						
Inorganic Compounds											
Chloride	240		16.0	mg/kg	4	1012102	AC	22-Jan-21	4500-Cl-B		
Volatile Organic Compounds b	y 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 G	C 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		

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240			Project: GERONIMO #28 Project Number: NONE GIVEN Project Manager: BRUCE BAKER Fax To: (575) 393-2432					Reported: 28-Jan-21 11:52			
			H210	B 41 143-04 (Se	oit)						
					////						
Analyte	Result	MDL.	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	ories						
Inorganic Compounds	-		1.1								
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		

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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		
			H210	B 42	oil)						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	tories						
Inorganic Compounds						-					
Chloride	1300		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	MŚ	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	C 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	Ì.	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		

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APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240		1	Project: GERONIMO #28 Project Number: NONE GIVEN Project Manager: BRUCE BAKER Fax To: (575) 393-2432					Reported: 28-Jan-21 11:52			
			H210	B 43	pil)	1					
	1.42	فيدد	Reporting Limit						Carro	1.5.1	
Analyte	Result	MDL	Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	tories						
Inorganic Compounds											
Chloride	896		16.0	mg/kg	4	1012203	AC	22-Jan-21	4500-Cl-B		
Volatile Organic Compounds b	y 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 G	C 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		

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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			
			H210	B 44 143-07 (Se	ail)				_		
			11210.	143-07 (30	511)						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	tories						
Inorganic Compounds					1. Carlos		_				
Chloride	2280		16.0	mg/kg	4	1012203	AC	22-Jan-21	4500-Cl-B		
Volatile Organic Compounds by	EPA Method	8021									
Benzene*	<0.050	1.1	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	T.	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		

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Celey D. Keene, Lab Director/Quality Manager

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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			
			11210	B 45							
			H210.	143-08 (Se	011)						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Labora	ories						
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		

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Analytical Results For:

APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240			Proj Project Num Project Mana Fax		Reported: 28-Jan-21 11:52					
			11210	B 46	-95					
			H210	143-09 (Se	ou)					
Analyte	Result	MDL.	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
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	4	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	

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APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240			Project Num Project Mana	Project: GERONIMO #28 oject Number: NONE GIVEN ject Manager: BRUCE BAKER Fax To: (575) 393-2432					Reported: 28-Jan-21 11:52			
			H210	B 47	oil)							
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes		
			Cardina	l Labora	tories							
Inorganic Compounds	_											
Chloride	3680		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)			99.4 %	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	ĩ	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			

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Celey D. Keene, Lab Director/Quality Manager

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			
			H210	B 48 143-11 (Se	oil)						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	ories						
Inorganic Compounds	_										
Chloride	2000		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)			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-Chloroociadecane			82.9 %	42.2	-156	1012108	MS	21-Jan-21	8015B		

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Celey D. Keene, Lab Director/Quality Manager



APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240			Project Num Project Mana	ber: NOI ger: BRL			2	Reported: 28-Jan-21 11:52		
			11310	B 49						
			H210.	143-12 (Se	on)	_				_
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds	_						_	-		
Chloride	6260		16.0	mg/kg	4	1012203	AC	22-Jan-21	4500-CI-B	
Volatile Organic Compounds b	v EPA Method	8021	1							
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-Bromofluorohenzene (PID)			99.2 %	73.3	-129	1012111	MS	21-Jan-21	8021B	
Petroleum Hydrocarbons by G	C 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	4	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	

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APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240			Project Num Project Mana	Project: GERONIMO #28 Project Number: NONE GIVEN Project Manager: BRUCE BAKER Fax To: (575) 393-2432					Reported: 28-Jan-21 11:52			
			H210	B 50 143-13 (Se	oil)							
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes		
			Cardina	l Laborat	tories							
Inorganic Compounds							_	_				
Chloride	9860	-	16.0	mg/kg	4	1012203	AC	22-Jan-21	4500-Cl-B			
Volatile Organic Compounds h	ov EPA Method	8021										
Benzene*	< 0.050	1.14	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 G	C 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			

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Celey D. Keene, Lab Director/Quality Manager

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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		
			H210	B 51 143-14 (Se	oil)					
				110 11 (5)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			_		
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds				_						
Chloride	7060		16.0	mg/kg	4	1012203	AC	22-Jan-21	4500-CI-B	
Volatile Organic Compounds I	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)	1		99.4 %	73.3	129	1012111	MS	21-Jan-21	8021B	
Petroleum Hydrocarbons by G	C 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 21-Jan-21	8015B 8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21 21-Jan-21	8015B 8015B	
Surrogate: 1-Chlorooctane			95.3 %	44.3-	144	1012108	MS	21-Jan-21	8015B	
Surrogate: 1-Chlorooctadecane			99.5 %	42.2-		1012108	MS	21-Jan-21	8015B	

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APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240			Project Num Project Mana	ber: NOI ger: BRL				2	Reported: 28-Jan-21 11:	52
			H210	B 52	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds				_	_	_				
Chloride	8400		16.0	mg/kg	4	1012203	AC	22-Jan-21	4500-Cl-B	
Volatile Organic Compounds b	v 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 G	C 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	

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Celey D. Keene, Lab Director/Quality Manager

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

Analytical Results For:

APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240			Project Num Project Mana	ber: NOI ger: BRL					Reported: 28-Jan-21 11:	52
			H210	B 53	,il)					
		-	11210	43-10 (50	лш)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds	_				- 100 C					_
Chloride	4400		16.0	mg/kg	4	1012203	AC	22-Jan-21	4500-C1-B	
Volatile Organic Compounds by	EPA Method	8021		1						
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	

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APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240			Project Num Project Mana	ber: NOI ger: BRL					Reported: 28-Jan-21 11:	52
				B 54						
		_	H210	143-17 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
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 C	C 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	

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Celey D. Keene, Lab Director/Quality Manager

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

Analytical Results For:

APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240	-		Project Num Project Mana	iber: NOI iger: BRU					Reported: 28-Jan-21 11:	52
			H210	B 55 143-18 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Anthroph	11.1.1	
	result	MOL	Luni	Omis	Dilation	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds	_	_								
Chloride	5730		16.0	mg/kg	4	1012203	AC	22-Jan-21	4500-CI-B	
Volatile Organic Compounds I	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 G	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	0	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-Chlorooclane			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	

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APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240			Project Num Project Mana	iber: NOI iger: BRL					Reported: 28-Jan-21 11:	52
			H210	B 56	sil)					
			11210.	143-13 (50	,m)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
1.00			Cardina	l Laborat	ories					
Inorganic Compounds	-									
Chloride	7460		16.0	mg/kg	4	1012203	AC	22-Jan-21	4500-Cl-B	
Volatile Organic Compounds b	v 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)	hi i		100 %	73.3	-129	1012111	MS	22-Jan-21	8021B	
Petroleum Hydrocarbons by G	C 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	i	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	

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Analytical Results For:

APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240			Project Num Project Mana	iber: NOI iger: BRU				2	Reported: 28-Jan-21 11:	52
			H210	B 57	oil)					
				145-20 (50	,iii)		_			
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds					-					
Chloride	9730		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 GG	C 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	Ĩ.	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	

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Celley & Keen



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

Analytical Results For:

APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240			Project Num Project Mana	iber: NOI iger: BRL					Reported: 28-Jan-21 11:	52
			H210	B 58	oil)	1				
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
- 10 57			Cardina	l Laborat	ories					
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	
Fotal 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	

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Celey D. Keene, Lab Director/Quality Manager



APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240			Project Num Project Mana	iber: NOI iger: BRU					Reported: 28-Jan-21 11:	52
			H210	B 59 143-22 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories			_		
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	
Foluene*	<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	J	1012108	MS	21-Jan-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21 21-Jan-21	8015B 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	982	1012108	MS	21-Jan-21	8015B	

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Celeg D. Kee



APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240			Project Num Project Mana	iber: NOI iger: BRU	Ronimo #2 Ne given JCE Baker 5) 393-243				Reported: 28-Jan-21 11:	52
			H210	B 60 143-23 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
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	

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Celler T. Keene

Celey D. Keene, Lab Director/Quality Manager

APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240			Project Num Project Mana	iber: NOI iger: BRU					Reported: 28-Jan-21 11:	52
			H210	B 61 143-24 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labora	tories					
Inorganic Compounds										
Chloride	4400		16.0	mg/kg	4	1012110	AC	22-Jan-21	4500-CI-B	QM-07
Volatile Organic Compounds b	y 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 G	C 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	i	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	

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Celeg D. Kein



APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240	•		Project Num Project Mana	ber: NOI ger: BRU				-	Reported: 28-Jan-21 11:	52
			H210	B 62	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	7520		16.0	mg/kg	4	1012110	AC	22-Jan-21	4500-CI-B	
Volatile Organic Compounds b	v 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 G	C 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	I	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	

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Celley 2. Keene

Celey D. Keene, Lab Director/Quality Manager

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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 43-26 (Se	oil)						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	ories						
Inorganic Compounds	-				_						
Chloride	7330		16.0	mg/kg	4	1012110	AC	22-Jan-21	4500-CI-B		
Volatile Organic Compounds by	v 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-Bromofluorohenzene (PID)			99.6 %	73.3	-129	1012111	MS	22-Jan-21	8021B		
Petroleum Hydrocarbons by Go	C 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		

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APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240			Project Num Project Mana	iber: NOI iger: BRU				-	Reported: 28-Jan-21 11:52		
			H210	B 64 143-27 (Se	oil)						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	tories						
Inorganic Compounds											
Chloride	8660	1	16.0	mg/kg	4	1012110	AC	22-Jan-21	4500-CI-B		
Volatile Organic Compounds b	v 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 G	C 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		

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APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240	50 W. MARLAND BLVD. Project Number: NONE GIVEN 28-Jan-2										
			H2101	B 83 43-28 (Se	oil)						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	tories						
Inorganic Compounds	_		1.13.1								
Chloride	6400		16.0	mg/kg	4	1012110	AC	22-Jan-21	4500-Cl-B		
Volatile Organic Compounds I	oy 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 C	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		

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Celez Keen



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			
			H210	B 84	(i)							
			iiiiii	(45-27 (5)	,iii)		-					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes		
			Cardina	l Laborat	ories							
Inorganic Compounds					1000							
Chloride	8400		16.0	mg/kg	4	1012110	AC	22-Jan-21	4500-Cl-B			
Volatile Organic Compounds b	y 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 G	C 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	т	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			

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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			
			H210	B 85)							
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes		
			Cardina	l Laborat	ories							
Inorganic Compounds			-									
Chloride	4080		16.0	mg/kg	4	1012110	AC	22-Jan-21	4500-C1-B			
Volatile Organic Compounds I	ov 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)	6.7		99.1 %	73.3	129	1012206	MS	22-Jan-21	8021B			
Petroleum Hydrocarbons by G	C 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		1012202	MS	22-Jan-21	8015B			

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Celleg L. Keine



APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240	Project: GERONIMO #28 Reporte D. Project Number: NONE GIVEN 28-Jan-21 Project Manager: BRUCE BAKER Fax To: (575) 393-2432										
			H210	B 86	oil)						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	ories						
Inorganic Compounds						_					
Chloride	6640	-	16.0	mg/kg	4	1012110	AC	22-Jan-21	4500-Cl-B		
Volatile Organic Compounds I	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	i.	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		

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APACHE CORP - HOBBS	Project:	GERONIMO #28	Reported:
2350 W. MARLAND BLVD.	Project Number:	NONE GIVEN	28-Jan-21 11:52
HOBBS NM, 88240	Project Manager:	BRUCE BAKER	
	Fax To:	(575) 393-2432	

Inorganic Compounds - Quality Control

Cardinal Laboratories Reporting Spike Source %REC RPD Analyte Result Limit Units Level Result %REC Limits 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 16.0 400 mg/kg 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 16.0 400 mg/kg 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

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Celeg D. Kees

Celey D. Keene, Lab Director/Quality Manager



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				
	Ino	rganic Com Cardiı		s - Quality poratories							
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	ma/ka	400		104	80 100	2.02	20		

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

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

APACHE CORP - HOBBS	Project:	GERONIMO #28	Reported:
2350 W. MARLAND BLVD.	Project Number:	NONE GIVEN	28-Jan-21 11:52
HOBBS NM, 88240	Project Manager:	BRUCE BAKER	
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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1012104 - Volatiles				Stat		, undere	-		Ladut	140105
								_		
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 8	& 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			

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Celey D. Keene, Lab Director/Quality Manager



APACHE CORP - HOBBS	Project:	GERONIMO #28	Reported:
2350 W. MARLAND BLVD.	Project Number:	NONE GIVEN	28-Jan-21 11:52
HOBBS NM, 88240	Project Manager:	BRUCE BAKER	
	Fax To:	(575) 393-2432	

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								1		
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-BSD1)				Prepared &	Analyzed:	21-Jan-21				
Benzene	2.13	0.050	mg/kg	2.00		106	72.2-131	2.50	14.6	
Foluene	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			
Foluene	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		-	

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Celey D. Keene, Lab Director/Quality Manager



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APACHE CORP - HOBBS	Project:	GERONIMO #28	Reported:
2350 W. MARLAND BLVD.	Project Number:	NONE GIVEN	28-Jan-21 11:52
HOBBS NM, 88240	Project Manager:	BRUCE BAKER	
	Fax To:	(575) 393-2432	

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			

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APACHE CORP - HOBBS	Project:	GERONIMO #28	Reported:
2350 W. MARLAND BLVD.	Project Number:	NONE GIVEN	28-Jan-21 11:52
HOBBS NM, 88240	Project Manager:	BRUCE BAKER	
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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	1.1.1	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-BSD1)				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

			Prepared & Anal	yzed: 21-Jan-21		
ND	10.0	mg/kg				
ND	10.0	mg/kg				
ND	10.0	mg/kg				
45.6		mg/kg	50.0	91.T	44.3-144	
47.0		mg/kg	50.0	94.0	42.2-156	
	ND ND 45.6	ND 10.0 ND 10.0 45.6	ND 10.0 mg/kg ND 10.0 mg/kg 45.6 mg/kg	ND 10.0 mg/kg ND 10.0 mg/kg ND 10.0 mg/kg 45.6 mg/kg 50.0	ND 10.0 mg/kg ND 10.0 mg/kg ND 10.0 mg/kg 45.6 mg/kg 50.0 91.1	ND 10.0 mg/kg ND 10.0 mg/kg 45.6 mg/kg 50.0 91.1 44.3-144

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Analytical Results For:

APACHE CORP - HOBBS	Project:	GERONIMO #28	Reported:
2350 W. MARLAND BLVD.	Project Number:	NONE GIVEN	28-Jan-21 11:52
HOBBS NM, 88240	Project Manager:	BRUCE BAKER	
South of the state	Fax To:	(575) 393-2432	

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-BSD1)				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	100	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			
Summer 1 Chlosen to 1	40.4		mg/kg	50.0		80.7	44.3-144			
Surrogate: 1-Chlorooctane	40,4		mg/kg	20.0		00.7	44.3-144			

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Celey D. Keene, Lab Director/Quality Manager



APACHE CORP - HOBBS	Project:	GERONIMO #28	Reported:
2350 W. MARLAND BLVD.	Project Number:	NONE GIVEN	28-Jan-21 11:52
HOBBS NM, 88240	Project Manager:	BRUCE BAKER	
	Fax To:	(575) 393-2432	

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 - Orga	nics									
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			

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Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 6/4/2021 9:34:35 AM



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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Released to Imaging: 9/8/2021 9:10:06 AM

BILL TO P.O. # Company: Address: GROUNDWATER WASTEWATER SoliL OIL State: SoliL OIL State: SoliL OIL State: Cool India DATE DATE DATE DATE OOL OOL OOL OOL OTHER: Interdiant whith 3d days after Interdia value and reserved by Candinal whith 3d days after Interding where tasked upon any	analyzes All claims including these for negligence and service in no event shall Cardinal to liable for incident anfiliates or successors analyzed by: Relinquished By: Delivered By: (Circle One) Sampler - UPS - Bus - Other:	B46 B46 B46 B46 B46 B46 B46 B46 B46 B46	101 East Marla (575) 393-232
BILL TO P.O. #: Company: Address: City: State: State: Zip: Phone #: Fax #: Fax #: DATE OTHER: DATE OTHER: Company: Address: Zip: Phone #: Fax #: Fax #: DATE TIME OTHER: DATE TIME OTHER: DATE TIME OTHER: DATE TIME ICE / COOL OTHER: G.G.G.G.G.G.G.G.G.G.G.G.G.G.G.G.G.G.G.	any other cause whatsoever shall be deemed waved unless made in w al or consequential damages. Including without limitation, business mitting thrance of services thereindeer by Received By: Date: Received By: Date: Received By: Time: Observed Temp. °C // 3 Sample C Cool In Corrected Temp. °C // 3 No		101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
	and received by Cardinal within 30 days after completions or otherwise th claim is based upon any of the acover stated treatment of the vertices are dreated by Clerit as cubicalises War Werbal Results: All Results are emailed. F All Results are emai	DIL SLUDGE OTHER: Attn: Attn: State: Zip: Phone #: Fax #: ICE/COOL OTHER: DATE TIME ICE/COOL OTHER: ICE/COOL OTHER: OTHER: ACID/BASE ICE/COOL OTHER: OTHER ICE/COOL OTHER: ICE/COOL OTHER: ICE/COOL	

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Received by	<i>OCD</i> :	6/4/2021	9:34:35 AM
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Sample I.D. Sample I.D. Sample I.D. Sample I.D. Solution of the set of th	BSS C C C C C C C C C C C C C C C C C C	And Damages. Cardinal's liability and client's exclusive remedy for any client ansing whether based in contrad or tort, shall be united to the amount paid by the client for during these for negligence and any other cause whatsoever shall be deemed warved unites made on whites and exclusive to complete on of the deem deemed warved united to the encount paid by the completion of the curve whatsoever shall be deemed warved unites made on whites and the curve deem deemed by cardinal within 30 dags after completion of the curve whatsoever shall be deemed warved unites made on whites and the curve deemed by cardinal within 30 dags after completion of the curve whatsoever is a ubed and the shall be incidential or consequential damages including without inmation, busines interruptions is as true or is or portion incidential or consequential damages including without inmation, busines interruptions is as true or incidential or consequential damages including without inmation, busines interruptions is a true or indiced to the performance of services hereunder by Cardinal. Received By: Date: Date	Times cut Received By:	Relinquished By: Date: Received By: Received By:	(575) 393-2326 Company Name: Address: Project Manager: Bruuu B Address: City: Hobbs B Project Name: Project	(575) 393-2326 FAX (575) 393-2476 April A. Ballin G Fax #: Project Owner: Fax #: Project Owner: Fax #: Sample I.D. (G) RAB OR (C) OM BSSG (G) RAB OR (C) OM	BILL TO P.O. # Company: Attn: Address: City: State: Zip: Phone #: Preserv. State: DATE TIME ACID/BASE: OTHER: ACID/BASE: OTHER: DATE TIME DATE TIME SLUDGE OTHER: ACID/BASE: DATE DATE TIME SLUDGE OTHER: ACID/BASE: DATE IIII 200 IIII 201 IIII 201 IIII 201 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	ANALYSIS
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Laboratories

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101 East Marland, Hobbs, NM 88240

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anager: Bruck Bally		ANALYSIS REQUEST
Phone #: Fax #:	0000	
	Project Owner: City:	
Project Name:	State: Zip:	
Project Location: Sectioning	Phone #:	
FOR LAB USE ONLY	MATRIX PRESERV.	SAMPLING
Lab I.D. Sample I.D.	(G)RAB OR (C)OME # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: (CE) COOL OTHER :	TIME CL EXTTPH BTEX
and BSX and BSX and BSX and BSX Rbi		
2 Blaz		2:24 2:24 11/1 11/1
** 49 84 83		2:30
PLEASE NOTE: Liability and Damages. Cardinat's liability and client's excluse analyses. All claims including those for negigibre and any other cause what service in no event shall Cardinal be liable for incidental or consequental da	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remarky for any cleim arising whether based in contract or tort, shell be limited to the amount paid by the client for the analyses. All claims including those for neglogence 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 lable for incidental or consequential damages, including without limitation, business interruptions, loss of use of policits incurred by client. Its subadance, service in no event shall Cardinal be lable for incidental or consequential damages, including without limitation, business interruptions, loss of used of policits incurred by client. Its subadance.	unt pad by the client for the applicable ags after completion of the applicable ed by client, its subsolutions, and the construction for the subsolution and the construction for obtained the subsolution of the subsoluti
affants or successors ariang out of or related to the performance of services Relinquished By: Time Relinquished By: Date:	Time SHS Received By: Date: Received By: Verbal Results are Date: Received By: Date: Received By: Received By	Verbal Result: Verbal Result: Verbal Results are emailed. Please provide Email address: REMARKS:
Delivered By: (Circle One) Observed Sampler - UPS - Bus - Other: Corrected	Observed Temp. °C 1.3 Sample Condition CHECKED BY: Cool Intact (Initials) Corrected Temp. °C No	Turnaround Time: Standard Bacteria (only) Sample Condition Thermometer ID #113 Cool Intact Observed Temp. °C Correction Factor None Intact No Corrected Temp. °C

Received by OCD: 6/4/2021 9:34:35 AM

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

City: affiliates or successors arising out of or related to the Relinguished By: Sampler Name: Project Name: Project #: Phone #: Project Manager: Bruch Bule M Company Name: Relinquished By: service In no event shall Cardinal be liable analyses All claims including those for negligence and any other Project Location: Address: PLEASE NOTE: Sampler - UPS - Bus - Other: Delivered By: (Circle One) SHIDIRA Lab I.D. FOR LAB USE ONLY 31 80% 86 eski mapping and m Hubbos Ap acho (575) 393-2326 FAX (575) 393-2476 Sample I.D. for inc Corrected Temp. °C Observed Temp. °C Fax #: fime Project Owner: Date: Time: State: WWZip: 88240 † Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com ate-1--2 wer shall be deemed w 2. (G)RAB OR (CTOMP) Received By: Received By: **# CONTAINERS** waived unless made in writing and received by Cardinal s GROUNDWATER Sample Condition Cool Intact Yes Yes No No No WASTEWATER MATRIX SOIL OIL SLUDGE P.O. #: loss of use or tort, shall be limited to the OTHER Fax #: City: Attn: Phone #: State: Company: Address: ACID/BASE PRESERV or loss of profits ICE COOL CHECKED BY: BILL TO (Initials) OTHER 9 within 30 days after compl Zip: DATE 20 SAMPLING ed by client, its subsidiaries, paid by the client 2:34 All Results are emailed. Please provide Email address: Thermometer ID #113 Correction Factor None **Turnaround Time:** REMARKS: Verbal Result: TIME etion of the applicable 107 108 Ext tPH □ Yes Standard Rush BTEX I No ANALYSIS REQUEST 90 Add'l Phone #: Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Vet Ves Nc No Corrected Temp. °C

Received by OCD: 6/4/2021 9:34:35 AM

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Received by OCD: 6/4/2021 9:34:35 AM



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 accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2Haloacetic Acids (HAA-5)Method EPA 524.2Total Trihalomethanes (TTHM) MethodEPA 524.4Regulated VOCs (V1, V2, V3) Accreditationapplies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original

chain-of-custody. If you have any questions concerning this report, please feel free to contact me. Sincerely,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager

Fax To: (575) 393-2432

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

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

Sampling Date:

01/26/2021

 Received: Reported: Project Name:
 01/26/2021 01/28/2021GERONIMO #28
 Sampling Type: Sampling Condition: Sample Received

 By:
 Tamara OldakerCool & IntactSoil
 Sampling Type: Sampling Condition: Sample Received

Project Number:	NONE GI	VEN							
Project Location:	NONE GI	VEN							
Sample ID: W 15 (H2101	90-01)								
BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 98.5 % 73.3-129

Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Bla	BS nk	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	01/27/2021	ND	400	100	400	0.00	
TPH 8015M	mg	g/kg Analyzed By: MS		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Bla	nk 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 DI	RO >C28-C36	<10.0	10.0	01/27/2021	ND			
Surrogate: 1-Chlorooctane	85.7	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	88.0	% 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

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of Cardinal 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 iLaboratories. s 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

Celey D. Keene, Lab Director/Quality

Manager

Celley D. Keene

Page 2 of 22 Fax To: (575) 393-2432 Sampling Date: 01/26/2021 Sampling Type: Soil Received: 01/26/2021 Sampling Condition: Cool & Intact Reported: Sample Received By: Tamara Oldaker 01/28/2021 Project Name: GERONIMO #28 Project Number: NONE GIVEN Project Location: NONE GIVEN Sample ID: W 16 (H210190-02) BTEX 8021B mg/kg Analyzed By: MS Analyte Reporting Limit Method Blank BS % Recovery True Value QC RPD Qualifier Result Analyzed 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 0.150 ND 5.50 91.7 6.00 8.98 Total Xylenes* <0.150 01/27/2021 **Total BTEX** < 0.300 0.300 01/27/2021 ND

Surrogate: 4-Bromofluorobenzene (PID 97.8 % 73.3-129

mg	/kg	Analyze	d By: GM					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
208	16.0	01/27/2021	ND	400	100	400	0.00	
mg	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	01/27/2021	ND	196	98.0	200	9.43	
	Result 208 mg, Result	208 16.0 mg/kg Reporting Limit Result	Result Reporting Limit Analyzed 208 16.0 01/27/2021 mg/kg Analyze Reporting Limit Result Analyzed	Result Reporting Limit Analyzed Method Blank 208 16.0 01/27/2021 ND mg/kg Analyzed By: MS	Result Reporting Limit BS 208 16.0 01/27/2021 ND 400 mg/kg Analyzed By: MS	Result Reporting Limit BS % Recovery Analyzed Method Blank BS % Recovery 208 16.0 01/27/2021 ND 400 100 mg/kg Analyzed By: MS Method Blank S % Recovery	Result Reporting Limit BS % Recovery True Value QC Analyzed Method Blank BS % Recovery True Value QC 208 16.0 01/27/2021 ND 400 100 400 mg/kg Analyzed By: MS Method Blank BS % Recovery True Value QC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 208 16.0 01/27/2021 ND 400 100 400 0.00 mg/kg Analyzed By: MS Method Blank BS % Recovery True Value QC RPD Reporting Limit Result Reporting Limit Analyzed BS % Recovery True Value QC RPD

Surrogate: 1-Chlorooctane	84.4 %	44.3-144
Surrogate: 1-Chlorooctadecane	88.1 %	42.2-156

Fax To: (575) 393-2432
		Sampling Date:	01/26/2021
Received:	01/26/2021	Sampling Type:	Soil
Reported:	01/28/2021	Sampling Condition:	Cool & Intact
Project Name:	GERONIMO #28	Sample Received By:	Tamara Oldaker
Project Number:	NONE GIVEN		
Project Location:	NONE GIVEN		

Sample ID: W 17 (H210190-03)

BTEX 8021B	mg/kg		Analyze	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					
IUIdI DI EA	< 0.300	0.300	01/2//2021	ND					

Surrogate: 4-Bromofluorobenzene (PID 98.4 % 73.3-129

Chloride, SM4500CI-B	mg/ł	g	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blan	BS Ik	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	01/27/2021	ND	400	100	400	0.00	
TPH 8015M	mg/k	cg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blar	ık 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 0	1/27/2021	ND			
Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane	94.9 % 99.0 %								

Fax To: (575) 393-2432

		Sampling Date:	01/26/2021
		Sampling Type:	Soil
Received:	01/26/2021	Sampling Condition:	Cool & Intact
Reported:	01/28/2021	Sample Received By:	Tamara Oldaker
Project Name:	GERONIMO #28		
Project Number:	NONE GIVEN		
Project Location:	NONE GIVEN		

Sample ID: W 18 (H210190-04)

BTEX 8021B	mg.	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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					
IULAIDIEA	< 0.300	0.300	01/2//2021	ND					

Surrogate: 4-Bromofluorobenzene (PID 99.5 % 73.3-¹²⁹

Chloride, SM4500CI-B	mg/	kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blan	k BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	01/27/2021	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blan	k 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 DR	O >C28-C36	<10.0	10.0 0	1/27/2021	ND			
Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane	93.5 9 97.6 9								

Project Number:	NONE GIVEN
Project Location:	NONE GIVEN
Sample ID: B 69 (H210190-05))
BTEX 8021B	mg/kg

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Benzene* Toluene* <0.050 <0.050 0.050 0.050 01/27/2021 01/27/2021 ND ND 2.02 1.94 101 97.2 2.00 2.00 6.65 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		
Toluene* <0.050	Analyte	D Qualifier
Ethylbenzene* <0.050		
Total Xylenes* <0.150 0.150 01/27/2021 ND 5.50 91.7 6.00 8.98	Juene	7
	-	
	-	3
Total BTEX <0.300 0.300 01/27/2021 ND	otal BIEX	

Analyzed By: MS

Surrogate: 4-Bromofluorobenzene (PID 99.4 % 73.3-129

Chloride, SM4500CI-B	mg/	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	

Surrogate: 1-Chlorooctane	84.6	% 44.3-1	44						
Surrogate: 1-Chlorooctadecane	87.1	% 42.2-1	56						
Project Number:	NONE G	IVEN							
Project Location:	NONE G	IVEN							
Sample ID: B 70 (H210190)-06)								
BTEX 8021B	mg	/kg	Analyz	ed 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	
	< 0.300	0.300	01/27/2021	ND					

10.0

01/27/2021

ND

<10.0

Surrogate: 4-Bromofluorobenzene (PID 100 % 73.3-129

EXT DRO >C28-C36

Chloride, SM4500CI-B	mga	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte		Reporting Limit	Amelument	Mothod Plank	BS	% Recovery	True Value QC	RPD	Qualifier

Analyte Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Result

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 1	0.0 01/27/	2021	ND			
Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane Project Number: Project Location:	87.3 90.8 NONE G NONE G	% 42.2-15 IVEN							
Sample ID: B 71 (H210190-07 BTEX 8021B	') mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIL	99.8	% 73.3-	129						
Chloride, SM4500CI-B	mg	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

GRO C6-C10*	<10.0	10.0	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 0	1/27/2021	ND			
Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane	89.0 % 92.5 %	44.3-14							
surrogale: 1-Chioroociaaecane	92.5 %	42.2-130	U						

Fax To: (575) 393-2432

		Sampling Date:	01/26/2021
Received:	01/26/2021	Sampling Type:Sampling Condition:	SoilCool & Intact
Reported:	01/28/2021	Sample Received By:	Tamara Oldaker
Project Name:	GERONIMO #28		
Project Number:	NONE GIVEN		
Project Location:	NONE GIVEN		

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	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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 Surrogate: 1-Chlorooctadecane	89.3 % 93.2 %	44.3-144 42.2-156		

Fax To: (575) 393-2432

Received: Reported: Project Name: Project Number: Project Location: Sample ID: B 73 (H210190	rted: 01/28/2021 ct Name: GERONIMO #28 ct Number: NONE GIVEN ct Location: NONE GIVEN			Sa Sa	Sampling Date: Sampling Type: Sampling Condition: Sample Received By:		01/26/2021 Soil Cool & Intact Tamara Oldaker		
BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Rep orting 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	e (PID 99.8 %	% 73.3-12	9						

Chloride, SM4500CI-B	mg.	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/k	mg/kg		d 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 Surrogate: 1-Chlorooctadecane	90.8 % 94.6 %								
		Fax	(To: (575)	393-2432					
Received:	01/26/202	21		San	npling Da npling Ty npling Co	pe:	01/26/2 Soil Cool &		
Reported:	01/28/202	01		Sar	nple Rec	eived By:	Tamara	Oldaker	
Project Name: Project Number: Project Location:	GERONIN NONE GIV NONE GIV	IO #28 /EN		Ju			Tamara		
Project Name: Project Number: Project Location: ample ID: B 74 (H210190	GERONIN NONE GIV NONE GIV	io #28 /en /en	Analyze	d By: MS			Tamata		
Project Name: Project Number: Project Location: Sample ID: B 74 (H210190	GERONIN NONE GIV NONE GIV - 10)	io #28 /en /en	Analyze Analyzed		BS	% Recovery	True Value QC	RPD	Qualifier
Project Name: Project Number: Project Location: ample ID: B 74 (H210190 TEX 8021B Analyte	GERONIM NONE GIV NONE GIV -10) mg/k	IO #28 /EN /EN		d By: MS					Qualifier
Project Name: Project Number: Project Location: Sample ID: B 74 (H210190 STEX 8021B	GERONIM NONE GIV -10) mg/k Result	IO #28 /EN /EN sg Reporting Limit	Analyzed	d By: MS Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Project Name: Project Number: Project Location: Sample ID: B 74 (H210190 ITEX 8021B Analyte	GERONIM NONE GIV -10) Result <0.050	IO #28 /EN /EN Reporting Limit 0.050	Analyzed	d By: MS Method Blank ND	BS 2.02	% Recovery	True Value QC 2.00	RPD 6.65	Qualifier
Project Name: Project Number: Project Location: Sample ID: B 74 (H210190 ITEX 8021B Analyte	GERONIM NONE GIV -10) Result <0.050 <0.050	IO #28 /EN /EN Reporting Limit 0.050 0.050	Analyzed 01/27/2021 01/27/2021	d By: MS Method Blank ND ND	BS 2.02 1.94	% Recovery 101 97.2	True Value QC 2.00 2.00	RPD 6.65 7.49	Qualifier

Chloride, SM4500CI-B	mg/k	¢g	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value Q	C RPD	Qualifier
Chloride	3120	16.0	01/27/2021	ND	400	100	400	0.00	
TPH 8015M	mg/k	٢g	Analyze	d By: MS					
Analyte	Reporting Li Analyzed		ethod Blank	BS %	Recovery	True Val	ue QC	RPD Quali	fier Result
GRO C6-C10*	<10.0	10.0	01/27/2021	ND	196	98.0	200	9.43	

DRO >C10-C28*					212	106		5.08	
XT DRO >C28-C36	<10.0	10.0	01/27/2021	ND					
urrogate: 1-Chlorooctane urrogate: 1-Chlorooctadecane	87.5 % 91.1 %								
	,,		-						
		Fax	(To: (575)	393-2432					
				Sar	npling Da	ite:	01/26/2	2021	
				Sar	npling Ty	pe:	Soil		
Received:	01/26/20	21		Sar	npling Co	ondition:	Cool &	Intact	
Reported:	01/28/20	21		Sar	nple Rec	eived By:	Tamara	Oldaker	
Project Name:	GERONIN	10 #28							
Project Number:	NONE GI	VEN							
Project Location:	NONE GI	VEN							
ample ID: B 75 (H210190-			A	1.5. 140					
Analyte	mg/I Result	<g< b=""> Reporting Limit</g<>	Analyzed	d By: MS 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	

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Surrogate: 4-Bromofluorobenzene (PID 99.5 % 73.3-129

Chloride, SM4500CI-B		mg/ł	٢g	Analyze	d 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/ł	٢g	Analyze	d By: MS					
Analyte		Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*		Result		Analyzeu		196	98.0		9.43	
DRO >C10-C28*				01/27/2021	ND	212	106	200	5.08	
EXT DRO >C28-C36		<10.0	10.0	01/27/2021	ND					
Surrogate: 1-Chloroocta Surrogate: 1-Chloroocta		86.3 % 89.9 % Fax								
Received: Reported: Project Name: Project Number Project Location Sample ID: B 76 (H	n:NONE GIVEN		(575) 393-243	2 Sampling Da Sampling Ty				g Condition: Received By:	Soil Cool	6/2021 & Intact ara Oldaker
BTEX 8021B		mg/I	٨g	Analyze	d 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 9	% 73.3-1	129						
Chloride, SM4500Cl-B	mg/l	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	1410	16.0	01/27/2021	ND	400	100	400	0.00	
TPH 8015M	mg/I	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*			,		196	98.0		9.43	
DRO >C10-C28*			01/27/2021	ND	212	106	200	5.08	
EXT DRO >C28-C36	<10.0	10.0	01/27/2021	ND					
Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane	78.9 % 82.6 %								
		Fax	(To: (575)) 393-2432					
				Sar	npling Da	ate:	01/26/2	2021	
				Sar	npling Ty	/pe:	Soil		

BTE	(8021B	mg/kg	Analyzed By: MS		
San	nple ID: B 77 (H210190-13	3)			
	Project Location:	NONE GIVEN			
	Project Number:	NONE GIVEN			
	Project Name:	GERONIMO #28			
	Reported:	01/28/2021		Sample Received By:	Tamara Oldaker
	Received:	01/26/2021		Sampling Condition:	Cool & Intact

DIEX 002 ID	nig/	ĸġ	Allaryze	u by. 1015					
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-} ¹²	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1730	16.0	01/27/2021	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					

			Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*			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 Surrogate: 1-Chlorooctadecane	82.7 % 85.7 %								
		Fax	To: (575)) 393-2432					
					npling Da npling Ty		01/26/2 Soil	2021	
Received:	01/26/202	21			npling Co		Cool &	Intact	
Reported: Project Name: Project Number: Project Location: Sample ID: B 78 (H210190-14)	01/28/20: GERONIM NONE GIV NONE GIV	IO #28 /EN		Sar	nple Rec	eived By:	Tamara	Oldaker	
3TEX 8021B	mg/k	g	Analyze	d 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 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/k	g	Analyze	d By: GM					

			Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*			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					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	1840	16.0	01/27/2021	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Surrogate: 1-Chlorooctane	97.4	% 44.3-14							
Surrogate: 1-Chlorooctadecane	101 s				mpling D vpe:Samp		01/26 n:Sample Receiv		
Received: 01/26/2021 Tamara OldakerSoilCo Project Name: Project Number:	01/28/2021G ool & Intact NONE G	Fa: ERONIMO #28 Reportec IVEN	(To: (575	Sai					
Received: 01/26/2021 Tamara OldakerSoilCo Project Name: Project Number: Project Location:	01/28/2021G ool & Intact NONE G NONE G	Fa: ERONIMO #28 Reportec IVEN	(To: (575	Sai					
Received: 01/26/2021 Tamara OldakerSoilCo Project Name: Project Number: Project Location: Sample ID: B 79 (H210190)	01/28/2021G ool & Intact NONE G NONE G	Fa: ERONIMO #28 Reportec IVEN IVEN	< To: (575	Sai					
Received: 01/26/2021 Tamara OldakerSoilCo Project Name: Project Number: Project Location: Sample ID: B 79 (H210190)	01/28/2021G ool & Intact NONE G NONE G - 15)	Fa: ERONIMO #28 Reportec IVEN IVEN	< To: (575	Sar Sampling Ty					Qualifier
Received: 01/26/2021 Tamara OldakerSoilCo Project Name: Project Number: Project Location: Sample ID: B 79 (H210190- BTEX 8021B Analyte	01/28/2021G ool & Intact NONE G NONE G - 15) mg/	Fa: ERONIMO #28 Reported IVEN IVEN	(To: (575	Sampling Ty Sampling Ty ed By: MS	/pe:Samp	bling Condition	n:Sample Receiv	ved By:	Qualifier
Received: 01/26/2021 Tamara OldakerSoilCo Project Name: Project Number: Project Location: Sample ID: B 79 (H210190- BTEX 8021B Analyte Benzene*	01/28/2021G ool & Intact NONE G NONE G -15) mg/ Result	Fa: ERONIMO #28 Reported IVEN IVEN /kg Reporting Limit	< To: (575	Sampling Ty Sampling Ty ed By: MS Method Blank	pe:Samp BS	bling Condition	n:Sample Receiv True Value QC	ved By:	Qualifier
Received: 01/26/2021 Tamara OldakerSoilCo Project Name: Project Number: Project Location: Sample ID: B 79 (H210190- STEX 8021B Analyte Benzene* Toluene*	01/28/2021G ool & Intact NONE G NONE G -15) mg/ Result <0.050	Fa: ERONIMO #28 Reported IVEN IVEN /kg Reporting Limit 0.050	CTO: (575	Sampling Ty sampling Ty ed By: MS Method Blank ND	pe:Samp BS 2.02	bling Condition	n:Sample Receiv True Value QC 2.00	red By: RPD 6.65	Qualifier
Received: 01/26/2021 Tamara OldakerSoilCo Project Name: Project Number: Project Location: Sample ID: B 79 (H210190) BTEX 8021B	01/28/2021G ool & Intact NONE G NONE G -15) mg/ Result <0.050 <0.050	Fa: ERONIMO #28 Reported IVEN IVEN /kg Reporting Limit 0.050 0.050	CTO: (575	Sampling Ty sampling Ty ed By: MS Method Blank ND ND	pe:Samp BS 2.02 1.94	% Recovery 101 97.2	n:Sample Receiv True Value QC 2.00 2.00	RPD 6.65 7.49	Qualifier

			Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*			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: 4-Bromofluorobenzene (PID	100 %	6 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyzee	d 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	Analyzee	d By: MS					
Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane	97.6 102								
		Fa	x To: (575	5) 393-2432	ampling E)ato.	01/26	/2021	
					ampling T		Soil	/2021	
Received:	01/26/2	021		Sa	ampling (Condition:	Cool 8	& Intact	
Reported:	01/28/2			Sa	ample Re	ceived By:	Tamai	ra Oldaker	
Project Name: Project Number: Project Location:	GERONI NONE G NONE G	IVEN							
Sample ID: B 80 (H210190-16))								
BTEX 8021B	mg			ed By: MS					
Analyte	Result	Rep orting 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 %	6 73.3-1	129						
Chloride, SM4500CI-B	mg/k	¢g	Analyze	d 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	
ТРН 8015М	mg/k	٢g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Received by OCD: 6/4/2021 9:34:35 AM

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					
urrogate: 1-Chlorooctane urrogate: 1-Chlorooctadecane	85.2 9 89.1 9								
		Fax	(To: (575)	393-2432					
					npling Da npling Ty		01/26/2 Soil	2021	
Received:	01/26/20	21			npling Co		Cool &	Intact	
Reported: Project Name: Project Number: Project Location: Sample ID: B 81 (H210190-	01/28/20 GERONIN NONE GI NONE GI	/IO #28 VEN		Sar	nple Reco	eived By:	Tamara	Oldaker	
BTEX 8021B	mg/	ka	Analyze	d 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 (1	PID 97.6 9	73.3	129						
Chloride, SM4500Cl-B	mg/	kg	Analyzee	d 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	
IPH 8015M	mg/	kg	Analyzee	d 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	
XT DRO >C28-C36	<10.0	10.0	01/27/2021	ND					
Surrogate: 1-Chlorooctane	84.2 9	% 44.3-14	14						

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		Fax	To: (575)) 393-2432 S	ampling Da	ate	01/26/2	2021	
				S	ampling Ty	vpe:	Soil		
Received: Reported: Project Name: Project Number: Project Location: Sample ID: B 82 (H210190	01/26/20 01/28/20 GERONIN NONE GI NONE GI	21 MO #28 VEN			ampling Co ample Rec		Cool & Tamara	Intact Oldaker	
3TEX 8021B	10) mg/	kg	Analyze	d By: MS					
Analyte	Result	Rep orting 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 %	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	s BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	01/27/2021	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank		% 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 Surrogate: 1-Chlorooctadecane	94.5 9 98.4 9								

Notes and Definitions

QM-07

The spike recovery was outside acceptance limits for the MS Analyte NOT DETECTED at or above the reporting limit

- and/or MSD. The batch was accepted based on acceptable LCS recovery. ND
- RPD
 Relative Percent Difference

 **
 Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500CI-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories
*=Ac
PLEASE NOTE: Liability and Damages. Cardina'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 whatsee

*=Accredited Analyte

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, regardiLaboratories of Cardinal ess 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

Celey D. Kune

_____Celey D. Keene, Lab Director/Quality Manager

Page 19 of 22

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

		ANALYSIS	IS REQUEST
Company Name: MOUCHUL	*		
Project Manager: Bruce Buller	7.0. *		
Address:	Company:		
2040	State: N X Zip: 8 290 Attn:		
	#: Address:		
	Project Owner: City:		
Project Name:	State: Zip:		
Project Location:	AV Phone #:		
0	Fax #:		
FOR LAB USE ONLY	MATRIX PRESERV.	SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: CD COOL OTHER :	m	
1 1001	1 1	OH: 8/1C	
2 1016		-	
J WIJ		1000	
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F. S		1:22 / //	
7900		1284 11	
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9 8-73	2	1000	
PLEASE NOTE: Liability and Damages. Cardinate liability and client's excl analyses. All claims including those for nogligence and any other crosses where we	and cleant's avolutative remetry for any cleant avoing whether beden is contract or fort, shall be limited to the drownt pulk by the cleant for the other cleant or the cleant for the other cleant or the approximate the second advocation of the approximate the approximate the cleant of the approximate the cleant of the approximate th	rount puid by the client for the days after completion of the applicable unred by client, its subsidiaries,	
	res hereunder by Cadinal, inspirated of whether such claims based upon any of the alcove stand trification of trification of the alcove stand trification of trification of the alcove stand trific	Phone Result: Ves No Add'I Phone #: Fax Result: Yes No Add'I Fax #: REMARKS: Sumplayed	护 养
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 八	ス く。 井川名 Sample Condition CHECKED BY: Cool Intact (Initials)	24	

Company Name: Poor	(575) 393-2326 FAX (575) 393-2476	6 P.O.	BILL TO		ANALYSIS REQ	REQUEST
Address:	State: 10,10, Zip: 88,24	Õ	Attn:			
O	Fax #:		Address:			
Project #:	Project Owner:	City:	Y:			
Project Name:		State:	ite: Zip:			
Project Location: Coc	remine as	Pho	Phone #:			
2	Duranta	Fax #:	(#:			
FOR LAB USE ONLY	Sample I.D.	IDGE	D/BASE: D	el X+TPH	STEK	
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18 81		C + 1	1126	3110 / /	1	
PLEASE NOTE: Liability and Damagos. Cardinat's liability a analyses. All claims including those for negligence and any service. In one event shall Cardinal be liable for incidental or	nd client's er other cause	exclusive remedy for any claim artising whether based in contract or fort, shall be limited to the amount paid by the client for the e whatsoever shall be deemed word unless made in writing and received by Cardinal within 30 days after completion of the appl hat damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, that damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	t, shall be limited to the amount paid by the client for word by Cardinal within 30 days after completion of the ruse, or loss of profits incurred by client, its subsidiant (use, or loss of profits incurred by client, its subsidiant (use, or loss of profits incurred by client, its subsidiant (use, or loss of profits incurred by client, its subsidiant (use, or loss of profits incurred by client, its subsidiant (use, or loss of profits incurred by client, its subsidiant (use, or loss of profits incurred by client, its subsidiant (use, or loss of profits incurred by client, its subsidiant (use, or loss of profits incurred by client, its subsidiant (use, or loss of profits incurred by client, its subsidiant (use, or loss of profits incurred by client, its subsidiant (use, or loss of profits incurred by client, its subsidiant (use, or loss of profits incurred by client, its subsidiant (use, or loss of profits incurred by client, its subsidiant (use, or loss of profits incurred by client, its subsidiant (use, or loss of profits incurred by client, its subsidiant (use, or loss of profits incurred by client, its subsidiant (use, or loss of profits incurred by client, its subsidiant (use, or loss of profits incurred by client, its subsidiant (use, or loss of profits))	unt paid by the client for the nys after completion of the applicable od by client, its subsidiaries,		
Relinquished By:	Time:	Received By:	Maked	Verbal Result: Verbal Result: Yes All Results are emailed.	□ Yes □ No Add'I Phone #: emailed. Please provide Email address:	
Relinguished By:	Date:	Received By:	that)	REMARKS:	-	ж. Х
Delivered By: (Circle One)	Observed Temp. °C	S. 8 Sample Condition		Turnsround Time'	Standard VI Bacteria (only	Bacteria (only) Sample Condition

Received by OCD: 6/4/2021 9:34:35 AM



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/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

		BRUCE BA	MARLAND BLVD.		
		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			Contraction and all	Turidia Oldaker

Sample ID: W 17 (H210382-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d 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, SM4500CI-B	mg	/kg	Analyze	d 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	

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Celleg L. Kreene

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 6/4/2021 9:34:35 AM



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 SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Keen

Celey D. Keene, Lab Director/Quality Manager

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101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished By: Relinquished By: analyses All claims service In no event shall Cardinal be liable for incidental or conservice PLEASE NOTE: Liability and Dar Delivered By: (Circle One) Project Location: Sampler Name: Project Name: Project #: Phone #: city: Kobbs Project Manager: Company Name: Address: Cose FOR LAB USE ONLY Lab I.D. es or succ 10382 ち iding those 510 (575) 393-2326 FAX (575) 393-2476 Jose Geron Bruck Bakes pares 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 Cardinal's liability and clients ex Sample I.D to # 28 ental damages, including without limitation, busin Date: Time: Project Owner: Fax #: State MM Zip: remedy for any Received By 00 Received By: (G)RAB OR (C)OMP # CONTAINERS Sample Condition Cool Intact Yes Yes No No No GROUNDWATER anno WASTEWATER MATRIX SOIL OIL SLUDGE loss of use, or loss of profits i OTHER State: City: P.O. #: Fax #: Attn: Phone #: Address: Company: ACID/BASE PRESERV. CHECKED BY: ICE / COOL (Initials) OTHER BILL TO Zip: DATE nourred by client, its subsidiaries, SAMPLING paid by the client for the Turnaround Time: REMARKS: All Results are emailed. Please provide Email address: 10:30 Verbal Result: TIME c1 5. Most Reshirs Rugh □ Yes Standard Rush ON D Add'l Phone #: ANALYSIS REQUEST Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes Nc No Corrected Temp. °C

Received by OCD: 6/4/2021 9:34:35 AM

Sampler - UPS - Bus - Other:

Corrected Temp. °C

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

Thermometer ID #113 Correction Factor None

Page 4 of 4



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/ga/lab_accred_certif.html.

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Method EPA 524.2	Total Trihalomethanes (TTHM)
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Accreditation applies to public drinking water matrices.

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

Sincerely,

Celeg D. Keens

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

		BRUCE BA	MARLAND BLVD.		
		Fax To:	(575) 393-2432		
Received: Reported: Project Name:	02/16/2021 02/17/2021 GERONIMO #28			Sampling Date: Sampling Type: Sampling Condition:	02/12/2021 Soil ** (See Notes)
Project Number: Project Location:	NONE GIVEN			Sample Received By:	Tamara Oldaker

Sample ID: W 17 (H210382-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d 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, SM4500CI-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	

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Celeg T. Freene

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
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***	Insufficient time to reach temperature.
4	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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Celey D.Kein

Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

PLEASE NOTE: Liability and Damages. Cardina's lability and client's exclusive remedy for any claim arrang whether based in contract or tot, shall be analyses. All claims including those for negligence and any other rause whatsoever shall be deemed waived unless made in writing and received by C ardinals or successors arising out of or reliable for mediantal dramages, metuding whother transite the metion transition. It is analyses of the performance of services hereunder by C ardinal, regardless of whether such claim is based upon Relinquished By: Relinquished By: Date: Received, BV: Relinquished By: Date: Received, BV: Relinquished By: Time: Delivered By: Observed Temp. °C Sample Condition Cool Sampler - UPS - Bus - Other: Corrected Temp. °C No. No. No. No.	P Balana	Company Name: Aperety
similed to the amount pace andnai within 30 days after ones of profits incrured by of any of the above stated re- any of the above stated re- ter	State Zip: Attn: Fax #: Project Owner: Company: Y 2 Y Attn: Y 2 Y State: Y 3 Y Y Y 4 Y Y Y 4 Y Y Y 5 Y Y Y 4 Y Y Y 5 Y Y Y 4 Y Y Y 5 Y Y	BILL TO
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Received by OCD: 6/4/2021 9:34:35 AM Form C-141 State of New Mexico

Oil Conservation Division

Remediation Plan Checklist: Each of the following items must be included in the plan.

Incident ID	NRM1932357560
District RP	
Facility ID	
Application ID	

Remediation Plan

Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. \checkmark Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. 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. Title: Environmental Tech SR. Printed Name: Larry Baker Signature: Larry Baker email: larry.baker@apachecorp.com Date: 6/4/2021 Telephone: 432-631-6982 **OCD Only** 9/8/2021 Robert Hamlet Received by: Date: Approved X Approved with Attached Conditions of Approval Denied Deferral Approved Robert Hamlet 9/8/2021 Date: Signature:

Page 5

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

Operator:	OGRID:
APACHE CORPORATION	873
303 Veterans Airpark Ln	Action Number:
Midland, TX 79705	30623
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created	Condition	Condition
Ву		Date
rhamlet	The Workplan/Remediation Plan is approved with the following conditions: Please make sure the edges/sidewalls and floor closure samples are delineated/excavated to meet closure criteria	9/8/2021
	standards for proven depth to water determination. If Sec W.73 Wall through Sec W.82 Wall samples are sidewall samples, please continue to delineate to 600 mg/kg for chlorides in the top 4	
	feet. If these are actually floor samples, relabel as floor samples to a depth of 4 feet. Variance for section Wall 13 is denied, use a hydrovac to safely delineate/excavate to 600 mg/kg for	
	chlorides.	