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	sion District RP
		Facility ID
		Application ID
addition, OCD acceptance and/or regulations.	of a C-141 report does not relieve the opera	to responsibility for compliance with any other federal, state, or local laws
Printed Name: B Signature: Bruce email: larry. ba	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>

Page 5 of 178

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:

This page intentionally left blank

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 DATE	DEPTH (feet bgs)	CHLORIDE mg/Kg	BTEX	TPH
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

•

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 QSE POD Locations Web Application



Star in B

State and





Google

G 2020 Google

Point_generic 3

Point generic 12

Point_generic 11

The Property

Point generic 10

Point_generic 9

Point_generic 8

Point_generic 4

Point_generic 7

Point generic 5 A how

Point_generic 6





























This page intentionally left blank



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:

		APACHE C BRUCE BA 2350 W. M HOBBS NI	Corp - Hobbs Ker Marland Blvd. 1, 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			The second s	

Sample ID: W 1 (H210116-01)

BIEX 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	01/19/2021	ND	2.08	104	2.00	3.33	
Toluene*		<0.050	0.050	01/19/2021	ND	2.10	105	2.00	3.91	
Ethylbenz	ene*	<0.050	0.050	01/19/2021	ND	2.06	103	2.00	4.07	
Total Xyle	nes*	<0.150	0.150	01/19/2021	ND	6.34	106	6.00	3.40	
Total BTE	x	<0.300	0.300	01/19/2021	ND					

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

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC		-				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	01/20/2021	ND	400	100	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS						-
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2021	ND	203	102	200	0.487	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	165	82.5	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					
Surrogate: 1-Chlorooctane	82.9	% 44.3-14	4						

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 whitebomes 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 incurred by client, the subsidiaries, affiliates or successors anting 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)

В	mg,	kg	Analyzed By: ms						_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	<0.050	0.050	01/19/2021	ND	2.08	104	2.00	3.33	
	<0.050	0.050	01/19/2021	ND	2.10	105	2.00	3.91	
ne*	<0.050	0.050	01/19/2021	ND	2.06	103	2.00	4.07	
es*	<0.150	0.150	01/19/2021	ND	6.34	106	6.00	3.40	
	<0,300	0.300	01/19/2021	ND					
	Analyte ne* es*	B mg/ Analyte Result <0.050	B mg/kg Analyte Result Reporting Limit <0.050	B mg/kg Analyze Analyte Result Reporting Limit Analyzed <0.050	B mg/kg Analyzed By: ms Analyte Result Reporting Limit Analyzed By: ms <0.050	B mg/kg Analyzed By: ms Analyte Result Reporting Limit Analyzed Method Blank BS <0.050	B mg/kg Analyzed By: ms Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	B mg/kg Analyzed By: ms Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	B mg/kg Analyzed By: ms Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

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	304	16.0	01/20/2021	ND	400	100	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2021	ND	203	102	200	0.487	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	165	82.5	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					
Surrogate: 1-Chlorooctane	59.5	% 44.3-14	4						
Surrogate 1-Chloropeladecane	50.0	0/ 12215	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Diamages. Candinal's liability and client's exclusive remedy for any claim anting, whether based in contract or fort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be table for indiantial or consequential damages, including those of profils incurred by client, its subsidiaries, affiliates or successors arising out of no related in the performance of the services hermander by Cardinal, regardless of whether such claim is based upon any of the above clated researce. Results relate only to be services identified above. This report shall not be reported except in full with written approved completion for any claims.

Celleg Zos

Celey D. Keene, Lab Director/Quality Manager



CARDINAL

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	and the second	

Sample ID: W 3 (H210116-03)

BIEX 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	01/19/2021	ND	2.08	104	2.00	3.33	
Toluene*		<0.050	0.050	01/19/2021	ND	2.10	105	2.00	3.91	
Ethylbenz	ene*	<0.050	0.050	01/19/2021	ND	2.06	103	2.00	4.07	
Total Xyle	nes*	<0.150	0.150	01/19/2021	ND	6.34	106	6.00	3.40	
Total BTE	x	<0.300	0.300	01/19/2021	ND					

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	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 9	6 44.3-14	4						
Surrogate: 1-Chlorooctadecane	74.69	6 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's lastility and client's exclusive remeay for any claim areing, whether based in contract or fort, shall be limited to the annount paid by client for enalyses. All claims, including these for negligence and any other coase whistoewire shall be deemed waived onless 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 demages, including these to incidents is subsidiaries, affiliates or successors amining out of or related to the performance of the services hereander by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the cardinal above. Tais report shall not be reproduced except in full with writien approval of Cardinal analysis.

Celleng L. Keine

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:	Jodí 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	
Ethylbenzen	e*	<0.050	0.050	01/20/2021	ND	2.06	103	2.00	4.07	
Total Xylene	S*	<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		Analyzed By: AC					_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/20/2021	ND	400	100	400	3.92	
TPH 8015M	mg/kg		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	6 44.3-14	4						
Surrogate: I-Chlorooctadecane	8189	42 7-15	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any down ensing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thinty (30) days after completion of the applicable service. In no event shall Cardinal be table for incidental or toresequential damages, including, without limitation, basiness interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated researcher. For each of the the services, results relate only to the samples leaving leaving. This report shall not be reprodued except in full with writen approval of Cardinal toria.

Celeg to Ke

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 5 (H210116-05)

BTEX 802	TEX 8021B	mg/kg		Analyzed By: ms						
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*		<0.050	0.050	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	
Ethylbenz	ene*	<0.050	0.050	01/20/2021	ND	2.06	103	2.00	4.07	
Total Xyle	nes*	<0.150	0.150	01/20/2021	ND	6,34	106	6.00	3.40	
Total BTE	x	<0.300	0.300	01/20/2021	ND					

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

Chloride, SM4500CI-B	mg/l	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					
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 %	6 44.3-14	4						
Surrogate: 1-Chlorooctadecane	79.7 9	42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and cleant's exclusive remedy for any clean ensing, whether based in contract or tort, shall be limited to the amount paid by cleant, for analyses. All claims, including those for negligence and any other case whatsoever shall be deemed waived unless made in writing and neeview by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be lable for incidental or consequential damages, including, without limitarin, business interruptions, loss of use, or loss of profits incurred by cleant, its subsidiaries, affiliates or successors aming out of or related to the performance of the services hereander by Cardinal, negariless of whether such clean is based in out on any of the above stated reasons or otherwise. Results relate cleants identified above. This report shall not be reproduced cocept in full with writer approval of Cardinal torial above.

Celeg 20

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: W 6 (H210116-06)

BTEX 802	TEX 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	
Ethylbenz	ene*	<0.050	0.050	01/20/2021	ND	2.06	103	2.00	4.07	
Total Xyle	enes*	<0.150	0.150	01/20/2021	ND	6.34	106	6.00	3.40	
Total BTE	X	<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	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 7-15	6						

Cardinal Laboratories

*=Accredited Analyte

PERSE NOTE: Liability and Damages. Cardinal's fability and client's exclusive remady for any claim aitaing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including these for mogiligence and any other cases whatsoemer shall be deemed waived unless made in writing and teadwed by Cardinal within thiny (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 claims, isabilities, affiliates or successors anising out of or related to the performance of the services. Herewinder by Cardinal, regardless of whether such claims is based incore attent reserved in the services interruption and of the services. Research with militance proval of Cardinal with writen approval of Cardinal with writen approval of Cardinal testions.

Celeg Z.K.

Celey D. Keene, Lab Director/Quality Manager



Page 40 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		

Sample ID: W 7 (H210116-07)

TEX 8021B	mg/kg		Analyzed By: ms						
Analyte	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	
ne*	<0.050	0.050	01/20/2021	ND	2.06	103	2.00	4.07	
es*	<0.150	0.150	01/20/2021	ND	6.34	106	6.00	3.40	
	<0.300	0.300	01/20/2021	ND					
	Analyte he* es*	Analyte Result <0.050 <0.050 ne* <0.050 es* <0.150 <0.300	s mg/kg Analyte Result Reporting Limit <0.050	s mg/kg Analyze Analyte Result Reporting Limit Analyzed <0.050	s mg/kg Analyzed By: ms Analyte Result Reporting Limit Analyzed Method Blank <0.050	s mg/kg Analyzed By: ms Analyte Result Reporting Limit Analyzed Method Blank BS <0.050	s mg/kg Analyzed By: ms Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	s mg/kg Analyzed By: ms Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

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	_			122	
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: I Chloroostadooma	826	02 177 15	~						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim analy, whisther based in contract or toxt, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistocever shall be idenned 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 lable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profile incidental entry of the absorbance, and with writer approach or services interruptions and the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated research or otherwise. Results relate only to the samples identified above. This report shall not be reprodued except in full with writer approval of Cardinal Lossance.

Celeg Theen

Celey D. Keene, Lab Director/Quality Manager



Page 41 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

Sample ID: W 8 (H210116-08)

TEX 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	2.08	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, 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

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any doim artsing, whether based in contract or tort, shall be limited to the amount paid by client for analyzes. All claims, including those for negligence and any other cause whatsever shall be demaid 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 incidential or consequential damages, moduling, without limitation, business interruptions, loss of use, or less of profits incurred by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidential or consequential damages, moduling, without limitation, business interruptions, loss of use, or less of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services. Results relate only to the samples identified above: This report shall not be reproduced cardinal invites approval of Cardinal characterise.

Celleg 23

Celey D. Keene, Lab Director/Quality Manager



Page 42 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	a dita di sana tati ang Sala	

Sample ID: W 9 (H210116-09)

BTEX 802	218	mg,	/kg	Analyzed By: ms				-		
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	e -	<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	
Ethylbenz	ene*	<0.050	0.050	01/20/2021	ND	2.06	103	2.00	4.07	
Total Xyle	enes*	<0.150	0.150	01/20/2021	ND	6.34	106	6.00	3.40	
Total BTE	X.	<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIL 105 % 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	128	16.0	01/20/2021	ND	400	100	400	3.92	
TPH 8015M	mg/kg		Analyze	d By: MS				1.1	
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	78.7 9	% 44.3-14	4	11					
Surrogate: 1-Chlorooctadecane	79.2 9	42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clent's exclusive remedy for any daim arising, whether based in contract or tart, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed walved 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, writhout limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiarites, affiliates or successors arising out of or related to the performance of the survices hereunder by Cardinal, negaritiess of whether such cleim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg 2

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	200 Berl (1997) A 1997	2020 100 100 100

Sample ID: W 10 (H210116-10)

3TEX 8021B		mg/kg		Analyzed By: ms					
nalyte	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	
9	<0.050	0.050	01/20/2021	ND	2.06	103	2.00	4.07	
0	<0.150	0.150	01/20/2021	ND	6.34	106	6.00	3.40	
	<0.300	0.300	01/20/2021	ND					
	nalyte	mg, nalyte Result <0.050 <0.050 <0.050 <0.150 <0.300	mg/kg nalyte Result Reporting Limit <0.050	mg/kg Analyze nalyte Result Reporting Limit Analyzed <0.050	mg/kg Analyzed By: ms nalyte Result Reporting Limit Analyzed Method Blank <0.050	mg/kg Analyzed By: ms nalyte Result Reporting Limit Analyzed Method Blank BS <0.050	mg/kg Analyzed By: ms nalyte Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	mg/kg Analyzed By: ms nalyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	mg/kg Analyzed By: ms nalyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

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

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/20/2021	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	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	79.2	% 44.3-14	4						

Surrogate: 1-Chlorooctadecane 80.4 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celeg Z.

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 late lies	

Sample ID: W 11 (H210116-11)

BTEX 802	18	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	
Ethylbenz	ene*	<0.050	0.050	01/20/2021	ND	2.06	103	2.00	4.07	
Total Xyle	nes*	<0.150	0,150	01/20/2021	ND	6.34	106	6.00	3.40	
Total BTE	x	<0.300	0.300	01/20/2021	ND					

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

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

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arking, whether based in contract or tort, stani be limited to the amount paid by client for analyses. All claims, including, those for negligence and any other cause whotscover shall be idented walved. Unless made in writing and recorked 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, bioaness interruptions, loss of profits incurred by client, its subsidiaries, affiliates or successors arking out of or related to the performance of the services hereunder by Cardinal, negaraliess of whether such claims based upon any of the above stated records of or other, ensuits related to the interruptions, loss of orolfs incurred by client into the reprodued lexcel in full with writen exproved of Cardinal bases.

Celleg 23

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 12 (H210116-12)

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					

Surrogate: 4-Bromofluorobenzene (PIE 99.1 % 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	144	16.0	01/20/2021	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS		1. A			
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

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Lability and Damages. Candinal's liability and client's exclusive remedy for any client negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thinty (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, lass of uses, or loss of profits incurred by client, its subsidiaries, affliates or successors arising cut of or related to the performance of the services. Results related to the service shall be form of the service barries interruptions, lass of uses, or loss of profits incurred by client, its subsidiaries, affliates or successors arising cut of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above static resons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced excent in full with writen approval of Cardinal barreteries.

Celez Z

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/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	2.11	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	kg	Analyze	d By: AC					

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	01/20/2021	ND	400	100	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2021	ND	203	102	200	0.487	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	165	82.5	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					
Surrogate: 1-Chlorooctane	80.8	% 44.3-14	4						

Surrogate: 1-Chlorooctadecane 81.6% 42.2-156

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinel's liability and client's exclusive remedy for any claim areing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, inducting those for negligence and any other cause whitsoever shall be deemed waived unless made in waiing and reached by cardinal within thirty (30) days after completion of the applicable services. In no event shall Cardinal be liable for indential or corresponded damops, including, without limitation, business interruptions, loss of use, or loss of profils incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise, Results relate only to the samples, iterruptions devest in full with written approval forcularity.

Celez Z.t

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 8021	В	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	
Ethylbenze	ene*	<0.050	0.050	01/20/2021	ND	2.04	102	2.00	0.666	
Total Xyle	nes*	<0.150	0.150	01/20/2021	ND	5.98	99.7	6.00	0.764	
Total BTE	¢	<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIL 99.7 % 73.3-129

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	01/20/2021	ND	400	100	400	3.92	
TPH 8015M	mg/kg		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	1				
Surrogate: 1-Chlorooctane	82.7	% 44.3-14	14						
Survogate: 1-Chlopportadecane	84 6	0% 42.2-15	16						

Cardinal Laboratories

*=Accredited Analyte

PLEASE WOTE: Liability and Demoges: Candinal's liability and client's exclusive remety for any claim arising, whether based in contract or turt, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and my other cause whatseever shall be deemed walved unless made in writing and received by Cantinal within thirty (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, 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 Cantinal, regardless of whether such claim is based upon any of the above jated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg Z. Ke

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/	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, SM4500Cl-B	mg/kg		Analyzed By: AC						_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/20/2021	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	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						

Surrogate: 1-Chlorooctadecane 71.7 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim amang, whether based in contract or tort, shall be limited to the amount paid by client for analysies. All claims, including these for negligence and any other cause whatsoever shall be deemed winned unless marke in writing and received by Cardinal within thirty (30) days after completion of the applicable service. This no event shall cardinal be liable for incidental or consequential damages, including interventions, loss of profits mounted by claims, including within thirty (30) days after completion of the applicable service. This no event shall cardinal be liable for incidental or consequential damages, including the applicable service. This no event shall cardinal be table for incidental or consequential damages, including within the applicable service without limitation, business interruptions, loss of profits mounted by claim, its autoidaness, affiliates or successors sixing out of or related to the performance of the services harounder by Cardinal, negatives of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the sample shared labove. This mount all the respond and and the respond addition approval of Cardinal Labove stated reasons or otherwise.

Celler L. Ke

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

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		
	01/18/2021 01/21/2021 GERONIMO #28 NONE GIVEN NONE GIVEN	01/18/2021Sampling Date:01/21/2021Sampling Type:GERONIMO #28Sampling Condition:NONE GIVENSample Received By:NONE GIVENSample Received By:

Sample ID: B 2 (H210116-16)

BTEX 802	18	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	
Ethylbenz	ene*	<0.050	0.050	01/20/2021	ND	2.04	102	2.00	0.666	
Total Xyle	enes*	<0.150	0.150	01/20/2021	ND	5.98	99.7	6.00	0,764	
Total BTE	x	<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	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	77.9	% 44.3-14	4						

Surrogate: 1-Chlorooctadecane 78.5 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's fability and client's exclusive remedy for any claim naming, whetler based in contract or tort, shall be limited in the amount paid by client for analyses. All claims, including those for negligence and any other cause whiceover shall be demed waived unless marke in writing and received by client, this absolute state recompletion of the applicable service. In no event shall Cardinal be leable for includental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profils incurved by client, its aubsolutes, and filiates or successors ansing out of or related to the performance or the services. Neveralled by client, its aubsolutes, and the reproduced consequential damages, including, without limitation, business interruptions, loss of use, or loss of profils incurved by client, its aubsolutes, or successors ansing out of or related to the performance or the services. Neveralled or cardinal, regardless of whether auch climits based under stated reasons or otherwise. Results relate only to the samples identified above. This incurves in the performance or the services in the diverse. This incurves indicated above. This incurves and with writem approval of Cardinal colories.

Celley Z. Kee

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 3 (H210116-17)

18	mg/	/kg	Analyze	d By: MS	_				
Analyte	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	
ene*	<0.050	0.050	01/20/2021	ND	2.04	102	2.00	0.666	
nes*	<0.150	0.150	01/20/2021	ND	5.98	99.7	6.00	0.764	
x	<0.300	0.300	01/20/2021	ND					
	Analyte ene* nes*	Analyte Result <0.050 <0.050 ane* <0.050 nes* <0.050 K <0.300	IB mg/kg Analyte Result Reporting Limit <0.050	IB mg/kg Analyze Analyte Result Reporting Limit Analyzed <0.050	IB mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank <0.050	ItB mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS <0.050	ItB mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	ItB mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	IB mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

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 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	77.1 9	42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and cleant's exclusive remedy for any daim attsing, whether based in contract or text, shall be limited to the amount paid by dient for analyses. All claims, including those for negligence and any other cause whatsoevers shall be deened waived unless made in writing and received by Cardinal within thiny (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidential or consequential damages, including, without limitation, business interruptions, loss of politis incurred by claim, its subsidiaries, affiliates or successors arising nut of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim's based upon any of the above stated researces.

Celez 2 3

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	Contraction of the state	

Sample ID: B 4 (H210116-18)

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	2.11	106	2.00	0.143	
Toluene*		<0.050	0.050	01/20/2021	ND	2.09	104	2.00	0.206	
Ethylbenz	ene*	<0.050	0.050	01/20/2021	ND	2.04	102	2.00	0.666	
Total Xyle	nes*	<0.150	0.150	01/20/2021	ND	5.98	99.7	6.00	0.764	
Total BTE	x	<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PIL 99.6 % 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					A
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2021	ND	203	102	200	0.487	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	165	82.5	200	4.52	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					
Surrogate: 1-Chlorooctane	82.1	% 44.3-14	4						
Surragate I-Chlorooctadecane	81.04	12 12215	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive numery for any claim artsing, whether based in contract or torit, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatboever shall be demed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable services. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profils incurred by client, its subsistances, and claim any other cause whatever and of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced count in with writter approval.

Celeg Z Kee

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 second sec

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					
Surrogate: 4-Bromofluorobenzene (PIL	99.7	% 73.3-12	9						

Chioride, SM4500CI-B	mg	/kg	Analyze	d 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

Cardinal Laboratories

*=Accredited Analyte

PEBASE NOTE: Linkliky and Damages. Cardinal's liability and client's exclusive remody for any claim arising, whether based in contract or tort, shall be limited to the amount people by client for analyses. All claims, including those for negligence and any other cause whatboever shall be deemed waived unless made in writing and received by Cardinal within thiny (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, whose the applicable services interruptions, loss of use, or less of profile incurred by client, is subsidiaries, affiliates or successors among out of or related to the performance of the services hereinder by Cardinal, regendless of whether such claim is based upon any of the attent stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal claims.

Celleg L. Keen

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)

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					
Total BTEX	<0.300	0.150	01/20/2021	ND	5.98	99.7	6.00	0.764	

Surrogate: 4-Bromofluorobenzene (PIE 99.2 % 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	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

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Uabliev and Damages. Cardinal's liability and chent's exclusive remedy for any claim antiving, whether based in contract or treft, shall be limited to the amount pard by client for analyses. All claims, including these for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be libble 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 atising out of or related to the performance of the services. Necentre by Cardinal, regardless of whether such thin is based unon hary of the show stated resonance.

Celleg Zon

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	and the second second second	

Sample ID: B 7 (H210116-21)

Chievide CMATCOCL P

BIEX SUZIB	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	100 5	% 73.3-12	9						

Cilloride, 3M4300CI-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: 1-Chlorooctane	97.1	% 44.3-14	4						

Surrogate: 1-Chlorooctadecane 93.9 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celen Li Kee

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	and a subsection of the	2.92.0.000000,

Sample ID: B 8 (H210116-22)

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	2.18	109	2.00	3.51	
Toluene*		<0.050	0.050	01/20/2021	ND	2.19	110	2.00	4.69	
Ethylbenze	ene*	<0.050	0.050	01/20/2021	ND	2.18	109	2.00	6.30	
Total Xyle	nes*	<0.150	0.150	01/20/2021	ND	6.36	106	6.00	6.43	
Total BTE	¢	<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	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

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive nomedy for any claim aniang, whether lassed in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cance whistopers shall be idented walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be table for incidental or consequential damages, including, whitever limited by baness interruptions, lass of use, or loss of profils incurred by client, its subsidiaries, offiliates or successory areaing out of or related to the performance of the sarvices hareander by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced in the writein approval of Cardinal charateria.

Celeg Zit

Celey D. Keene, Lab Director/Quality Manager



Page 56 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 set of the set of the	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/l	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			_		_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2021	ND	221	110	200	9.33	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	225	113	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					
Surrogate: 1-Chlorooctane	98.0.9	6 443-14	4						

Surrogate: 1-Chlorooctadecane 97.0 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey Z. Kein

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 10 (H210116-24)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/20/2021	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	99.5	% 73.3-12	9						

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	01/20/2021	ND	400	100	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS		-				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2021	ND	221	110	200	9.33	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	225	113	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					
Surrogate: 1-Chlorooctane	98.3	% 44.3-14	4						

Surrogate: 1-Chlorooctadecane 94.0 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and cleant's exclusive remeny tor any caim ansing, whether based in contract or tork, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed varied unless made in writing and rendered by Caritral within thirty (30) days after completion of the applicable service. In no event shall Cardinal be leafle for incidental or consequential damages, including those for incidental or consequential damages, including this services interruptions, bas of use, or less of profits incurred by Caritral within thirty (30) days after completion of the applicable service. In no event shall Cardinal be leafle for incidental or consequential damages, including this absolutes, interruptions, bas of use, or less of profits incurred by client, its subsidiaries, affiliates or successors arising cut of or related to the performance of the services hereunder by Caidinal, regardless of whether such client is absoluted accept in full with mitter approach of Cardinal Librarate's.

Celeg Z Ke

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)

BIEX 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)						
Chloride, SM4500Cl-B	mg/k	g	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Charles and the second s		(and second meaning	,	, include biarine	0.0	no recovery	The value Qc	KPD	Qualmer
Chloride	1380	16.0	01/20/2021	ND	400	100	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2021	ND	221	110	200	9.33	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	225	113	200	10.2	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					
Surrogate: 1-Chlorooctane	90.6	% 44.3-14	14						

Surrogate: 1-Chlorooctadecane 87.7% 42.2-156

Cardinal Laboratories

*=Accredited Analyte

PLEASE WOTE: Uability and Damages. Cardinal's lability and client's exclusive remedy for any claim artsing, whether lossed in contract or tort, shall be limited to the amount paid by client for analyses. All claims, induding those for negligence and any other cause whatsoever shall be idented 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 lable for incidential or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such client is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal (aboratories,

Celeg 23

Celey D. Keene, Lab Director/Quality Manager



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

Cardinal Laboratories

*=Accredited Analyte

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

Celley L. Kee

Celey D. Keene, Lab Director/Quality Manager

oratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



Page 29 of 30



CH/

DS

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Reinquisned By: AUSCALC Delivered By: (Circle One) Sampler - UPS - Bus - Other:	PLEASE NOTE: Liabley and Damages. Cardinal's liabley a analyses All claams including those for negligence and any service. In no event shall cardinal be liable for incodential or affiliates or successors ansing out of or related to the perform	2000 2000 2000 2000 2000 2000 2000 200	H210116	Lab I.D. Sampl	Sampler Name:	Project Name:	Phone #:	city: Heldos	Address:	Company Name: Housing	azez-ses (c/c)
Date: Time: Date: Date: Time: Cost Corrected Temp. °C Corrected Temp. °C	and client's exclusive remedy for any claim ansing whether base y other clause whatsoever shall be deemed wanked unless made r consciencental clamages including without limitation, business is mance of services hereunder by Cardinal, repardless of whether	<u> </u>	GROU WAST	B OR (C)OMP TAINERS NDWATER EWATER	mo als dr.		Fax #:	State: NMZip: ECOU(www.		FAX (313) 333-2410
Condition CHECKED BY: Intract Intract S P Yes	d in contract or text, shall be limited to the amount pil in writing and received by Castinni within 30 datys and terruptions, loss of use or loss of privitis insured by such claim is based upon any of the above stated	1		GE R : BASE [:] COOL R :	Phone #: Fax #: TRIX PRESERV. SAM	State: Zip:	Address:	Attn:	Company:	PO #	DII I TO
All Results are emailed. Please prov REMARKS: Turnaround Time: Standard Thermometer ID 497-11 Correction Factor 404-46	ad by the clean for the ter completion of the applicable rupent is subsdames, rupent as subsdames, Type/hall Result:	200 // //	3:224 (1) 1/ BT	ETPH EX	PLING					_	
vide Email address:	Add'l Phone #:										ANIAL VSIS 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

z



Page 64 of 178

Analytical Results For:

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

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

Sample ID: B 13 (H210127-01)

BIEX 802	18	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	
Ethylbenz	ene*	<0.050	0.050	01/21/2021	ND	2.07	103	2.00	0.759	
Total Xyle	nes*	<0.150	0.150	01/21/2021	ND	6.03	101	6.00	0.903	
Total BTE	x	<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		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	98.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	97.0	% 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether leased in contract or tort, shall be limited to the amount paid by client for analysiss. All claims, including these for negligence and any other cause whethere exhall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable services. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profils incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services herounder by Cardinal, regardless of whether such claim is based uppn any of the above stated researces. Results relate only to the samples joint data and on the report and proval of Cardinal with written approval of Cardinal with written approval of Cardinal controls.

Celleg Z. them

Celey D. Keene, Lab Director/Quality Manager



Page 65 of 178

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 14 (H210127-02)

BTEX 8021B	mg/	/kg	Analyze	d By: MS				-	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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, SM4500CI-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	01/21/2021	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	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	

ND

ND

243

122

200

0.519

01/20/2021

01/20/2021

Surrogate: 1-Chlorooctane	94.5 %	44.3-144	
Surrogate: 1-Chlorooctadecane	92.7 %	42.2-156	

<10.0

<10.0

10.0

10.0

Cardinal Laboratories

DRO >C10-C28*

EXT DRO >C28-C36

*=Accredited Analyte

PLEASE NOTE: Lability and Damages. Candinal's liability and client's exclusive remedy for any client arising, whether based in contract or tore, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatbomers shall be doesnot waived unless made in writing and received by Cardinal within thirty (39) 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 claims based upon any of the above stated reasons or otherwake. Results relate only to the samples identifies approval.

Celeg Dite

Celey D. Keene, Lab Director/Quality Manager



Page 66 of 178

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	Trade Libraria Station	

Sample ID: B 15 (H210127-03)

BTEX 8021B		mg/kg		Analyze	Analyzed By: ms					
Ani	alyte	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	3560	16.0	01/21/2021	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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						

Surrogate: 1-Chlorooctadecane 90.3 % 42,2-156

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Likebility and Damegas. Cardinal's liability and client's exclusive termedy for any claim artsing, whether based in contract or tort, shall be limited to the amount paid by client for evelyaes. All claims, including those for negligence and any other cause whistoever 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 whose its subsidiaries, alfiliates or successors erising cut of or related to the performance of the services thereunder by Cardinal, regardless of whether such claims issue cut on or related to the performance of the services thereunder by Cardinal, regardless of whether such claims based upon any of the above stated reasons or otherwse. Results relate only to the samples identified above. This recort shall only the report shall not be reprodued except in full with writer approval of Cardinal to the services. The results related to the services thereanders, including with or incidents or consequential canages, including the above stated reasons or otherwse. Results relate only to the samples identified above. This recort shall only the report shall not be reprodued except in full writ writer approved of Cardinal Like to the performance of the services. There are the services thereand the service stated reason or therwise. Results related only to the samples identified above. This recort shall not be reprodued except in full writ writer approved of Cardinal Like to the service state reason or the service in the service of the serv

Celeg Z. Ke

Celey D. Keene, Lab Director/Quality Manager



Page 67 of 178

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)

1EX 8021B	mg/kg		Analyze	Analyzed By: ms				_	
Analyte	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	
ene*	<0.050	0.050	01/20/2021	ND	2.08	104	2.00	3.49	
nes*	<0.150	0.150	01/20/2021	ND	6.38	106	6.00	3.09	
(<0.300	0.300	01/20/2021	ND					
	Analyte ene* hes*	Analyte Result <0.050 <0.050 ene* <0.050 ene* <0.050 (<0.050 <0.050	Analyte Result Reporting Limit <0.050	Analyte Result Reporting Limit Analyzed Analyte Result Reporting Limit Analyzed <0.050	Analyte Result Reporting Limit Analyzed Method Blank <0.050	Analyte Result Reporting Limit Analyzed Method Blank BS <0.050	Analyzet Mg/kg Analyzet By: ms Analyzet Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	Analyzet Marky Analyzed By: ms Analyzet Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Analyte Result Reporting Limit Analyzed BS % Recovery True Value QC RPD <0.050

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	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 5	Va 44.3-14	4						
Surrogate: 1-Chlorooctadecane	93.5	42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Usibility and Damages. Cardinal's liability and clients: exclusive remedy for any claim artsing, whether based in contract or tort, shall be finited to the amount paid by client for analyzes. All claims, including those for negligence and any other cause whatcomes shall be demed walved unless marke in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidential or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiantes, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the solve stated reasons or otherwise, Results relate only to the amples identified above. This report shall not be reproduing taxonal exception of a first interruption of the solve stated reasonshoremice.

Cellery Zather

Celey D. Keene, Lab Director/Quality Manager



NONE GIVEN

Page 68 of 178

Analytical Results For:

APACHE C	CORP - HOBBS	
BRUCE BA	AKER	
2350 W. N	MARLAND BLVD.	
HOBBS N	м, 88240	
Fax To:	(575) 393-2432	
	Sampling Date:	01/19/2021
	Sampling Type:	Soil
28	Sampling Condition:	Cool & Intact
	Sample Received By:	Tamara Oldaker
	APACHE C BRUCE BA 2350 W. I HOBBS NI Fax To:	APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432 Sampling Date: Sampling Type: Sampling Condition: Sample Received By:

Sample ID: B 17 (H210127-05)

Project Location:

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	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	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	01/21/2021	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	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	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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Ken

Celey D. Keene, Lab Director/Quality Manager



Page 69 of 178

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)

18	mg/kg		Analyze	Analyzed By: ms					
Analyte	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	
ene*	<0.050	0.050	01/20/2021	ND	2.08	104	2.00	3.49	
nes*	<0.150	0.150	01/20/2021	ND	6.38	106	6.00	3,09	
х	<0.300	0.300	01/20/2021	ND					
	Analyte ene* mes* X	1B mg/ Analyte Result <0.050	1B mg/kg Analyte Result Reporting Limit <0.050	1B mg/kg Analyze Analyte Result Reporting Limit Analyzed <0.050	1B mg/kg Analyzed By: ms Analyte Result Reporting Limit Analyzed Method Blank. <0.050	1B mg/kg Analyzed By: ms Analyze Result Reporting Limit Analyzed Method Blank. BS <0.050	1B mg/kg Analyzed By: ms Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	1B mg/kg Analyzed By: ms Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	1B mg/kg Analyzed By: ms Analyte Result Reporting Limit Analyzed Method Blank. BS % Recovery True Value QC RPD <0.050

Surrogate: 4-Bromofluorobenzene (PIL 105 % 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	2960	16.0	01/21/2021	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyze	d By: MS	- 24				_
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 9	% 44.3-14	4						
Surrogate: I-Chlorooctadecane	107 9	% 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Danages. Candinal's liability and client's exclusive nemady for any chain artsing, whether based in contract or tort, shall be limited to the amount plaid by dient. For analyses. All chaims, including those for negligence and any other cause whatboever shall be demed waived unless mode 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 uses, or loss of profits incurred by client, its subsidiaries, affiliates or successors ensing out of or related to the performance of the services hereander by Cardinal, regardless of whether such claim is based upon any of the above stated massafe.

Celeg The

Celey D. Keene, Lab Director/Quality Manager



Page 70 of 178

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:

BTEX 8021	LB	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	
Ethylbenze	ene*	<0.050	0.050	01/20/2021	ND	2.08	104	2.00	3.49	
Total Xyle	nes*	<0.150	0.150	01/20/2021	ND	6.38	106	6.00	3.09	
Total BTE	K	<0.300	0.300	01/20/2021	ND					

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

NONE GIVEN

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2360	16.0	01/21/2021	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS					-	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/20/2021	ND	228	114	200	2.21	
DRO >C10-C28*	<10.0	10.0	01/20/2021	ND	243	122	200	0.519	
EXT DRO >C28-C36	<10.0	10.0	01/20/2021	ND					
Surrogate: 1-Chlorooctane	86.1	% 44.3-14	4						
and the second second second		and the states of the							

Surrogate: 1-Chlorooctadecane 81.4 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including trave for megligence and any other cause wholsoever shall be deemed warved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be lable for incidental or correspondent demages, including, without limitation, business interruptions, loss of use, or kass of profils incurred by Cardinal within the report shall be reproduced coccept in full with writer approval. Of or related to the performance of the services hereunde by Cardinal, regardless of whether such chain is based upon any of the above stated reasons or otherwise, Results relate only to the samples identified above. This report shall not be reported coccept in full with writer approval of Cardinal claims.

Cellery 23

Celey D. Keene, Lab Director/Quality Manager



Page 71 of 178

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	
Ethylbenz	ene*	<0.050	0.050	01/20/2021	ND	2.08	104	2.00	3.49	
Total Xyle	nes*	<0.150	0.150	01/20/2021	ND	6.38	106	6,00	3.09	
Total BTE	x	<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	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						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Domages. Candinal's fability 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 whetsomer shall be iterated walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages. Including, without limitation, business interruptions, lines of use, or loss of profils incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This import shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celleg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Page 72 of 178

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	Control of Control of States and	

Sample ID: B 21 (H210127-09)

BTEX 8021B		mg/kg		Analyzed By: ms						
,	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*		<0.050	0.050	01/20/2021	ND	2.09	105	2.00	2.24	
Toluene*		<0.050	0.050	01/20/2021	ND	2.11	106	2.00	3.03	
Ethylbenzene	*	<0.050	0.050	01/20/2021	ND	2.08	104	2.00	3.49	
Total Xylenes	*	<0,150	0.150	01/20/2021	ND	6.38	106	6.00	3.09	
Total BTEX		<0.300	0.300	01/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (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						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clent's exclusive remedy for any claim ansing, whether based in contract or fort, shall be limited to the annount paid by cient for analyses. All claims, indusing those for negligence and any other cause whatscover dial be deemed waived unless made in writing and received by Cardinal within thiny (30) days after completion of the applicable service. In no event shall cardinal be liable for indicental or consequential damages, indusing, without limitation, business interruptions, loss of use, or loss of profils incurred by Cardinal active, affiliates or successors ansing out of or related to the performance of the services herminder by Cardinal, regardless of whether such claims based upon any of the above stated resonance. Results relate only to the samples identified above. This report shall not be reported except in full with written approval of Cardinal base rates and active and the minimum of the services in terms and the services in the sample damages.

Celey Z. Ke

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

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	a startfor i farmi ve 36	
	01/19/2021 01/21/2021 GERONIMO #28 NONE GIVEN NONE GIVEN	01/19/2021Sampling Date:01/21/2021Sampling Type:GERONIMO #28Sampling Condition:NONE GIVENSample Received By:NONE GIVENSample Received By:

Sample ID: B 22 (H210127-10)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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/	ka	Analuga	d Bur AC					

	ing/	ng	Analyze	u 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 9	42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

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

Celeg Ditre

Celey D. Keene, Lab Director/Quality Manager



Page 74 of 178

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		1000000000000

Sample ID: B 23 (H210127-11)

BTEX 8021B		mg,	/kg	Analyze	d By: ms					
Ana	alyte	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, SM4500Cl-B	mg/kg		Analyzed By: AC		_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	01/21/2021	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS	10				
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

Cardinal Laboratories

*=Accredited Analyte

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

Celeg Keen

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 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

Sample ID: B 24 (H210127-12)

BIEX 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	
Ethylbenz	ene*	<0.050	0.050	01/20/2021	ND	2.08	104	2.00	3.49	
Total Xyle	nes*	<0.150	0.150	01/20/2021	ND	6.38	106	6.00	3.09	
Total BTE	x	<0.300	0,300	01/20/2021	ND					

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

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	01/21/2021	ND	416	104	400	3.77	
TPH 801.5M	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	11.0	10.0	01/21/2021	ND					
Surrogate: 1-Chlorooctane	97.8	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	90.7	42 2.15	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clean's exclusive remeasy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (10) days after completion of the applicable service. In no event shall Cardinal be liable for incidential or convequential 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 hermunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg 2 +



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					
Ethylbenzene* Total Xylenes* Total BTEX	<0.050 <0.150 <0.300	0.050 0.150 0.300	01/20/2021 01/20/2021 01/20/2021	ND ND ND	2.08 6.38	104 106	2.00 6.00	3.49 3.09	

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

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC		_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	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	01/21/2021	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

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, inclusing these far negligence and any other cause whisteever 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 flable for incidential or consequential damages, including, without initiation, bioinfess interruptions, loss of ports incurred by client, its subsidiaries, affiliates or successors arising out of in related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons in otherwise, Results relate only to the samples identified above. This report shall not be reprodued except in full with write approxed cardinal cardinal.

Celeg 2.1

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432 Received: 01/19/2021 Sampling Date: 01/19/2021 Reported: 01/21/2021 Sampling Type: Soil Project Name: **GERONIMO #28** Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Tamara Oldaker Project Location: NONE GIVEN

Sample ID: B 26 (H210127-14)

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	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	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	01/21/2021	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyze	d By: MS		_		and a	
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 9	44.3-14	4						
Surrogate: 1-Chlorooctadecane	93.79	42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Llability and flamisges. Cardinal's fability and dient's exclusive namedy for any claim artising, whether lassed in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including these for negligence and any other rause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thiny (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, less of use, or loss of profits incurred by client, its substalantes, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the athive stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celler Da





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

Analytical Results For:

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

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

Sample ID: B 27 (H210127-15)

(

1F

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	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					
Surrogate: 4-Bromofluorobenzene (PIL	104	% 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
Chloride	3400	16.0	01/21/2021	ND	416	104	400	3.77
FPH 8015M	mg	/kg	Analyze	d By: MS	_ 1		175	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD
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				



Cardinal Laboratories

*=Accredited Analyte

Qualifier

Qualifier

PLEASE NOTE: Liability and barrages Candinal's liability and dient's exclusive remedy far any claim arising, whether based in constant or tort, shall be limited to the amount paid by dient for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed weived 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 danages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subscliantes, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celley Z. Ke



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

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

Sample ID: B 28 (H210127-16)

BTEX 8021B		mg/kg		Analyzed By: ms					_	
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*		<0.050	0.050	01/20/2021	ND	2.09	105	2.00	2.24	
Toluene*		<0.050	0.050	01/20/2021	ND	2.11	106	2.00	3.03	
Ethylbenze	ne*	<0.050	0.050	01/20/2021	ND	2.08	104	2.00	3.49	
Total Xyler	nes*	<0.150	0.150	01/20/2021	ND	6,38	106	6.00	3.09	
Total BTEX	C .	<0.300	0.300	01/20/2021	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	6560	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	01/21/2021	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	42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

PEASE NOTE: Liability and Damages. Cardinet's liability and client's exclusive remedy for any claim artising, whether based in contract or fort, shall be limited to the amount paid by client far analyses. All claims, including those for negligence and any other cause whistopers shall be deemed waived unless made in writing and received by Cardinal within thiny (30) days after completion of the applicable service. In no event shell Cardinal be liable for incidental or consequential camages, including, without limitation, business interruptions, loss of use, or loss of profils incurred by client, its subsidiaries, affiliates or successors acting out of or related to the performance of the services homounds by Cardinal, negatives of whether such claim is based upon any of the abuve stated researce or otherwise. Results relate both to the samples interruptions.

Celeg & Kee



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	- 12 (3) (1) (1) (1) (2) (2) (3)	

Sample ID: B 29 (H210127-17)

	mg,	/kg	Analyze	d By: ms	_				
Analyte	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	
ne*	<0.050	0.050	01/20/2021	ND	2.08	104	2.00	3.49	
es*	<0.150	0.150	01/20/2021	ND	6.38	106	6.00	3.09	
	<0.300	0.300	01/20/2021	ND					
	Analyte ne* es*	Analyte Result <0.050 <0.050 ne* <0.050 es* <0.150 <0.300	Analyte Result Reporting Limit <0.050	S Ing/kg Analyze Analyte Result Reporting Limit Analyzed <0.050	Analyte Result Reporting Limit Analyzed Method Blank <0.050	Analyte Result Reporting Limit Analyzed Method Blank BS <0.050	Analyze Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	Analyze Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Analyte 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/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
entonide	1420	10.0	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	01/21/2021	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

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arking, whether based in contract or tart, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever 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 claims, including, those for incidental or consequential damages, including, which limits including which is including the subsidiaries, affiliates or successors arising out of a related to the performance of the services hereander by Cardinal, regardless of whether such claim is based upon any of the above steled reasons or otherwise. Results robust and/ to the service interruption of the services hereander by Cardinal, regardless of whether such

Celeg 2

Celey D. Keene, Lab Director/Quality Manager



		APACHE C BRUCE BA 2350 W. N HOBBS N	CORP - HOBBS IKER MARLAND BLVD. M. 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 a substance states of	(and a second

Sample ID: B 30 (H210127-18)

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	2.09	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 % 73.3-129

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC		_				_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	01/21/2021	ND	400	100	400	3.92	QM-07
трн 8015м	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	ate: 1-Chlorooctane 92.1 % 44.3-14		4						

Surrogate: 1-Chlorooctadecane 87.1 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Danueges. Candinal'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 whatsnews 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 durages, including, without limitation, business interruptions, less of use, or less 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 chim is based upon any of the above stated reasons or otherwise, Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Kee

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 31 (H210127-19)

BTEX 8021B		mg/kg		Analyzed By: ms		_				-
Ana	lyte	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		Analyzed By: MS			-			-
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2021	ND	233	117	200	1.52	
DRO >C10-C28*	<10.0	10.0	01/21/2021	ND	246	123	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	01/21/2021	ND					
Surrogate: 1-Chlorooctane	100	% 44.3-14	4						
and the second states of the second second									

Surrogate: 1-Chlorooctadecane 94.4 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim antiana, whether based in contract or tart, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be demed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall be demed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall changes, including those for negligence and including those for includents or oursequential damages, including those states updated the based or update to oursequential damages, including which is subsidiaries, affiliates or successors arising out of or related to the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise, Results relate only to be samples isentified above. This report and not be reproduced compt in full with writen expressed of cardinal toria.

Celeg 2.+



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 32 (H210127-20)

	mg/kg		Analyzed By: ms						
Analyte	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	
e*	<0.050	0.050	01/20/2021	ND	2.08	104	2.00	3.49	
S*	<0.150	0.150	01/20/2021	ND	6.38	105	6.00	3.09	
	<0.300	0.300	01/20/2021	ND					
	Analyte 9* 5*	Analyte Result <0.050 <0.050 e* <0.050 s* <0.050 s* <0.150 <0.300	mg/kg Analyte Result Reporting Limit <0.050	mg/kg Analyze Analyte Result Reporting Limit Analyzed <0.050	mg/kg Analyzed By: ms Analyte Result Reporting Limit Analyzed Method Blank <0.050	mg/kg Analyzed By: ms Analyte Result Reporting Limit Analyzed By: ms <0.050	mg/kg Analyzed By: ms Analyte Result Reporting Limit Analyzed By: ms <0.050	mg/kg Analyzed By: ms Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Mailyte 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	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 9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecome	0100	122.15	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remeay for any clemn ansing, whether based in contract or tark, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatboewe shall be detened weived infess made in writing and reserved by Cardinal within thinty (30) days after completion of the applicable service. In no event shall Cardinal be lable for incidental or consequential damages, including, whether based upon any of the above stated measures or otherways. Results relate only to the samples detailed above. This reports and not be reprodued except in full with writen approval of Cardinal and the above stated measures. Results relate only to the sample identified above. This reports all not be reprodued except in full with writen approval of Cardinal and the above stated measures. Results relate only to the sample identified above. This reports all not be reprodued except in full with writen approval of Cardinal and the above stated measures.

Colog Z Ke

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	and a second second second	

Sample ID: B 33 (H210127-21)

LB	mg/kg		Analyzed By: ms						
Analyte	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	
ane*	<0.050	0.050	01/20/2021	ND	2.08	104	2.00	3.49	
nes*	<0.150	0.150	01/20/2021	ND	6,38	106	6.00	3.09	
K	<0.300	0.300	01/20/2021	ND					
	Analyte Analyte ene* hes* K	LB mg, Analyte Result <0.050 <0.050 ene* <0.050 ene* <0.050 << <0.300	IB mg/kg Analyte Result Reporting Limit <0.050	LB mg/kg Analyze Analyte Result Reporting Limit Analyzed <0.050	LB mg/kg Analyzed By: ms Analyte Result Reporting Limit Analyzed Method Blank <0.050	IB mg/kg Analyzed By: ms Analyte Result Reporting Limit Analyzed Method Blank BS <0.050	IB mg/kg Analyzed By: ms Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	LB mg/kg Analyzed Bit Method Blank BS % Recovery True Value QC Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	IB mg/kg Analyzed By: ms Analyte 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		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6880	16.0	01/21/2021	ND	400	100	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS			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						
and the state of t		1							

Surrogate: 1-Chlorooctadecane 96.0 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

PLEASE MOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any cleim ansing, whether based in contract or tort, shell be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whichower shall be ideemed walved unless mode in writing and received by Cardinal within thiny (30) days after completion of the applicable service. In no event shall Cardinal be table for inclidental or consequential damages, including, without limitation, business interruptions, loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services. Necentred by Cardinal, regardless of whether such claims to be services arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims to be expediented except in hill with written approval or claimsterister.

Celling & Ken

Celey D. Keene, Lab Director/Quality Manager



Page 85 of 178

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 34 (H210127-22)

18	mg/kg		Analyzed By: ms						
Analyte	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	
ene*	<0.050	0.050	01/20/2021	ND	2.08	104	2.00	3.49	
enes*	<0.150	0.150	01/20/2021	ND	6.38	106	6.00	3.09	
x	<0.300	0.300	01/20/2021	ND					
	Analyte ene* mes* X	1B mg, Analyte Result <0.050	1B mg/kg Analyte Result Reporting Limit <0.050	1B mg/kg Analyze Analyte Result Reporting Limit Analyzed <0.050	1B mg/kg Analyzed By: ms Analyte Result Reporting Limit Analyzed Method Blank <0.050	1B mg/kg Analyzed By: ms Analyte Result Reporting Limit Analyzed By: ms 0.050 0.050 01/20/2021 ND 2.09 <0.050	1B mg/kg Analyzed By: ms Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	1B mg/kg Analyzed By: ms Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	1B mg/kg Analyzed B3: ms Analyte 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	oride, SM4500Cl-B mg/kg		Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10400	16.0	01/21/2021	ND	400	100	400	3.92	
TPH 8015M mg/kg		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 7-15	6						

Cardinal Laboratories

*=Accredited Analyte

PEEASE NOTE: Liability and Danzages. Cardinal's liability and client's exclusive remedy for any claim ansing, 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 whatcoever shall be deemed waived unless made in writing and received by Cardinal within thinty (30) days after completion of the applicable services. In no event shall Cardinal be liable for incidential or consequential danages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors among out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced to constraines, and of Cardinal Librarian.

Celeg Z

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)

8	mg,	/kg	Analyzed By: MS					_	
Analyte	Result	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	
ne*	<0.050	0.050	01/21/2021	ND	2.15	107	2.00	2.40	
es*	<0,150	0.150	01/21/2021	ND	6.26	104	6.00	2.35	
	<0.300	0.300	01/21/2021	ND					
	Analyte ne* es*	Analyte Result <0.050 <0.050 ne* <0.050 es* <0.150 <0.300	analyte Result Reporting Limit <0.050	a mg/kg Analyze Analyte Result Reporting Limit Analyzed <0.050	analyte Result Reporting Limit Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank <0.050	analyte Result Reporting Limit Analyzed By: MS Analyte Result Reporting Limit Analyzed By: MS <0.050	Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

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

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6660	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	99.1	% 44.3-14	4						

Surrogate: 1-Chlorooctadecane 96.1% 42.2-156

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Demaigles. Cardinal's liability and client's exclusive remedy for any claim ansarg, whether based in contract or tort, shall be limited to the applicable service. In no event shall charins, including those for negligence and any other cause whitsboeive shall be ideened waived unless made in writing and tecehold by Cardinal within hirty (30) days after completion of the applicable service. In no event shall charins, including those for negligence and including, without limitation, business interruptions, loss of use, or loss of profils incurred by client, its subsidiaries, affiliates or successars arising out of or related to the performance of the services hereunder by Cardinal, negariless of whether such client is based uson any of the above stated researces. In our days of the services interruption to the samples identifies arising out of or related to the performance of the services hereunder by Cardinal, negariless of whether such client is based uson any of the above stated researces. Results relate only to the samples identifies identifies the reprodued except in full with writen approval of Cardinal based.

Celleg D. Keen



Page 87 of 178

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 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	IOCI-B mg/kg		Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5060	16.0	01/21/2021	ND	400	100	400	3.92	
TPH 8015M	3015M 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						

Cardinal Laboratories

*=Accredited Analyte

PLEASE MOTE: Lability and Damages. Candinal's lability and client's exclusive remedy for any claim aming, whether based in contract or tort, shall be limited to the amount paid by client for analysts. All claims, including three for negligence and any other observice. In no event shall cardinal be lightly and client's exclusive remedy by Cardinal within thirty (30) days after completion of the applicable service. In no event shall cardinal be lightly and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall cardinal be lightly on of profils incurred by Cardinal within thirty (30) days after completion of the applicable service. In no event shall cardinal be lightly on or profils incurred by client, its subsidiaries, affiliates or successors aming out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples, individing above stated reasons or otherwise. Results relate only to the samples is hereinted in the performance of the services.

Celery Z. Ke

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)

BTEX 8021B		mg/	kg	Analyzed By: MS						
A	nalyte	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*	P	<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 (PIE 101 % 73.3-129

Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	01/21/2021	ND	400	100	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS		-				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/21/2021	ND	233	117	200	1.52	
DRO >C10-C28*	<10.0	10.0	01/21/2021	ND	246	123	200	3.07	
EXT DRO >C28-C36	<10.0	10.0	01/21/2021	ND					
Surrogate: 1-Chlorooctane	111 %	6 44.3-14	4						
Surrogate: 1-Chlorooctadecane	109 9	6 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

PEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any dam arising, whether based in contract or torf, shall be limited to the amount paid by client for analyses. All claims, including those for negligenou and any office cause whistoever whell be detends waived unless made in writing and reserved by Cardinal within thirty (30) days after completion of the applicable service. In po event shall Cardinal be lighte for incidental or consequential damages, including those to an egligenou and including, whisther bushes there are a shall be detend waived unless made in writing and reserved by Cardinal within thirty (30) days after completion of the applicable service. In po event shall Cardinal be lighte for incidental or consequential damages, including those to a statistic statistic services thermothers, loss of use, or has of profiles incurved by client, its subsidiates, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or meterious. Results related above, and other the services hereunder to consequential damages, industries approval. The report shall not be reported accept in full with writes approval cortant.

Celleg Z: 3

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cantinal's liability and client's exclusive remedy for any claim around, whether based in contract or tort, shall be limited to the annount paid by client for analyses. All dams, including those for negigence and any other cause whatevee shall be deemed waved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profils incurred by client, is subsidiaries, affiliates or successors analing out of or nelated to the performance of the services birelunder by Cardinal, regardless of whether such claim is based unon any of the above stated reasons or inhervise. Results relate only to the samples identified above. This report shall no be reproduced except in full with written approval of Cardinal Laboratories.

Celeg There

Celey D. Keene, Lab Director/Quality Manager

CARDINA

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

Relinquished By: Date: Date: U.G. Relinquished By: Date: Date: U.G. Date: Date: Date: South Time: U.G. Date: Date: Date: South Time: South Time: South Time: South Time: Date: Time: Delivered By: (Circle One) Observed Temp. °C Sampler - UPS - Bus - Other: Corrected Temp. °C	S IB 37 S I	Lab I.D. Sample I.D.	Project Location: Acressions 38 Sampler Name: Jew Courses Re. Je	Project #: Project Ow	Phone #: Fax #:	City: How	Adding Bringer Bruce Buler	Project Manager: Aprillion	101 East Marland, Hobbs, NM (575) 393-2326 FAX (575) 39
Cardinal regulations, invariant by callent, its subsidiation Received By: Verbal Res Received By: Verbal Res All Results All Results All Results Cool Intact Cool Intact No No No No	any claim ansing whether based in contract or fort, shall be limited to the amount paid by the islant for the normality whether based in contract or fort, shall be limited to the amount paid by the islant for the normality of the shart for the normality of the normality of the shart for the normality of	GROUNDWATER GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: PRESERV. SAMPLING TIME	State: Zip: Phone #: Fax #:	mer: City:	Address:	Company:	P.O. #:	BILL TO	88240 3-2476
 ** ult: □ Yes □ No Add'I Phone #: are emailed. Please provide Email address: are emailed. Please provide Email address: Time: Standard Bacteria (on Cool Intact D #113 Cool Intact D #113 Cool Intact D #113 	e e policable	CI DEV+ HPM BTET						ANALYSIS RE	



Page 91 of 178

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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 Secr 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 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 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

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

(Initials) C

Thermometer ID #113 Correction Factor None

Bacteria (only) Sample Condition Cool Intact Observed Temp. Ves Yes Nc No Corrected Temp.

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

PLEASE NOTE: Lubility and Damages. Gaudina's liability and client's exclusive analyzes. Al claims including those for negligence and any other cause whats service. In no event shall Cardinal to liab liable for incidential or consequential dam affiliates or successors arising out of or related to the performance of services to Relinquished By: Date: Sampler - UPS - Bus - Other: Relinquished By: Havoran 22 Bay 24 Bay 24 Bay 24 Bay Delivered By: (Circle One) Sampler Name: Project Location: Project Name: Phone #: Project #: City: Holdos Project Manager: Company Name: Apuch FOR LAB USE ONLY Lab I.D. Address: Cec nuscru B33 37 したったいうの STUCK LOCKERY BSS Sample I.D. 10 Serve Corrected Temp. °C Observed Temp. °C Time: 4/3 Time: Date: -Date: Cardinal cannot accept verbal changes. Please email changes to celey keene@cardinallabsnm.com Project Owner: Fax #: State: USL Zip: 28040 22 oever shall be deemed waved unless made in writing and received by Cardinal within 30 days after completion of the applicable ages, including without limitation, business interr 19/21 remedy for any claim Inder by Ca X Received By: Received By GIRAB OR COMP # CONTAINERS Cool Intact GROUNDWATER Sample Condition WASTEWATER MATRIX SOIL OIL plians, lass of use, or loss of profits i claim is based upon an SLUDGE OTHER State: City: Fax #: P.O. #: Phone #: Address: Attn: Company: ACID/BASE PRESERV CHECKED BY: (CE) COOL (Initials) OTHER BILL TO Zip: 1/14 DATE I by client, its subsidianes SAMPLING paid by the client for the Thermometer ID #113 Correction Factor None Turnaround Time: 3:04 Verbal Result:
Ves
No Add'I Phone #:
All Results are emailed. Please provide Email address: REMARKS: 30.5 TIME tph Standard ANALYSIS REQUEST Bacteria (only) Sample Condition Cool Intact Observed Temp. Vet Yes Nc No Corrected Temp. Corrected Temp. °C Observed Temp. °C

Received by OCD:

6/4/2021



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

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

Analytical Results For:

APACHE CORP - HOBBS	Project:	GERONIMO #28	Reported:
2350 W. MARLAND BLVD.	Project Number:	NONE GIVEN	28-Jan-21 11:52
10BBS 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
В 39	H210143-02	Soil	20-Jan-21 09:22	21-Jan-21 08:45
B 40	H210143-03	Soil	20-Jan-21 09:24	21-Jan-21 08:45
B 41	H210143-04	Soil	20-Jan-21 09:26	21-Jan-21 08:45
B 42	H210143-05	Soil	20-Jan-21 09:28	21-Jan-21 08:45
B 43	H210143-06	Soil	20-Jan-21 09:30	21-Jan-21 08:45
B 44	H210143-07	Soil	20-Jan-21 09:32	21-Jan-21 08:45
B 45	H210143-08	Soil	20-Jan-21 09:34	21-Jan-21 08:45
B 46	H210143-09	Soil	20-Jan-21 11:20	21-Jan-21 08:45
B 47	H210143-10	Soil	20-Jan-21 11:22	21-Jan-21 08:45
B 48	H210143-11	Soil	20-Jan-21 11:24	21-Jan-21 08:45
B 49	H210143-12	Soil	20-Jan-21 11:26	21-Jan-21 08:45
B 50	H210143-13	Soil	20-Jan-21 11:28	21-Jan-21 08:45
B 51	H210143-14	Soil	20-Jan-21 11:30	21-Jan-21 08:45
B 52	H210143-15	Soil	20-Jan-21 11:32	21-Jan-21 08:45
B 53	H210143-16	Soil	20-Jan-21 11:34	21-Jan-21 08:45
B 54	H210143-17	Soil	20-Jan-21 11:36	21-Jan-21 08:45
B 55	H210143-18	Soil	20-Jan-21 11:38	21-Jan-21 08:45
B 56	H210143-19	Soil	20-Jan-21 11:40	21-Jan-21 08:45
B 57	H210143-20	Soil	20-Jan-21 11:42	21-Jan-21 08:45
B 58	H210143-21	Soil	20-Jan-21 11:44	21-Jan-21 08:45
B 59	H210143-22	Soil	20-Jan-21 11:46	21-Jan-21 08:45
B 60	H210143-23	Soil	20-Jan-21 11:48	21-Jan-21 08:45
B 61	H210143-24	Soil	20-Jan-21 11:50	21-Jan-21 08:45
B 67	H210143-25	Soil	20-Jan-21 14:22	21-Jan-21 08:45
B 63	H210143-26	Soil	20-Jan-21 14:24	21-Jan-21 08:45
B 64	H210143-27	Soil	20-Jan-21 14:26	21-Jan-21 08:45

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive nemedy for any cleim arising, whether based in contract or tort, shall be limited to the emount paid by client for analyses. All claims, including those for negligence ar any other cause whatboever 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 listle for incidental or consequential damage, including, without limitation, business interruptions, lass 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 hereinder by Cardinal, regardless of whether su 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 apprival of Cardinal Laboratories.

Celeg Z. Keene



APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240		Project: Project Number: Project Manager: Fax To:	GERONIMO #28 NONE GIVEN BRUCE BAKER (575) 393-2432	Reported: 28-Jan-21 11:52
B 83	H210143-28	Soil	20-Jan-21 14:28	21-Jan-21 08:45
B 84	H210143-29	Soil	20-Jan-21 14:30	21-Jan-21 08:45
B 85	H210143-30	Soil	20-Jan-21 14:32	21-Jan-21 08:45
B 86	H210143-31	Soil	20-Jan-21 14:34	21-Jan-21 08:45

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

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Candinal's liability and cleant's exclusive remedy for any daim arising, whether based in contract or fort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence as any other cause whatcomer shall be deemed waived unless made in writing and received by Candinal within thiny (30) days after completion of the applicable service. In no event shall be deemed waived unless made in writing and received by Candinal within thiny (30) days after completion of the applicable service. In no event shall be demed waived unless made in writing and received by Candinal within thiny (30) days after completion of the applicable service. In no event shall be demed waived unless made in writing and received by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Candinal, regardless of whether suclaim to sease those stated reasons or otherwise, Results relate only to the services learning and not be reproduced except in full with writien approval of Candinal taborations.

Celling 2. Keine



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 38	-41)						
			H210	143-01 (50	011)	_					
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-Cl-B		
Volatile Organic Compounds I	by EPA Method	8021				1.00					
Benzene*	< 0.050		0.050	mg/kg	50	1012104	MS	21-Jan-21	8021B		
Toluene*	< 0.050		0.050	mg/kg	50	1012104	MS	21-Jan-21	8021B		
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012104	MS	21-Jan-21	8021B		
Total Xylenes*	< 0.150		0.150	mg/kg	50	1012104	MS	21-Jan-21	8021B		
Total BTEX	< 0.300		0.300	mg/kg	50	1012104	MS	21-Jan-21	8021B		
Surrogate: 4-Bromofluorobenzene (PID,)		97.9 %	73.3	-129	1012104	MS	21-Jan-21	8021B		
Petroleum Hydrocarbons by C	GC FID				12						
GRO C6-C10*	<10.0		10.0	mg/kg	1	1012105	MS	21-Jan-21	8015B		
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012105	MS	21-Jan-21	8015B		
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012105	MS	21-Jan-21	8015B		
Surrogate: 1-Chlorooctane			83.5 %	44.3	-144	1012105	MS	21-Jan-21	8015B		
Surrogate: 1-Chlorooctadecane			89.8 %	42.2	-156	1012105	MS	21-Jan-21	8015B		

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Usability and Damages. Cardinal's liability and client's exclusive remarky for any claim arising, whether based in contract or turt, shall be limited to the amount paid by client for analyses. All claims, including linose for megligence ar any other cause whatsoewer shall be deemed walved unless made in writing and necelved by Cardinal within thiny (30) days after completion of the applicable service. In no event shall Cardinal, be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arbsing out of or related to the performance of the services hereunder by Cardinal, regardless of whether sur claim is based upon any of the services for classors archives.

Celeg & Keine



APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240	3BS Project: GERONIMO #28 BLVD. Project Number: NONE GIVEN Project Manager: BRUCE BAKER Fax To: (575) 393-2432									Reported: 28-Jan-21 11:52		
			H2101	B 39 43-02 (Se	oil)							
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes		
			Cardina	l Laborat	tories							
Inorganic Compounds						_	_			_		
Chloride	1170		16.0	mg/kg	4	1012102	AC	22-Jan-21	4500-Cl-B			
Volatile Organic Compounds b	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	i.	1012105	MS	21-Jan-21	8015B			
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012105	MS	21-Jan-21	8015B			
Surrogate: 1-Chlorooctane			83.7 %	44.3	-144	1012105	MS	21-Jan-21	8015B			
Surrogate: 1-Chlorooctadecane			87.9 %	42.2	-156	1012105	MS	21-Jan-21	8015B			

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence at any other cause whethere whethe

Celeg Z. Kee



APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240			Proj Project Num Project Mana Fax	ject: GEF ber: NOI ger: BRU To: (57)	8 Reported: 28-Jan-21 11:52					
			H210	B 40	,ih					
			112101	145-05 (50	лш) 					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds				_						
Chloride	240		16.0	mg/kg	4	1012102	AC	22-Jan-21	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021			_					
Benzene*	< 0.050		0.050	mg/kg	50	1012104	MS	21-Jan-21	8021B	-
Toluene*	<0.050		0.050	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	73,3	-129	1012104	MS	21-Jan-21	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	1012105	MS	21-Jan-21	8015B	_
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012105	MS	21-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012105	MS	21-Jan-21	8015B	
Surrogate: 1-Chlorooctane			79.4 %	44.3	-144	1012105	MS	21-Jan-21	8015B	
Surrogate: 1-Chlorooctadecane			83.1%	42.2	-156	1012105	MS	21-Jan-21	8015B	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim ansing, whether based in contract or tort, shall be limited to the applicable service. In no event shall Cardinal be liable or incidental or consequential damage liability and client's exclusive threads upon any other cause whatsoever shall be deemed waived unless, including those for negligence as any other cause whatsoever shall be deemed waived unless, including those for negligence as including, whether based in contract or tort, shall be demited to the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, who limits thinky (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, who limits think the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in fail with written approval of Cardinal laborations.

Celey D. Keine

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 41	oil)						
-					,,						
Analyte	Result	MDL.	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	tories						
Inorganic Compounds											
Chloride	256		16.0	mg/kg	-4	1012203	AC	22-Jan-21	4500-Cl-B		
Volatile Organic Compounds I	oy 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)	1		100 %	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			82.8 %	44.3	-144	1012105	MS	21-Jan-21	8015B		
Surrogate: 1-Chlorooctadecane			86.7 %	42.2	-156	1012105	MS	21-Jan-21	8015B		

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remody 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 at any other cause whatsever shall be deemed weived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be lipite for incidental or consequential damage including, without limitation, business interruptions, tass 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 su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celleg Z. Keen



APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240			Proj Project Num Project Mana Fax	Project: GERONIMO #28 ct Number: NONE GIVEN t Manager: BRUCE BAKER Fax To: (575) 393-2432						Reported: 28-Jan-21 11:52	
			H210	B 42	nil)						
								-			
Analyte	Result	MDL	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	CFID										
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	i.	1012105	MS	21-Jan-21	8015B		
Surrogate: 1-Chlorooctane			86.5 %	44.3	-144	1012105	MS	21-Jan-21	8015B		
Surrogate: 1-Chlorooctadecane			91.6%	42.2	-156	1012105	MS	21-Jan-21	8015B		

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence as any other cause whebsever 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 incidential or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celley 2 Keine



APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240		Reported: 28-Jan-21 11:	52							
			H210	B 43	nil)					
1	1.12	A	Reporting							
Analyte	Result	MDL	Ĺimit	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 by	EPA Method	8021	1	Anne al						
Benzene*	< 0.050		0.050	mg/kg	50	1012104	MS	21-Jan-21	8021B	_
Toluene*	< 0.050		0.050	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	1012104	MS	21-Jan-21	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.6 %	73,3	-129	1012104	MS	21-Jan-21	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	1012105	MS	21-Jan-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012105	MS	21-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012105	MS	21-Jan-21	8015B	
Surrogate: 1-Chlorooctane			81.5 %	44.3	-144	1012105	MS	21-Jan-21	8015B	
Surrogate: 1-Chlorooctadecane			86.5 %	42.2	-156	1012105	MS	21-Jan-21	8015B	

Cardinal Laboratories

*=Accredited Analyte

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

Celeg Z. Keen



APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240				Reported: 28-Jan-21 11:52						
			H210	B 44	,iD					
			11210.	143-07 (5)II)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds					A					
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	200	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	CFID									
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	Τ.	1012105	MS	21-Jan-21	8015B	
Surrogate: 1-Chlorooctane			89.8 %	44.3	-144	1012105	MS	21-Jan-21	8015B	
Surrogate: 1-Chlorooctadecane			93.2 %	42.2	-156	1012105	MS	21-Jan-21	8015B	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's flability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence at any other cause whistoever shall be deemed waived unless made. In writing and neceived by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by Cardinal subsidiaries, affiliates or successors arising out of or related to the performance of the services hereundor by Cardinal, regardless of whether sur claim is based to come any of the above stored resonance or otherwise. Results relate only to the sample claim is based to be reportable or contract.

Celey & Keen

Celey D. Keene, Lab Director/Quality Manager

Page 10 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			
				B 45								
		_	H210	143-08 (Se	pil)					-		
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes		
			Cardina	l Labora	tories							
Inorganic Compounds												
Chloride	4560		16.0	mg/kg	4	1012203	AC	22-Jan-21	4500-CI-B			
Volatile Organic Compounds by I	EPA Method	8021										
Benzene*	< 0.050		0.050	mg/kg	50	1012104	MS	21-Jan-21	8021B			
Toluene*	< 0.050		0.050	mg/kg	50	1012104	MS	21-Jan-21	8021B			
Ethylbenzene*	< 0.050		0.050	mg/kg	50	1012104	MS	21-Jan-21	8021B			
Total Xylenes*	<0.150		0.150	mg/kg	50	1012104	MS	21-Jan-21	8021B			
Total BTEX	< 0.300		0.300	mg/kg	50	1012104	MS	21-Jan-21	8021B			
Surrogate: 4-Bromofluorobenzene (PID)			101 %	73,3	-129	1012104	MS	21-Jan-21	8021B			
Petroleum Hydrocarbons by GC	FID											
GRO C6-C10*	<10.0		10.0	mg/kg	1	1012105	MS	21-Jan-21	8015B			
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012105	MS	21-Jan-21	8015B			
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012105	MS	21-Jan-21	8015B			
Surrogate: 1-Chlorooctane			86.9 %	44.3	-144	1012105	MS	21-Jan-21	8015B			
Surrogate: 1-Chlorooctadecane			91.3 %	42.2	-156	1012105	MS	21-Jan-21	8015B			

Cardinal Laboratories

*=Accredited Analyte

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

Cellery Z. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 11 of 47

APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240	Project: GERONIMO #28 R 'D. Project Number: NONE GIVEN 28-J Project Manager: BRUCE BAKER Fax To: (575) 393-2432								Reported: 28-Jan-21 11:	52
			H210	B 46	ail)					
		_	11210.	143-10 (0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Analyte	Result	MDL.	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	5120		16.0	mg/kg	4	1012203	AC	22-Jan-21	4500-Cl-B	
Volatile Organic Compounds b	v EPA Method	8021		-		1.1				
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-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	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	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for nagingence at any other cause whatsoever shall be deened 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 lable for incidental or consequential damagu including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors ariting out of or related to the performance of the services hereunder by Cardinal, regardless of whether so claim is based upon any of the above stated reasons or otherwise. Results relate only to the service identified above. This report shall not be reprodued except in full with written approval of Cardinal Lioratorites.

Celleg There



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 47	-95					
			H210	143-10 (54	ou)	-				_
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labora	tories					
Inorganic Compounds			1.1							
Chloride	3680		16.0	mg/kg	4	1012203	AC	22-Jan-21	4500-C1-B	
Volatile Organic Compounds b	y 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		129 1012111		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			92.6 %	44.3	-144	1012108	MS	21-Jan-21	8015B	
Surrogate: 1-Chlorooctadecane			97.4 %	42.2	-156	1012108	MS	21-Jan-21	8015B	

Cardinal Laboratories

*=Accredited Analyte

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

Celeg D.+

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	oil)						
50			Reporting						100		
Analyte	Result	MDL	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 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)		101 %	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	i	1012108	MS	21-Jan-21	8015B		
Surrogate: 1-Chlorooctane			81.4 %	44.3	-144	1012108	MS	21-Jan-21	8015B		
Surrogate: 1-Chlorooctadecane			82.9 %	42.2	-156	1012108	MS	21-Jan-21	8015B		

Cardinal Laboratories

*=Accredited Analyte

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

Cellerg & Kreene

Celey D. Keene, Lab Director/Quality Manager



APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240	S Project: GERONIMO #28 VD. Project Number: NONE GIVEN 28 Project Manager: BRUCE BAKER Fax To: (575) 393-2432									52
			H210	B 49	,in					
			11210.	140-12 (0)	,iu)					
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 by	EPA Method	8021								
Benzene*	<0.050		0.050	mg/kg	50	1012111	MS	21-Jan-21	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	1012111	MS	21-Jan-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012111	MS	21-Jan-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1012111	MS	21-Jan-21	8021B	
Total BTEX	<0,300		0.300	mg/kg	50	1012111	MS	21-Jan-21	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.2 %	73.3	-129	1012111	MS	21-Jan-21	8021B	-
Petroleum Hydrocarbons by 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		

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Danages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence at any other case whatboever 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 be fable tor incidental or consequential damage including, without limitation, business interruptions, loss of profils incurred by client, lis subsidiaries, affiliates or successors arising out of or related to the services hereunder by Cardinal, regardless of whether suclaim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg Thees



APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240	Project:GERONIMO #28Reported:Project Number:NONE GIVEN28-Jan-21 11Project Manager:BRUCE BAKERFax To:(575) 393-2432									52
			H210	B 50	5 1)					
			Reporting				0.12			
Analyte	Result	MDL	Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds	_			_						
Chloride	9860	-	16.0	mg/kg	4	1012203	AC	22-Jan-21	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050	1.00	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		

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence at any other cause whatspeever 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 be limited to the limit or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by dient, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether sur daim is based to one any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of cardinal bactarteries.

Celeg & Keine

Celey D. Keene, Lab Director/Quality Manager

Page 16 of 47


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					28		:	Reported: 28-Jan-21 11:	52	
			H210	B 51	oil)						
1				145-14 (5	м),	_					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	ories						
Inorganic Compounds											
Chloride	7060		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	20710		
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 8071B		
Surrogate: 4-Bromofluorobenzene (PID)			99.4%	73.3	129	1012111	MS	21-Jan-21	8021B 8021B		
Petroleum Hydrocarbons by GC	FID							21 000 21	00215		
GRO C6-C10*	<10.0		10.0	mg/kg	1	1012108	MS	21 Jan 21	20160		
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	80158		
Surrogate: 1-Chlorooctane			95.3 %	44.3-	144	1012108	MS	21. Jan. 21	8015R		
Surrogate: 1-Chlorooctadecane			99.5% 42.2-156 101210			1012108	MS	MS 21-Jan-21 80158			

Cardinal Laboratories

*=Accredited Analyte

Page 17 of 47

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remady for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence as any other cause whatsuever shall be deemed valued 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 indicental or consequential damage datim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg 2.1



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 52	ail)						
			11210	145-15 (5	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		_				
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	tories						
Inorganic Compounds				_		-					
Chloride	8400		16.0	mg/kg	4	1012203	AC	22-Jan-21	4500-Cl-B		
Volatile Organic Compounds by	EPA Method	8021									
Benzene*	<0.050		0.050	mg/kg	50	1012111	MS	21-Jan-21	8021B		
Toluene*	< 0.050		0.050	mg/kg	50	1012111	MS	21-Jan-21	8021B		
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012111	MS	21-Jan-21	8021B		
Total Xylenes*	<0.150		0.150	mg/kg	50	1012111	MS	21-Jan-21	8021B		
Total BTEX	< 0.300		0.300	mg/kg	50	1012111	MS	21-Jan-21	8021B		
Surrogate: 4-Bromofluorobenzene (PID)			99.3 %	73.3	-129	1012111	MS	21-Jan-21	8021B		
Petroleum Hydrocarbons by GC	FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B		
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B		
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B		
Surrogate: 1-Chlorooctane			88.2 %	44.3	-144	1012108	MS	21-Jan-21	8015B		
Surrogate: 1-Chlorooctadecane			98.1 %	42.2	-156	1012108	MS	21-Jan-21	8015B		

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remody for any dalm arising, whether based in contract or tort, shall be limited to the emount paid by client for analyses. All claims, including those for negligence are any other cause whatocever shall be deemed walved unless made in writing and received by Cardinal vation thinty (30) days after completion of the applicable service. In no event shall Cardinal be lable for incidental or consequential damage including, without limitation, business interruptions, loss of profils 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 su claim is based upon any of the above stated reasons or otherwise, Results relate only to the samples identified above. This report shall no be reproduced except in full with written approval of Cardinal Laboratories.

Celler There

Celey D. Keene, Lab Director/Quality Manager

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

Analytical Results For:

APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240			Project: GERONIMO #28 Project Number: NONE GIVEN Project Manager: BRUCE BAKER Fax To: (575) 393-2432					Reported: 28-Jan-21 11:52		
			H210	B 53	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	1012203	AC	22-Jan-21	4500-CI-B	
Volatile Organic Compounds b	y EPA Method	8021						1.00		
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	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	Ĩ	1012108	MS	21-Jan-21	8015B	
Surrogate: 1-Chlorooctane			89.5 %	44.3	-144	1012108	MS	21-Jan-21	8015B	
Surrogate: 1-Chlorooctadecane			95.0 %	42.2	-156	1012108	MS	21-Jan-21	8015B	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and cleart's exclusive remedy for any daim arising, whether based in contract or fort, shell be limited to the amount paid by client for analyses. All claims, including those for negligence as any other cause whistoever shall be demined 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 leaded to finddental or correspondial damage including, whither based in subsidiaries, affiliates or successors arising out of or related to the performance of the services bereaution, 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 bereauties by Cardinal, regardless of whether su claims is based usion any of the above stated reasons or otherwise. Results relate only to the samples identified above. This reports all not be reported except in full with written approval of Cardinal laborationes.

Cellen There



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 54	sil)						
	_	_	11210	143-17 (30)11)						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	ories						
Inorganic Compounds	-										
Chloride	12800		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)			99.1 %	73.3	-129	1012111	MS	22-Jan-21	8021B		
Petroleum Hydrocarbons by GC	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		

Cardinal Laboratories

*=Accredited Analyte

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

Celeg then

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 Project Mana Fax	ject: GEF ber: NOI ager: BRU To: (57)	Ronimo #2 Ne given Jce Baker 5) 393-243		Reported: 28-Jan-21 11:52			
			H210	B 55 143-18 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
the state of the second			Cardina	l Laborat	ories					
Inorganic Compounds	-									
Chloride	5730		16.0	mg/kg	4	1012203	AC	22-Jan-21	4500-CI-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	73.3	-129	1012111	MS	22-Jan-21	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	-
DRO >C10-C28*	<10.0		10.0	mg/kg	Ð	1012108	MS	21-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
Surrogate: 1-Chlorooctane			84.2 %	44.3	-144	1012108	MS	21-Jan-21	8015B	
Surrogate: 1-Chlorooctadecane			92.3 %	42.2	-156	1012108	MS	21-Jan-21	8015B	

Cardinal Laboratories

*=Accredited Analyte

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

Celeg Di Keen ~



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 56	sil)						
			11210	143-19 (30))						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
1.000			Cardina	l Laborat	ories						
Inorganic Compounds	-										
Chloride	7460		16.0	mg/kg	4	1012203	AC	22-Jan-21	4500-C1-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)			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		

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim straing, whether based in contract or tori, shall be limited to the amount paid by client for analyses. All claims, including under for negligence as any other cause whatcower shall be demined 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 libile for incidental or consequential damage including, whether said the upon libid of or related to the performance of the services hereunder by Cardinal regardless of whether said dam is based upon any of the above stated reasons for drivides. Results relate only to the sample identible to report shall not be reproduced except in full with writen approval of Cardinal constraints.

Celeg D.Kern



APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240			Pro Project Num Project Mana Fax	ject: GEF iber: NOI iger: BRU To: (57	Ronimo #2 Ne given Jce Baker 5) 393-243	Reported: 28-Jan-21 11:52				
			11210	B 57	all)					
			11210.	143-20 (5	011)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labora	tories					
Inorganic Compounds										
Chloride	9730		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)			101 %	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	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	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and cleant's exclusive remedy for any claim arising, whether besed in contract or tort, shall be limited to the amount paid by cleant for analyses. All claims, including those for negligence ariany officience without completion of the applicable service. In no event 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 lable for incidential or consequential damage including, whether suidance arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether suidaling is abadidantes, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether suidaling is based upon any of the above stated reasons or otherwise, results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Liaboratories.

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 Num Project Mana Fax	ject: GEF nber: NO ager: BRU c To: (57	Ronimo #2 Ne given Jce Baker 5) 393-243	28			Reported: 28-Jan-21 11:	52	
				B 58		12				
		_	H210	143-21 (S	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	7730		16.0	mg/kg	4	1012203	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)			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	1	1012108	MS	21-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
Surrogate: 1-Chlorooctane			86.4 %	44.3	-144	1012108	MS	21-Jan-21	8015B	_
Surrogate: 1-Chlorooctadecane			95.2 %	42.2	-156	1012108	MS	21-Jan-21	8015B	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and cleants exclusive remedy for any claim arising, whether based in contract or tort, shall he limited to the amount paid by client for analyses. All claims, inclusing those for negligence at any other cause whatsoever shall be deemed weived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be fielde for incidential coronexpuential damage including, without limitation, iusiness interruptions, loss of use, or loss of profils 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 su claim is based upon any of the above stated reasons or otherwise, Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celleg & Kune

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 59	NI)					
		-	H2TU.	143-22 (3)	,u)		_		_	
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	1000
Toluene*	< 0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.4%	73.3	-129	1012111	MS	22-Jan-21	8021B	-
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	J	1012108	MS	21-Jan-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
Surrogate: 1-Chlorooctane			91.2 %	44.3	-144	1012108	MS	21-Jan-21	8015B	
Surrogate: 1-Chlorooctadecane			98.2 %	42.2	156	1012108	MS	21-Jan-21	8015B	

Cardinal Laboratories

*=Accredited Analyte

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

Celeg D. Kee



APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240		Pro Project Num Project Mana Fay	Ronimo #2 Ne given Jce Baker 5) 393-243	28			Reported: 28-Jan-21 11:52			
				B 60						
			H210	143-23 (S	011)		_			_
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	5060		16.0	mg/kg	4	1012203	AC	22-Jan-21	4500-C1-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			100 %	73.3	-129	1012111	MS	22-Jan-21	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
Surrogate: 1-Chlorooctane			88.6%	44.3	-144	1012108	MS	21-Jan-21	8015B	
Surrogate: 1-Chlorooctadecane			95.4 %	42.2	-156	1012108	MS	21-Jan-21	8015B	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clent's exclusive remody for any claim artising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence as any other cause whatsoever shall be deemed welved unless made in writing and received by Cardinal within they (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profils 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 su claim is based upon any of the above stated reasons or otherwise, Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratones.

Celler T. Keene

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 61	-in-					
-			11210.	143-24 (34)u)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	4400		16.0	mg/kg	4	1012110	AC	22-Jan-21	4500-CI-B	QM-07
Volatile Organic Compounds by I	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.8 %	73.3	-129	1012111	MS	22-Jan-21	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	1012108	MS	21-Jan-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	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	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Candinal'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 these for negligency arising whether cause whetbacever 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 tor incidential or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardlass of whether su claim is hased upon any of the above stated reasons or clienvise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keen

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				
				B 62						
			H210	143-25 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labora	tories					
Inorganic Compounds										
Chloride	7520		16.0	mg/kg	4	1012110	AC	22-Jan-21	4500-CI-B	
Volatile Organic Compounds by	EPA Method	8021				and the second second				
Benzene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Toluene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			102 %	73.3	-129	1012111	MS	22-Jan-21	8021B	
Petroleum Hydrocarbons by GC	FID			_						
GRO C6-C10*	<10.0		10.0	mg/kg	1	1012108	MS	22-Jan-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012108	MS	22-Jan-21	8015B	
EXT DRO >C28-C36	<10,0		10.0	mg/kg	1	1012108	MS	22-Jan-21	8015B	
Surrogate: 1-Chlorooctane			91.0 %	44.3	-144	1012108	MS	22-Jan-21	8015B	
Surrogate: 1-Chlorooctadecane			98.9 %	42.2	-156	1012108	MS	22-Jan-21	8015B	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence at any office cause whitstoewer shall be deemed welved unless made in writing and received by Cardinal within thiny (30) days after completion of the applicable service. In no event shall Cardinal be label for incidental or consequential damage induding whether su claims, including those to is subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regaraless of whether su claims be applicable service. The team of the services hereunder by Cardinal, regaraless of whether su claims is absorbing with the applicable service at the above stated receive at the cardinal contract or to be reported and on the performance of the services hereunder by Cardinal, regaraless of whether su claims is absorbing with the approved of cardinal Laboratories.

Celey Z. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 28 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			
			H210	B 63)							
			11210.	1-10-20 (00	/m)				5			
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes		
			Cardina	l Laborat	tories							
Inorganic Compounds												
Chloride	7330		16.0	mg/kg	4	1012110	AC	22-Jan-21	4500-CI-B			
Volatile Organic Compounds by	EPA Method	8021		-			100					
Benzene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B			
Toluene*	< 0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B			
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B			
Total Xylenes*	<0,150		0.150	mg/kg	50	1012111	MS	22-Jan-21	8021B			
Total BTEX	<0.300		0.300	mg/kg	50	1012111	MS	22-Jan-21	8021B			
Surrogate: 4-Bromofluorobenzene (PID)			99.6 %	73.3	-129	1012111	MS	22-Jan-21	8021B			
Petroleum Hydrocarbons by GC	FID											
GRO C6-C10*	<10.0		10.0	mg/kg	1	1012108	MS	22-Jan-21	8015B			
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012108	MS	22-Jan-21	8015B			
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012108	MS	22-Jan-21	8015B			
Surrogate: 1-Chlorooctane			90.7 %	44.3	-144	1012108	MS	22-Jan-21	8015B			
Surrogate: 1-Chlorooctadecane			99.9 %	42.2	-156	1012108	MS	22-Jan-21	8015B			

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by dient for analyses. All claims, inducing these for negligence ar any other cause whateover 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 lable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profils incurred by client, its subsidiaries, affiliates or successors atising out of or related to the performance of the services hereunder by Cardinal, regardless of whether suclaim is based upon any of live above stated records or or or the services. This report shall not be reported except in full with written approval of Cardinal Liveotrations.

Celeg & Keene

APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240			Pro Project Num Project Mana Fax		Reported: 28-Jan-21 11:52					
			H210	B 64	(lic					
		_	11210	145-27 (5)u)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds			_							
Chloride	8660	-	16.0	mg/kg	4	1012110	AC	22-Jan-21	4500-CI-B	
Volatile Organic Compounds by 1	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	1012111	MS	22-Jan-21	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.6 %	73.3	-129	1012111	MS	22-Jan-21	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	- i	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	1000
Surrogate: 1-Chlorooctadecane			95.1%	42.2	-156	1012108	MS	22-Jan-21	8015B	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence at any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be leader for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether suclaim 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 fell with written approval of Cardinal Laboratories.

Celleg 2. Keen

Celey D. Keene, Lab Director/Quality Manager

Page 30 of 47



APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240			Proj Project Num Project Mana Fax	ect: GER ber: NOI ger: BRU To: (57)	Ronimo #2 Ne given Jce Baker 5) 393-243	28			Reported: 28-Jan-21 11:	52
			H2101	B 83	oil)					
				10 20 (5	(11)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds	_		1.12			_				
Chloride	6400		16.0	mg/kg	4	1012110	AC	22-Jan-21	4500-Cl-B	
Volatile Organic Compounds t	oy EPA Method	8021		-				-	1	
Benzene*	< 0.050	4 A.	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	22-Jan-21	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012108	MS	22-Jan-21	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012108	MS	22-Jan-21	8015B	
Surrogate: 1-Chlorooctane			80.5 %	44.3	-144	1012108	MS	22-Jan-21	8015B	
Surrogate: 1-Chlorooctadecane			86.8 %	42.2	-156	1012108	MS	22-Jan-21	8015B	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Candinal's liability and cliant's exclusive remedy for any claim arising, whether based in contract or tort, shell be limited to the amount paid by client for analyses. All claims, including those for negligence a any other cause whatboover shall be deemed wahed unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be lable for incidental or consequential damage including, without limitation, justiness interruptions, loss of use, or loss of profils incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Candinal, regardless of whether sur claims based upon any of the above stated reasons or charvines. Results relate only to the sample identified above. This report shall not be reproted of core in full with writen approval of Cardinal aboritatives.

Celeg Z. Kune



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						2	Reported: 28-Jan-21 11:52			
			11210	B 84	SI)						
			11210)	43-23 (30	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					-	
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	tories						
Inorganic Compounds					1000						
Chloride	8400		16.0	mg/kg	4	1012110	AC	22-Jan-21	4500-Cl-B		
Volatile Organic Compounds by	v 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)	A		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		

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whicher based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence a any other cause whatboewer shall be demined 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 table for incidenal or consequential damage including, without limitation, business interruptions, loss of use, or loss of profils incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the sovices hereunder by Cardinal, regardless of whether su claim is based to prove stated reasons or otherwise. Results relate only to the sample identified above. This report hall not be reproduced except in full with written approval of cardinal laboratories.

Celeg the



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 85	-							
			H210	143-30 (30)U)							
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	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	80218			
Ethylbenzene*	<0.050		0.050	mg/kg	50	1012206	MS	22-Jan-21	8071B			
Total Xylenes*	<0.150		0.150	mg/kg	50	1012206	MS	22-Jan-21	8021B			
Total BTEX	< 0.300		0.300	mg/kg	50	1012206	MS	22-Jan-21	8021B			
Surrogate: 4-Bromofluorobenzene (PID,)		99.1 %	73.3	-129	1012206	MS	22-Jan-21	8021B			
Petroleum Hydrocarbons by 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	156	1012202	MS	22-Jan-21	80158			

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence at any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential itemage 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 su 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 writen approval of Cardinal Laboratories.

Celleg L. Keine



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 86	oil)						
	1.00		Banadian		,iii)						
Analyte	Result	MDL	Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	tories						
Inorganic Compounds	_										
Chloride	6640	-	16.0	mg/kg	4	1012110	AC	22-Jan-21	4500-Cl-B		
Volatile Organic Compounds by	EPA Method	8021		120		1.12					
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 GO	CFID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	1012202	MS	22-Jan-21	8015B		
DRO >C10-C28*	<10.0		10.0	mg/kg	1	1012202	MS	22-Jan-21	8015B		
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	1012202	MS	22-Jan-21	8015B		
Surrogate: 1-Chlorooctane			83.1 %	44.3	-144	1012202	MS	22-Jan-21	8015B		
Surrogate: 1-Chlorooctadecane			86.3 %	42.2	-156	1012202	MS	22-Jan-21	8015B		

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim ansarg, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, inducing these for negligence ar any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be label for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services heraunder by Cardinal, regardless of whether sus daim is based uson 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 writer approval of Cardinal laboratories.

Celleg & Kein



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

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any dalm arising, whether based in contract or tort, shall be limited to the amount psid by client for analyses. All claims, including those for negligence as any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable services. In no event shall charding these for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits inclured by client, its subdidaries, affiliates or successors arising out of or related to the performance of the services thereunder by Cardinal, regardless of whether sur 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 reported except in full with written approval of Cardinal to attracted.

Celeg D. Kees

Celey D. Keene, Lab Director/Quality Manager



APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS NM, 88240		P Project Nu Project Ma F	Project: umber: nager: Fax To:	GERONIMO NONE GIVE BRUCE BAK (575) 393-2	#28 N ER 432			28	Reported: -Jan-21 11	:52
	Ino	rganic Com Cardin	pound nal Lai	s - Quality boratories	Control					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1012203 - 1:4 DI Water										
.CS Dup (1012203-BSD1)				Prepared &	Analyzed:	22-Jan-21				
hloride	416	16.0	in a llea	100		101	00.100	2.34		

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

Cardinal Laboratories

*=Accredited Analyte

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

Celez Keine

Celey D. Keene, Lab Director/Quality Manager

Page 36 of 47



Page 129 of 178

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	
and the second second second second	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 1012104 - Volatiles										
Blank (1012104-BLK1)				Prepared &	Analyzed:	21-Jan-21				
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0,150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		99.8	73.3-129			
LCS (1012104-BS1)				Prepared &	Analyzed:	21-Jan-21				
Benzene	2.07	0.050	mg/kg	2.00		103	72.2-131			
Toluene	2.04	0.050	mg/kg	2.00		102	71.7-126			
Ethylbenzene	2.00	0.050	mg/kg	2.00		99.8	68.9-126			
Total Xylenes	5.88	0.150	mg/kg	6.00		97.9	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0489		mg/kg	0.0500		97.8	73.3-129	200		
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 &	k Analyzed:	21-Jan-21				
Benzene	ND	0.050	mg/kg	1.1.1						
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		99.6	73.3-129			

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Domages. Cardinal's liability and client's exclusive remody 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 as any other cause whetsower shall be deemed walved unless made in writing and received by Cardinal within thinty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profils incurred by dient, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Candinal, regardless of whether su claim to based upon any of the above stated reasons or othewise. Realts relate only to the samples identified above. This report shall not be reproduced except in full with writen approval of Cardinal Liaboratories.

Celeg Z. Keene

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

Anglara		Reporting	de la	Spike	Source	and the second	%REC		RPD	
maryte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1012111 - Volatiles										
LCS (1012111-BS1)				Prepared &	Analyzed:	21-Jan-21				
Benzene	2.07	0.050	mg/kg	2.00		104	72.2-131			
Toluene	2.03	0.050	mg/kg	2.00		102	71.7-126			
Ethylbenzene	2.00	0.050	mg/kg	2.00		100	68.9-126			
Total Xylenes	5.88	0.150	mg/kg	6.00		98.1	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0493		mg/kg	0.0500		98.6	73.3-129			
LCS Dup (1012111-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							
Foluene	ND	0.050	mg/kg							
Sthylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	ing/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			
l'oluene	2.09	0.050	mg/kg	2.00		104	71.7-126			
Bthylbenzene	2.07	0.050	mg/kg	2.00		103	68.9-126			
fotal Xylenes	6.05	0.150	mg/kg	6.00		101	71.4-125			
hurrogate: 4-Bromofluorobenzene (PID)	0.0491		mg/kg	0.0500		98.2	73.3-129			

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clearks exclusive remotify for any dalm arising, whether based in contract or tort, shall be limited to the amount paid by cleark for analyses. All claims, including those for neglegence at any other cause whatsoever shall be deemed weived 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 incidential or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether san dalm is based upon any of the above stated reasons or otherwise, Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celery D. Keine

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	Pagult	Reporting	Unite	Spike	Source	NAL	%REC	0.000	RPD	
плаула	Result	Lunit	Units	Level	Kesult	%REC	Limits	RPD	Lamit	Notes
Batch 1012206 - Volatiles										
LCS Dup (1012206-BSD1)				Prepared &	Analyzed:	22-Jan-21				
Benzene	2.17	0.050	mg/kg	2.00		109	72.2-131	1.01	14.6	
Toluene	2.10	0.050	mg/kg	2.00		105	71.7-126	0.521	17.4	
Ethylbenzene	2.07	0.050	mg/kg	2.00		103	68.9-126	0,112	18.9	
Total Xylenes	6.04	0.150	mg/kg	6.00		101	71.4-125	0.160	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0493		mg/kg	0.0500		98.5	73.3-129			

Cardinal Laboratories

*=Accredited Analyte

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

Celeg Dithera



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	
and the second	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 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 8	& Analyzed:	21-Jan-21				
GRO C6-C10	221	10.0	mg/kg	200		111	83.7-135	2.79	13.8	
DRO>C10-C28	216	10.0	mg/kg	200		108	80.4-133	0.463	22.1	
Total TPH C6-C28	437	10.0	mg/kg	400		109	83.1-133	1.17	17.7	
Surrogate: 1-Chlorooctane	46.7		mg/kg	50.0		93.5	44.3-144			
Surrogate: 1-Chlorooctadecane	49.7		mg/kg	50.0		99.4	42.2-156			

Batch 1012108 - General Prep - Organics

Blank (1012108-BLK1)				Prepared & Anal	lyzed: 21-Jan-21		
GRO C6-C10	ND	10.0	mg/kg				
DRO>C10-C28	ND	10.0	mg/kg				
EXT DRO >C28-C36	ND	10.0	mg/kg				
Surrogate: 1-Chlorooctane	45.6		mg/kg	50.0	91.T	44.3-144	
Surrogate: 1-Chlorooctadecane	47.0		mg/kg	50.0	94.0	42.2-156	

Cardinal Laboratories

*=Accredited Analyte

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



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

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	

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		98.5	44.3-144			-
Surrogate: 1-Chlorooctadecane	51.5		mg/kg	50.0		103	42.2-156			
Batch 1012202 - General Prep - Organics										
Blank (1012202-BLK1)				Prepared &	Analyzed:	22-Jan-21				
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	40.4		mg/kg	50.0		80.8	44.3-144			
Surrogate: 1-Chlorooctadecane	42.1		mg/kg	50.0		84.2	42.2-156			
LCS (1012202-BS1)				Prepared &	Analyzed:	22-Jan-21				
GRO C6-C10	188	10,0	mg/kg	200		94.1	83.7-135			
DRO >C10-C28	189	10.0	mg/kg	200		94.6	80.4-133			
Total TPH C6-C28	377	10.0	mg/kg	400		94.3	83.1-133			
Surrogate: 1-Chlorooctane	40.4		mg/kg	50.0		80.7	44.3-144			
Surrogate: 1-Chlorooctadecane	42.6		mg/kg	50.0		85.2	42.2-156			

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remody for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including these for negligence ar any other course whatbooker 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 libitle for incidental or consequential damage including, which limitation, basiness interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related in the performance of the services hereunder by Cardinal, regardless of whether su claim is based upon any of the allove stated reasons or intervise. Results relate only to the sample identified above. This report shall not be reproduced except in full with writer approval of Cardinal Jacontarias.

Celeg & Keine

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	Units	Spike	Source	%REC	%REC	RPD	RPD	Notor
Batch 1012202 Concel B	resurt	Linn	oma	Dever	Result	70KBC	Linns	KID .	Luna	Notes
Batch 1012202 - General Prep - Organics						-				
LCS Dup (1012202-BSD1)				Prepared &	Analyzed:	22-Jan-21				
GRO C6-C10	204	10.0	mg/kg	200		102	83.7-135	8.01	13.8	
DRO >C10-C28	200	10.0	mg/kg	200		99.8	80.4-133	5.38	22.1	
Total TPH C6-C28	403	10.0	mg/kg	400		101	83.1-133	6.70	17.7	
Surrogate: 1-Chlorooctane	43.1		mg/kg	50.0		86.1	44.3-144			
Surrogate: 1-Chlorooctadecane	43.6		mg/kg	50.0		87.1	42.2-156			

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Dameges. Cardinal's liability and clent's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by dient for analyses. All claims, including those for negligence as any other cause whethere were shall be deemed wered unless made in writing and received by Cardinal writin thirty (30) days after completion of the applicable service. In no event shall be deemed wered unless made in writing and received by Cardinal writin thirty (30) days after completion of the applicable service. In no event shall be deemed wered unless made in writing and received by Cardinal writin thirty (30) days after completion of the applicable service. In no event shall be deemed were of the services bereunder by Cardinal, regardless of whether su claims is based upon any of the above stated reastors or otherwise, Results relate only to the sample identified above. This report shall not be reproduced except in full writi writen approved of Cardinal toreatories.

Celey & Keine

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

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

Cardinal Laboratories

*=Accredited Analyte

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

Celling & Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

analyzes All claims including these for regigience and any service. In no event shall Craditional be liable for incidential or antifiates or successors arising out of or related to the perform Relinquished By: Relinquished By: Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Address: City: Authors Phone #: Project Name: Project Location: Counting Sampler Name: View Charling Sampler Name: View Charling FOR UAB USE ONLY FOR UAB USE ONLY FO	101 East Marland (575) 393-2326
Corrected Temp. °C	E I.D. Fax #: Project Owner: Project Owner: GROUNDWATER WASTEWATER SOIL	9, HODDS, NM 88240 FAX (575) 393-2476
e Condition CHECKED BY: Intrace Intractions of the above stated reasons or very or	OIL Company: Attn: Attn: Studge OTHER: ACID/BASE OTHER: ACID/BASE TRX #: Fax #: ICE / COOL OTHER: ACID/BASE ICE / COOL OTHER: ACID/BASE ICE / COOL	BILL TO
and anexe an Result:	Butter to COSE 255 m ////////////////////////////////////	ANALYS
one #: address: d Samples # 28 - Quilsada JR. acteria (only) Sample Condition of Intact Observed Temp. °C I ve II No Corrected Temp. °C		SIS REQUEST

Page 136 of 178

Page 44 of 47

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Apert	in Baller	P.O. #: Company:	0	ANALYSIS REQU	EST
City: Hobbs V Phone #:	State: U.U. Zip: Sy Fax #: Proiect Owner:	Q4/C Attn: Address: City:			
Project Name:	2	State: Zip:			
Project Location: becaus	mimo 28 Jr.	Phone #: Fax #:			
FOR LAB USE ONLY	(G)RAB OR (C)OMP. # CONTAINERS	WASTEWATER SOIL MATRIX OIL SLUDGE OTHER : ACID/BASE: PRESERV. ACID/BASE: PRESERV. OTHER : OTHER : OTHER :	TE TIME	BTEX	
12 Byg 12 Byg 12 Byg 14 Byg	0000000(G		11:34 11:34 11:34 11:34 11:34		
12 BSA			11:34 ///		
19 BSG	C. C.C.		11:42		
PLEASE NOTE: Liability and Damages Cardin analyses All claims including those for neglige service in no event shall Cardinal be liable for	mark lability and client's exclusive ternedy for any claim arising w ence and any other cause whatsoever shall be deemed warved u incidental consequential damages including without inniators in the data of consequential damages including wathout inniators	hether based in contract or tort, shall be limited to the amouness made in writing and received by Cardinal within 30 day business interruptions, loss of use or loss of profils incurrates of other based upon any of the above start as a divident such clears is based upon any of the above start.	unt paid by the client for the lys after completion of the applicable ed by client, its subsidianes. ated reasons or otherwise.		
Relinquished By: Relinquished By:	Times States Receive	amara Malaty	All Results are emailed. I REMARKS:	□ No Add'l Phone #: Please provide Email address:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other	Time: Observed Temp. °C	Sample Condition CHECKED BY: Cool Intact (Initials)	Turmaround Time:	Standard Bacteria (only) S Rush Cool Intact Cool Intact	ample Condition Observed Temp. °C

Page 137 of 178

IPS CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

0

rato

7

(575) 393-2326 Company Name: Apuchu Project Manager: R. Puchu	FAX (575) 393-2476	P.O. #	ANALYSIS F	
Address:	je we	Company:		
city: 2/05/05	State: WWZIP: 88 3410	Attn:		
Phone #:	Fax #:	Address:		
Project #:	Project Owner:	City:		
Project Name:	N	State: Zip:		
Project Location: Sichan	St dwi	Phone #:		
Sampler Name: Upse (Jus	SUPAR JE I MA	TRIX PRESERVI SAN	APLING	
	CTOMP RS ATER ER		TPH EX	
Lab I.D. Sampl	G)RAB OR ((# CONTAINER GROUNDWA' WASTEWATE	OIL SLUDGE OTHER : ACID/BASE: CE) COOL OTHER :	TIME CXFT BTE	
27 BSY	G G W S	0 s 0 A @ 0 1 20	1144 ///	
and Bush	700		11:48	
2 Bit	70		2.22 1/1/	
a7 844	° (۲) (۲)		0.36	
* 28 808 83	0		35:50	
× 28 28 28 × ×	<u> </u>			
PLEASE NOTE: Liability and Damages. Cardinal's liability analyses All claims including those for negligence and any service. In no event shall Cardinal be liable for incidential or	and client's exclusive temety for any client arising whener uses other cause whatsoever shall be deemed waived unless made consequental damages, including without limitation, business i	a in contrast or soft, analy ce annov como annova in writing and received by cardinal within 30 days literruptions, loss of use, or loss of profits incurred b server values of use and use and the above stated server values.	far campleton of the applicable y clent, its subsolares, reasons or otherwse.	
Relinquished By:	Date: A -21 Received By:	and Alah La	Verbal Result: Yes No Add'I Phone #: All Results are emailed. Please provide Email addres	¥5.
Relinquished By:	Date: Received By:	Sectment man	REMARKS:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C /.J Sampl Corrected Temp. °C Greated Temp. °C	Condition CHECKED BY: Intact (Initials)	Turnaround Time: Standard Bacteria Rush Cool Inta Thermometer ID #113	(only) Sample Condition act Observed Temp. °C
FORM-006 R 3.1 00/04/20	† Cardinal cannot accept ver	bal changes. Please email ch	anges to celey.keene@cardinallabsnm.com	

Page 46 of 47

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 ratories

(575) 393-2326	FAX (575) 393-2476			
Company Name: As the		BILL TO	ANALYSIS KE	
Project Manager: Bruch Bu	18.86	P.O. #:		
Address:		Company:		
city: & Hubbas	State: NUZip: 88240	Attn:		
Phone #:	Fax #:	Address:		
Project #:	Project Owner:	City:		
Project Name:		State: Zip:		
Project Location:	20 22	Phone #:		
Sampler Name:	25	Fax #:		
FOR LAB USE ONLY		X PRESERV. SAM	IPLING	
	RS TER ER		P _I f X	
Lab I.D. Sample		DGE ER : /BASE: COOL ER :	TE)	
ちょうころ	(G)RA # CON GROU WAST SOIL	ACID/	TIME CLEX B	
* 31 80% 86	011	oe	2:34	
	_			
PLEASE NOTE: Liability and Damages Gardinal's liability an analyses All clasms including those for negligence and any service in no event shall Cardinal be fable for incidential or	nd client's exclusive remedy for any claim arising whether based in to other cluse whatsoerver shall be deemed walved unless made as w consequential damages, including without limitation, business interra	contract or tort, shall be limited to the amount pa tring and received by Cardinal within 30 days aft ptions, loss of use or loss of profits incurred by	ad by the client for the ther completion of the applicable client, its subsidiaries.	
artifiates or successors arising out of or related to the perform Relinquished By: Relinquished By:	Date: Received By:	a Dabby	Verbal Result: Yes No Add'l Phone #: All Results are emailed. Please provide Email address: REMARKS:	
	Time:			
Delivered By: (Circle One)	Observed Temp. °C /. 3 Sample C	act (Initials)	Turnaround Time: Standard A Bacteria (on Cool Intact	nly) Sample Condition Observed Temp. °C es
FORM-000 K 3.1 00/04/20		No YC,	Correction Factor None	Vo Corrected lemp. "C
	+ Cardinal cannot accept verbal	changes. Please email cha	anges to celey.keene@cardinallabsnm.com	

Page 139 of 178

U

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

Page 1 of 22

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/	mg/kg Analyzed By: GM		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/kg		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 DR	O >C28-C36	<10.0	10.0	01/27/2021	ND			
Surrogate: 1-Chlorooctane	85.7	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	88.0	% 42.2-15	6						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless mad

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

Chloride, SM4500CI-B	mg/ł	g	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/27/2021	ND	400	100	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte GRO C6-C10*	Result	Reporting Limit	Analyzed 01/27/2021	Method Blank	BS 196	% Recovery 98.0	True Value QC 200	RPD 9.43	Qualifier
Analyte GRO C6-C10* DRO >C10-C28*	Result <10.0 <10.0	Reporting Limit 10.0 10.0	Analyzed 01/27/2021 01/27/2021	Method Blank ND ND	BS 196 212	% Recovery 98.0 106	True Value QC 200 200	RPD 9.43 5.08	Qualifier

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	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	
	0.000	0.000	04/07/0004	ND					
Total BLEX	<0.300	0.300	01/2//2021	ND					

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

Chloride, SM4500CI-B	mg/k	g	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Bla	BS nk	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	01/27/2021	ND	400	100	400	0.00	
TPH 8015M	mg/k	g	Analyze	ed 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 DRO) >C28-C36	<10.0	10.0	01/27/2021	ND			
Surrogate: 1-Chlorooctane	94.9 %	6 44.3-14	4						
Surrogate: 1-Chlorooctadecane	99.0 %	6 42.2-15	6						

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					

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

Chloride, SM4500CI-B	mg/	kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blar	nk 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 Blar	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 DR	O >C28-C36	<10.0	10.0 C)1/27/2021	ND			
Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane	93.5 9 97.6 9	% 44.3-14 % 42.2-15	4 6						

Project Number:	NONE GIVEN
Project Location:	NONE GIVEN
Sample ID: B 69 (H21019	0-05)
BTEX 8021B	mg/kg

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					

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	3-144						
Surrogate: 1-Chlorooctadecane	87.1	% 42.2	2-156						
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 Limi	t 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					

10.0

01/27/2021

ND

<10.0

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

EXT DRO >C28-C36

Chloride, SM4500CI-B	mg/	′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		Mathe d Diants	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	87.3	% 44.3-14	44						
Surrogate: 1-Chlorooctadecane	90.8	% 42.2-1	56						
Project Number:	NONE G	IVEN							
Project Location:	NONE G	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 (PID	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	
ТРН 8015М	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	01/27/2021	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 >C	28-C36	<10.0	10.0	01/27/2021	ND			
Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane	89.0 % 92.5 %	44.3-144 42.2-156							

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

hloride, SM4500CI-B mg/kg		kg	Analyzee	d 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	89.3 %	44.3-14	4	
Surrogate: 1-Chlorooctadecane	93.2 %	42.2-15	6	

Fax To: (575) 393-2432

Received: Reported: Project Name: Project Number: Project Location: Sample ID: B 73 (H210190-09)	01/26/20 01/28/20 GERONIN NONE GI NONE GI	21 21 10 #28 VEN VEN			Sampling Da Sampling Ty Sampling Co Sample Rece	e: 01/26/2021 be: Soil ndition: Cool & Intac ived By: Tamara Oldal		021 Intact Oldaker	:t iker		
BTEX 8021B	mg/	kg	Analyze	d By: MS							
Analyte	Result	Rep orting Limit	Analyzed	Method Blar	ık BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.050	0.050	01/27/2021	ND	2.02	101	2.00	6.65			
Toluene*	<0.050	0.050	01/27/2021	ND	1.94	97.2	2.00	7.49			
Ethylbenzene*	<0.050	0.050	01/27/2021	ND	1.90	94.8	2.00	8.16			
Total Xylenes*	<0.150	0.150	01/27/2021	ND	5.50	91.7	6.00	8.98			
Total BTEX	<0.300	0.300	01/27/2021	ND							
Surrogate: 4-Bromofluorobenzene (PID	99.8 %	6 73.3-129)								

hloride, SM4500CI-B mg/kg		g	Analyzed I	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	

	mg/k	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/27/2021	ND	196	98.0	200	9.43	
DRO >C10-C28*	<10.0	10.0	01/27/2021	ND	212	106	200	5.08	
EXT DRO >C28-C36	<10.0	10.0	01/27/2021	ND					
Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane	90.8 % 94.6 %	6 44.3-144 6 42.2-156	4 5						
		Fax	To: (575)) 393-2432					
				Sar	npling Da	nte:	01/26/2 Soil	2021	
Received:	01/26/202	21		Sar	npling Co	ondition:	Cool & Intact		
Reported: Project Name:	01/28/202 GERONIM	21 O #28		Sai	mple Rec	eived By:	Tamara	Oldaker	
Project Number: Project Location: Sample ID: B 74 (H210190)	NONE GI NONE GI	/EN /EN							
Project Number: Project Location: Sample ID: B 74 (H210190) BTEX 8021B	NONE GI\ NONE GI\ -10) mg/k	/EN /EN :9	Analyze	d By: MS					
Project Number: Project Location: Sample ID: B 74 (H210190) 3TEX 8021B Analyte	NONE GI NONE GI -10) mg/k Result	/EN /EN g Reporting Limit	Analyze Analyzed	d By: MS Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Project Number: Project Location: Sample ID: B 74 (H210190) BTEX 8021B Analyte Benzene*	NONE GI NONE GI -10) mg/k Result <0.050	/EN /EN .g Reporting Limit 0.050	Analyzed Analyzed 01/27/2021	d By: MS Method Blank ND	BS 2.02	% Recovery 101	True Value QC 2.00	RPD 6.65	Qualifier
Project Number: Project Location: Sample ID: B 74 (H210190) BTEX 8021B Analyte Benzene* Toluene*	NONE GI NONE GI -10) 	/EN /EN g Reporting Limit 0.050 0.050	Analyzed 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 OC 2.00 2.00	RPD 6.65 7.49	Qualifier
Project Number: Project Location: Sample ID: B 74 (H210190) BTEX 8021B Analyte Benzene* Toluene* Ethylbenzene*	NONE GI NONE GI -10) Result <0.050 <0.050	/EN /EN Reporting Limit 0.050 0.050 0.050	Analyzed Analyzed 01/27/2021 01/27/2021 01/27/2021	d By: MS Method Blank ND ND ND	BS 2.02 1.94 1.90	% Recovery 101 97.2 94.8	True Value OC 2.00 2.00 2.00	RPD 6.65 7.49 8.16	Qualifier
Project Number: Project Location: Sample ID: B 74 (H210190) BTEX 8021B Analyte Benzene* Toluene* Ethylbenzene* Total Xylenes*	NONE GIV NONE GIV -10) Result <0.050 <0.050 <0.050 <0.050 <0.150	/EN /EN g Reporting Limit 0.050 0.050 0.050 0.150	Analyzed Analyzed 01/27/2021 01/27/2021 01/27/2021	d By: MS Method Blank ND ND ND ND	BS 2.02 1.94 1.90 5.50	% Recovery 101 97.2 94.8 91.7	True Value QC 2.00 2.00 2.00 6.00	RPD 6.65 7.49 8.16 8.98	Qualifier

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	01/27/2021	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Reporting I Analyze	Limit Mo d	ethod Blank	BS %	Recovery	True Val	ue QC RP	D Qualifier	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	
EXT DRO >C28-C36	<10.0	10.0	01/27/2021	ND					
Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane	87.5 % 91.1 %	6 44.3-14 6 42.2-15	14 6						
		Fax	(To: (575)) 393-2432					
				Sa	ampling Da	ate:	01/26/2	2021	
				Sa	ampling Ty	vpe:	Soil		
Received:	01/26/202	21		S	ampling Co	ondition:	Cool &	Intact	
Reported:	01/28/20	21		S	ample Rec	eived By:	Tamara	Oldaker	
Project Name:	GERONIM	10 #28							
Project Number:	NONE GIV	/EN							
Project Location:	NONE GIV	/EN							
Sample ID: B 75 (H210190-	11)								
BTEX 8021B Analyte	mg/l Result	<g< b=""> Reporting Limit</g<>	Analyze 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	
Total BTEX	<0.300	0.300	01/27/2021	ND					

.

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

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		7600	16.0	01/27/2021	ND	400	100	400	0.00	
TPH 8015M		mg/k	g	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-Chloroocta	ine	86.3 %	6 44.3-144							
Surrogate: 1-Chlorooctd	idecane	89.9 % Fax	6 42.2-156							
Received: Reported: Project Name: Project Numbe Project Locatio	01/26/2021 01/28/2021 GERONIMO #28 r: NONE GIVEN n:NONE GIVEN	To: -	(575) 393-2432	Sampling Da Sampling Ty	ite: pe:		Samplin Sample	g Condition: Received By:	01/2 Soil Cool Tam	6/2021 & Intact ara Oldaker
Sample ID: B 76 (F	4210190-12)	ma/k	a	Analyze	d Bv: 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	29						
Chloride, SM4500CI-B	mg/I	٢g	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	01/27/2021	ND	400	100	400	0.00	
TPH 8015M	mg/I	٢g	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 %	6 44.3-14 6 42.2-15	4 6						
		Fax	To: (575) 393-2432					
				Sar	npling Da	ite:	01/26/2	2021	
				Sar	npling Ty	vpe:	Soil		

BTEX 8021B	mg/kg	Analyzed By: MS	
Sample ID: B 77 (H21019	90-13)		
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

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 %	6 73.3- ¹²⁹							
Chloride, SM4500CI-B	mg/k	g	Analyzed	l 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/k	g	Analyzed	l 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 %	5 44.3-144 5 42.2-156							
		Fax 7	o: (575)) 393-2432					
				Sa Sa	mpling Da	ate: me:	01/26/2 Soil	2021	
Received:	01/26/202	21		Sa	mpling Co	ondition:	Cool &	Intact	
Reported:	01/28/202	21		Sa	imple Rec	eived By:	Tamara	Oldaker	
Project Name:	GERONIN	0 #28							
Project Number:	NONE GIV	/EN							
Sample ID: B 78 (H210190-14)									
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	01/27/2021	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 %	<i>5</i> 73.3-129							
Chloride, SM4500CI-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	
PH 8015M	mg	/kg	Analyze	ed By: MS					
urrogate: 1-Chlorooctane	97.4	% 44.3-14 % 42.2-14	44 56						
Surrogate: 1-Chlorooctadecane	101	70 72.2 12							
urrogate: 1-Chlorooctadecane	101	Fax	x To: (575) 393-2432					
urrogate: 1-Chlorooctadecane	101	Fa	x To: (575) 393-2432 Sa	mpling D	ate:	01/26	/2021	
urrogate: 1-Chlorooctadecane 	101 01/28/2021G pol & Intact	Fax Fax ERONIMO #28 Reported	x To: (575) 393-2432 Sa Sampling T <u>y</u>	mpling D ype:Sam	ate: pling Condition	01/26. n:Sample Receiv	/2021 /ed By:	
Received: 01/26/2021 Tamara OldakerSoilCo Project Name: Project Number: Project Location: Sample ID: B 79 (H210190-	101 01/28/2021G 00l & Intact NONE G NONE G	Fax Fax Fax Fax Fax Fax Fax Fax Fax Fax	x To: (575) 393-2432 Sa Sampling T <u>y</u>	mpling D ype:Sam	ate: oling Condition	01/26. n:Sample Receiv	/2021 /ed By:	
Received: 01/26/2021 Tamara OldakerSoilCo Project Name: Project Number: Project Location: Sample ID: B 79 (H210190-	101 01/28/2021G pol & Intact NONE G NONE G 15) mg.	Fax Fax Fax Fax Fax Fax Fax Fax Fax Fax	x To: (575 I: Analyze) 393-2432 Sa Sampling T <u>y</u>	mpling D ype:Samj	ate: bling Condition	01/26	/2021 ved By:	
Received: 01/26/2021 Tamara OldakerSoilCo Project Name: Project Number: Project Location: ample ID: B 79 (H210190- TEX 8021B Analyte	101 01/28/2021G 001 & Intact NONE G NONE G 15) mg. Result	Fax Fax Fax Fax Fax Fax Fax Fax Fax Fax	x To: (575 I: Analyzed) 393-2432 Sa Sampling Ty ed By: MS	mpling D ype:Samj BS	ate: oling Condition	01/26, n:Sample Receiv	/2021 /ed By:	Qualifier
Received: 01/26/2021 Tamara OldakerSoilCo Project Name: Project Number: Project Location: ample ID: B 79 (H210190- TEX 8021B Analyte Benzene*	101 01/28/2021G 001 & Intact NONE G NONE G 15) mg. Result <0.050	Fax Fax Fax Fax Fax Fax Fax Reported IVEN IVEN IVEN IVEN IVEN IVEN IVEN IVEN	x To: (575 I: Analyzed 01/27/2021) 393-2432 Sa Sampling Ty ed By: MS Method Blank ND	mpling D ype:Samp BS 2.02	ate: bling Condition % Recovery 101	01/26. n:Sample Receiv True Value QC 2.00	/2021 /ed By: 	Qualifier
Received: 01/26/2021 Tamara OldakerSoilCo Project Name: Project Number: Project Location: ample ID: B 79 (H210190- TEX 8021B Analyte Benzene*	101 01/28/2021G 001 & Intact NONE G NONE G 15) mg. Result <0.050 <0.050	Fax Fax Fax Fax ERONIMO #28 Reported IVEN IVEN IVEN IVEN IVEN IVEN 0.050 0.050	x To: (575 1: Analyzed 01/27/2021 01/27/2021) 393-2432 Sampling Ty ed By: MS Method Blank ND ND	mpling D ype:Sam BS 2.02 1.94	ate: bling Condition % Recovery 101 97.2	01/26. n:Sample Receiv True Value QC 2.00 2.00	/2021 /ed By: RPD 6.65 7.49	Qualifier
Received: 01/26/2021 Tamara OldakerSoilCo Project Name: Project Number: Project Location: ample ID: B 79 (H210190- TEX 8021B Analyte Benzene*	101 01/28/2021G 001 & Intact NONE G NONE G 15) mg. Result <0.050 <0.050 <0.050	Fax Fax ERONIMO #28 Reported IVEN IVEN /kg Reporting Limit 0.050 0.050 0.050	x To: (575 4: Analyzed 01/27/2021 01/27/2021 01/27/2021) 393-2432 Sampling Ty sed By: MS Method Blank ND ND ND	BS 2.02 1.94 1.90	ate: bling Condition % Recovery 101 97.2 94.8	01/26. n:Sample Receiv True Value QC 2.00 2.00 2.00	/2021 /ed By: RPD 6.65 7.49 8.16	Qualifier
Received: 01/26/2021 Tamara OldakerSoilCo Project Name: Project Number: Project Location: Sample ID: B 79 (H210190- STEX 8021B Analyte Benzene* Toluene* Ethylbenzene* Total Xylenes*	101 01/28/2021G 001 & Intact NONE G NONE G 15) mg. Result <0.050 <0.050 <0.050 <0.050	Fax Fax Fax Fax Fax Reported IVEN IVEN IVEN IVEN IVEN 0.050 0.050 0.050 0.150	x To: (575 Analyzed 01/27/2021 01/27/2021 01/27/2021 01/27/2021) 393-2432 Sampling Ty Sampling Ty Method Blank ND ND ND ND	mpling D ype:Samp 2.02 1.94 1.90 5.50	ate: bling Condition % Recovery 101 97.2 94.8 91.7	01/26. n:Sample Receiv True Value QC 2.00 2.00 2.00 6.00	/2021 /ed By: 6.65 7.49 8.16 8.98	Qualifier

			Analyzed	Method Blan	k 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	0 100	% 73.3-129	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blan	BS k	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	01/27/2021	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane	97.6 102	5% 44.3-14 % 42.2-15	74 76						
		Fax	c To: (57	5) 393-2432	Compliant		01/0/	/2021	
					Sampling I Sampling 1	Date: Type:	01/26 Soil	/2021	
Received:	01/26/2	2021			Sampling (Condition:	Cool 8	& Intact	
Reported: Project Name: Project Number: Project Location: Sample ID: B 80 (H210190-16)	01/28/2 GERON NONE 0 NONE 0	2021 IMO #28 GIVEN GIVEN			Sample Re	eceived By:	Tamai	ra Oldaker	
BTEX 8021B	mg	ı∕kg	Analyz	ed By: MS					
Analyte	Result	Rep orting Limit	Analyzed	Method Bla	nk 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 %	73.3-1	29						
Chloride, SM4500CI-B	mg/kg	I	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	
TPH 8015M	mg/kg	1	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					
Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane	85.2 % 89.1 %	5 44.3-14 5 42.2-15	14						
0									
		Fax	(To: (575)) 393-2432					
				Sar	npling Da	ate:	01/26/2 Soil	2021	
Received:	01/26/202	21		Sar	npling Ty	pe: ondition:	Cool &	Intact	
Reported: Project Name: Project Number: Project Location: Sample ID: B 81 (H210190-	01/28/202 GERONIM NONE GIN NONE GIN	21 10 #28 /EN /EN		Sar	nple Rec	eived By:	Tamara	Oldaker	
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	01/27/2021	ND	2.02	101	2.00	6.65	
Toluene*	< 0.050	0.050	01/27/2021	ND	1.94	97.2	2.00	7.49	
Ethylbenzene*	<0.050	0.050	01/27/2021	ND	1.90	94.8	2.00	8.16	
Total Xylenes*	<0.150	0.150	01/27/2021	ND	5.50	91.7	6.00	8.98	
Total BTEX	<0.300	0.300	01/27/2021	ND					
Surrogate: 4-Bromofluorobenzene ((PID 97.6 %	6 73.3-	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	1440	16.0	01/27/2021	ND	400	100	400	0.00	
TPH 8015M	mg/k	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	01/27/2021	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	84.2 % 88.4 %	5 44.3-14 5 42.2-15	14 56						

.

		Fax	To: (575) 393-2432					
5	01/07/00			S S	ampling Da ampling Ty	ite: pe:	01/26/2 Soil	2021	
Received:	01/26/20	121		S	ampling Co	indition:	Cool &	Intact	
Reported:	01/28/20	21		S	ample Reco	eived By:	Tamara	Oldaker	
Project Name:	GERONIN	//O #28							
Project Number:	NONE GI								
Sample ID: B 82 (H210190-	18)	VEIN							
BTFX 8021B	10) ma/	ka	Analyze	d Bv: 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 0/	07.2	2.00	7 /0	
Toldene	<0.000	0.000	01/2//2021	ND	1.74	77.2	2.00	7.47	
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 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	01/27/2021	ND	400	100	400	0.00	
ТРН 8015М	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	94.5 9	<i>44.3-14</i>	4						
surrogale. 1-Uniorooctadecane	98.4 %	42.2-13	U						

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

Z	2	
	5	
DO	R	
Ind	D	
	Z	
IP	AL	

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

Company Name: ¥	75) 393-2326 FAX (575) 39	3-2476	BILL TO
Project Manager:	Price Relier	P.0). #:
Address:		Cor	mpany:
city: Hobbs	State:	VW Zip: 82 240 Atta	n
Phone #:	Fax #:	Add	dress:
Project #:	Project	Owner: City	y:
Project Name:		Sta	ite: Zip:
Project Location:	harmo a	Pho Pho	one #:
Sampler Name:		Fax	x #:
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLIN
Lab I.D.	Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :	ACID/BASE: COL OTHER : DATE
()	S	CIII	1 1 120
2	16		
2 Cu			
5, 1 B	69		
68			
2 PS			
98	13	2	
PLEASE NOTE: Liability and Du analyses. All claims. including th	amages. Cardinat's lability and client's exclusive in to see for negligence and any other cause whatnow	medy for any claim anising whether based in contract or for an shall be deemed waived unless made in writing and room	rt, shall be limited to the Errount paid sived by Cardinal within 30 days after dues or loss of nonfits locumed by Cit
Relinquished By:	ut of or related to the performance of services here	under by Cardinal, regardless of whether such claim is bas (a) Received By:	and upon any of the above stabed read
Relinquished By:	Time: Date: Time:	25 Received By:	Makyal
Delivered By: (Sampler - UPS -	(Circle One) Bus - Other: ハタ	Sample Condition Cool Intact	(Initials)
Sampler - UPS -	Bus - Other: 5,8	tt/13 Pres Pres	TO-

Lubitity and Damages. Condition is balay and clerch exclusive eminicity whether based in contract or tex, shall be instead to the amount, paid by are usen, to a weight and use of the applicable is an avail Cardinal by the cardinal or grant shall be instead by the cardinal or consequences that be derived by the cardinal, these diverses an avail Cardinal by the cardinal, regardless of whether such claim is based upon any of the above shall be cardinal or consequences of services because of an event by Cardinal, regardless of whether such claim is based upon any of the above shall be cardinal or consequences of whether such claim is based upon any of the above shall rescure by clerch. The difference of the material of the performance of services herewarder by Cardinal, regardless of whether such claim is based upon any of the above shall rescure by clerch. The difference of the material of the above shall rescure by clerch. The difference of the above shall rescure by clerch and rescure or otherweak. Received By: Time: Time: No Add'l Phone #: By: (Circle One) Observed Temp. °C S & Sample Condition CHECKED BY: Turnaround Time: Standard Bacterial By: (Circle One) Observed Temp. °C S & Sample Condition CHECKED BY: Turnaround Time: Standard Bacterial	15 B79 16 B20 17 B21 18 B20 C 1 1 1 1 1 1 26 3:08 C 1 1 1 1 1 1 1 26 3:08 C 1 1 1 1 1 1 1 26 3:08 C 1 1 1 1 1 1 1 1 26 3:08 C 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 BUL CI I I ON CALCO 132 / 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B) RAB OR (COMP. Sample I.D. Sample I.D. Sample I.D. SROUNDWATER VASTEWATER SOIL DIL SLUDGE DTHER: CD/ COOL DTHER: CD/ COOL DTHER: CD/ COOL DTHER: CD/ COOL DTHER: CD/ COOL DTHER: CD/ COOL	Name: No Director Ar, Fax#:	ame: Project Owner: City: State: Zip:	Fax #: Address:	Toppes State: JJ. J. Zip: 88940 Attn:	Company:	Name: Appreha BILLIU MINILIUIS	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
Thermoneter ID #113	3:08 / / / / / / / / / / / / / / / / / / /	1:32 / / / / / / / / / / / / / / / / / / /	EXT TPH BTEX							ANALYSIS REOLIES

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

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:

		APACHE C BRUCE BA 2350 W. M HOBBS NM	ORP - Hobbs Ker 1Arland Blvd. 1, 88240			
		Fax To:	(575) 393-2432			
Received:	02/16/2021			Sampling Date:	02/12/2021	
Reported:	02/17/2021			Sampling Type:	Soil	
Project Name:	GERONIMO #28			Sampling Condition:	** (See Notes)	
Project Number:	NONE GIVEN			Sample Received By:	Tamara Oldaker	
Project Location:	NONE GIVEN			Cons	i annar a' olicianci	

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	V2. 0 1V

Cardinal Laboratories

*=Accredited Analyte

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

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

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's fability and client's exclusive remedy for any chain arising, whether lased in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed walved 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 inddental 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 Cerdinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keen

Celey D. Keene, Lab Director/Quality Manager

ab ARDINAL oratories

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



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. Keens

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

		APACHE C	ORP - HOBBS			
		BRUCE BA	KER			
		2350 W. M	ARLAND BLVD.			
		HOBBS NN	4, 88240			
		Fax To:	(575) 393-2432			
Developed	and the second					
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				i anara 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	

Cardinal Laboratories

*=Accredited Analyte

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

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
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

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Candinat's fability and client's exclusive remedy for any chain arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed walved 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 indential or consequential domages, including, without limitation, business interruptions, loss of uso, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keen

Celey D. Keene, Lab Director/Quality Manager

-aboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

PLEASE NOTE: Liability and Damages, Cardinal's & analyses All claims including these for negligence a service. In no event shall Cardinal the liable for mode affiliates or successors areign out of or reliated to the Relinquished By: Relinquished By: Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Project Manager: <i>Bruck</i> Address: City: <i>Hobb</i> Phone #: Project Name: Project Location: <i>Gera</i> Sampler Name: <i>Sole</i> Sampler Name: <i>Sole</i> FOR LAB USE ONLY FOR LAB USE ONLY Lab I.D. San Hallo 382 Hallo 382 July 18	Company Name: Apere
ablity and client's exclusive remedy for any cliain ansing whether base not any other reause whatsoever shall be deem cliain ansing whether base nata or consequential damages, including without limitation, business in performance of services hereunder by Cardinal, regardless of whether Date: Received By: Date: Received By: Time: Observed Temp. °C D. & Sample Cool Corrected Temp. °C	Project Owner: Fax #: Fax #: F	ht.
In contract or fort, shall be limited to the amount pad by the client for the invertige and received by Cardinal within 30 days after completion of the applicable neurophons, loss of use, or loss of profis incurred by client, its subsidiaries, it is subsidiaris, it is subsidiaries, it is subsidiaries, it is subsid	OIL OIL SLUDGE OTHER: ACID/BASE: Phone #: Fax #: City: State: PRESERV. OTHER: DATE TIME DATE TIME 10:30 City: Sampling DATE TIME	BILL TO
S C No Add'l Phone #: Please provide Email address: Worl Restars Bacteria (only) Sample Condition Rush Cool Intact Observed Temp		ANALYSIS REQUEST

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.	