



303 Veterans Airpark Lane Midland, TX 79705

Closure Report

September 12, 2023

Re: Loco Hills Water Trunk Line

Case: nAPP2213629900

On 5/11/2022 a release occurred due to external corrosion on a steel valve. The release (GPS: 32.829464, -103.982298) was contained on a lease pad and is located north of Loco Hills, New Mexico in unit letter M section 16 township 17S range 30E. The depth to groundwater was determined by utilizing data collected from a soil bore south of the release conducted on 8/2/2021. The soil bore was advanced to a depth of 121 feet and left open for 72 hours. The bore hole was gauged for the presence water and was dry to a depth of 121 feet. A remediation plan was submitted and approved by OCD.

The release area was excavated to depths of 6 inches to one foot. On 2/10/2023 final samples were collected in accordance with the OCD approved remediation plan. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Laboratory analysis indicated that table one standards for release greater than 100 feet to groundwater were not met for TPH at B4 and chlorides for B13-B19. Those area were further excavated to a total depth of 1 foot and final samples were collected in accordance with the OCD approved remediation plan and submitted to a commercial laboratory for analysis. All excavated soil was hauled to an OCD approved disposal facility and clean imported caliche was utilized to backfill the excavation and restore the lease pad.

The OCD rejected the closure report due to the sidewalls were not delineated to 600 mg/kg chlorides to define the edge of the release. The release area is on another operator's pad and the pad is next to a brine water station with open pits. Apache Corporation could not achieve the threshold of 600 mg/kg on the pad area due to background levels on the pad. On 8/7/2023 two samples were taken on the north and west pad areas adjacent to two other non-Apache Corporation operating pads. The samples collected were outside the release area and elevated above the release area. The samples provide evidence that background levels on the pad are above the 600 mg/kg chlorides and not caused by the current release.

Apache Corporation has completed remediation of the release area to below table one standards and respectfully request closure of the event nAPP2213629900.

Enclosed: C-141, Maps, Sample Data, Laboratory Results, and Photos

Submitted by.

Larry Baker

Environmental Technician Sr. Staff

larry.baker@apachecorp.com

Cell# 432-250-8384

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

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

Printed Name: Larry Baker Title: Environmental Tech Sr. Staff
 Signature: *Larry Baker* Date: 9/13/2023
 email: larry.baker@apachecorp.com Telephone: 432-818-1654

OCD Only

Received by: Scott Rodgers Date: 09/13/2023

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

Closure Approved by: *Scott Rodgers* Date: 02/06/2024
 Printed Name: Scott Rodgers Title: Environmental Specialist Adv.

Received by OCD: 9/13/2023 7:58:08 AM

FW: [EXTERNAL] The Oil Conservation Division (OCD) has approved the application, Application ID: 133087



Baker, Larry

To robert.hamlet@emnrd.nm.gov

Reply	Reply All	Forward	
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Tue 2/7/2023 7:46 AM

Mr. Hamlet,

Apache Corporation will be conducting final sampling on Thursday 2/9/2023 beginning at 9:00 a.m. Please let me know if you have any questions or wish to discuss. Thanks and have a good day.

BRUCE BAKER

ENVIRONMENTAL TECHNICIAN SR STAFF

direct 432-818-1654 | Cell 432-250-8384

APACHE CORPORATION

303 Veterans Airpark Lane
Midland, TX 79705
ApacheCorp.com | [LinkedIn](#) | [Facebook](#) | [Twitter](#) | [StockTwits](#) | [YouTube](#)
From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>**Sent:** Tuesday, November 22, 2022 9:32 AM**To:** Baker, Larry <Larry.Baker@apachecorp.com>**Subject:** [EXTERNAL] The Oil Conservation Division (OCD) has approved the application, Application ID: 133087

To whom it may concern (c/o Larry Baker for APACHE CORPORATION),

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2213629900, with the following conditions:

- **The Remediation Plan is Conditionally Approved. Samples must be analyzed for all constituents listed in Table I of [19.15.29.12](#) NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. The variance for 400 ft2 floor confirmation samples is approved. 5-point confirmation wall samples need to be collected every 200 ft2. The work will need to occur in 90 days after the work plan has been approved.**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,

Robert Hamlet

575-748-1283

Robert.Hamlet@emnrd.nm.gov**New Mexico Energy, Minerals and Natural Resources Department**

1220 South St. Francis Drive

Santa Fe, NM 87505

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From: OCDOnline@state.nm.us
To: [Baker, Larry](#)
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 189896
Date: Tuesday, June 27, 2023 9:48:40 AM

To whom it may concern (c/o Larry Baker for APACHE CORPORATION),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2213629900, for the following reasons:

- **The Closure Report is Denied. Please make sure all Edge/Sidewall samples are delineated to 600 mg/kg for chlorides to define the edge of the release.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 189896.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Robert Hamlet
575-748-1283
Robert.Hamlet@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

CAUTION: This email originated outside of Apache. **DO NOT CLICK** on links or attachments unless you know the content is safe and relevant to Apache business. If you are unsure about this message, click "Report Phish" in Outlook or send to phish@apachecorp.com

Hagerman Cutoff Rd

Goat Ropers Rd

Goat Ropers Rd

North Horizontal

West Horizontal

South Horizontal

East Horizontal

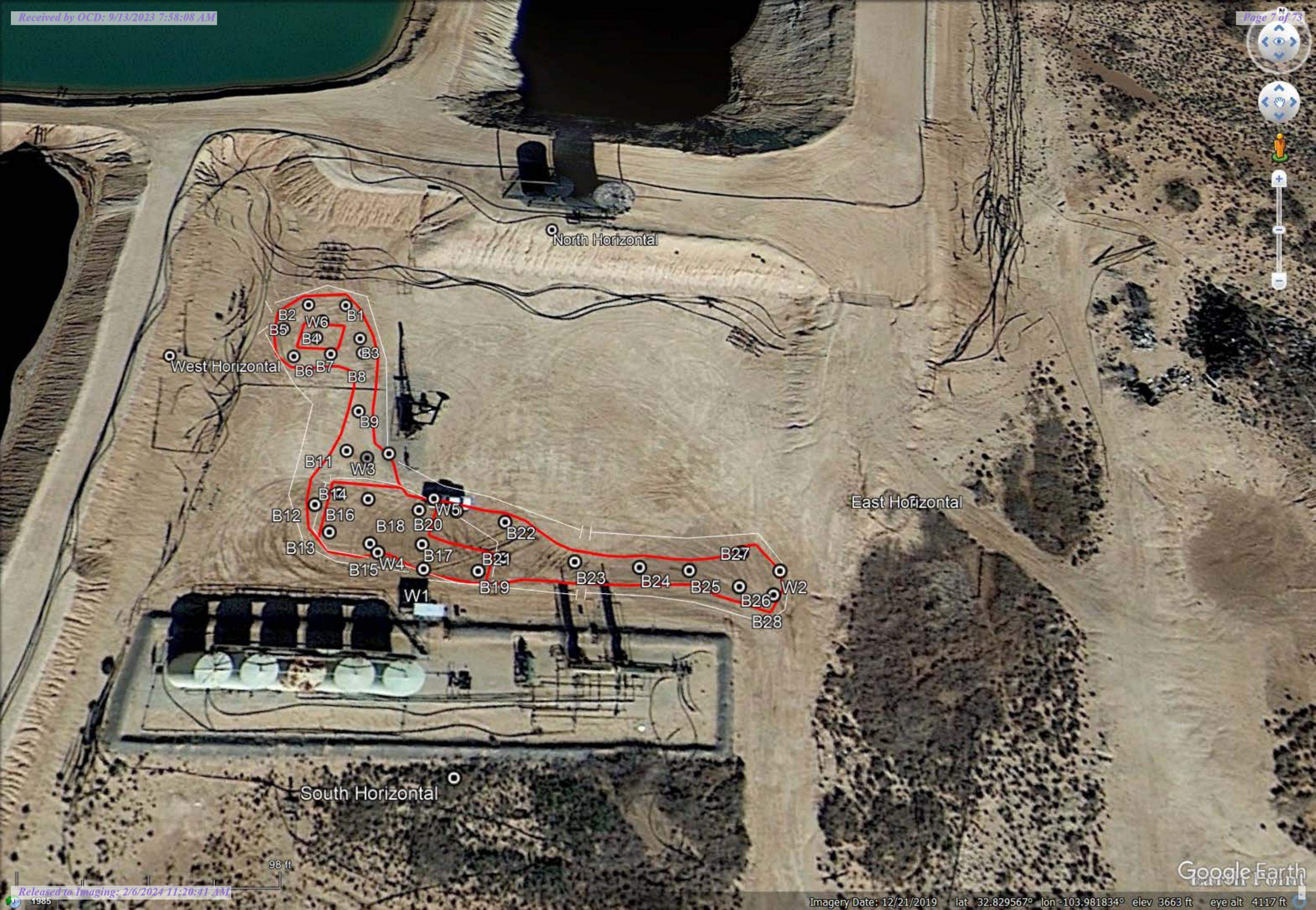
B2 B3 B7 B9 B16 W3 W1 B25 B24



Google Earth

Imagery Date: 12/21/2019 lat 32.829851° lon -103.981503° elev 3671 ft eye alt 6232 ft

558 ft



North Horizontal

West Horizontal

East Horizontal

South Horizontal



98 ft

Final Samples

Sample Date	Sample ID	Depth	Chloride Lab	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
2/10/2023	B1	6"	5,600	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8297588, -103.982361
2/10/2023	B2	6"	18,600	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8297636, -103.9824143
2/10/2023	B3	6"	13,600	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8297171, -103.9823201
2/10/2023	B4	6"	15,200	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	5590	2950	32.8296993, -103.9823945
2/20/2023	B4	1'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
2/10/2023	B5	6"	19,600	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8297092, -103.9824448
2/10/2023	B6	6"	14400	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8296672, -103.9824250
2/10/2023	B7	6"	10200	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8296796, -103.9823660
2/10/2023	B8	6"	6000	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8296872, -103.9823113
2/10/2023	B9	6"	5800	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8295928, -103.9822932
2/10/2023	B10	6"	13200	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	260	26.8	32.8295294, -103.9822600
2/10/2023	B11	6"	19400	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	490	67.6	32.8295289, -103.9822942
2/10/2023	B12	6"	10400	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8294528, -103.9823261
2/10/2023	B13	6"	28400	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8294168, -103.9822926
2/20/2023	B13	1'	1600									
2/10/2023	B14	6"	20000	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8294692, -103.9822969
2/20/2023	B14	1'	3320									

2/10/2023	B15	6"	25200	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8294058, -103.9822346
2/20/2023	B15	1'	1200									
2/10/2023	B16	6"	36800	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	50.7	<10.0	32.8294756, -103.9822507
2/20/2023	B16	1'	1710									
2/10/2023	B17	6"	30000	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8294024, -103.9821652
2/20/2023	B17	1'	1420									
2/10/2023	B18	6"	24,000	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8294537, -103.9821749
2/20/2023	B18	1'	2,520									
2/10/2023	B19	6"	26800	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	17.8	<10.0	32.8293875, -103.9820706
2/20/2023	B19	1'	1880									
2/10/2023	B20	6"	6000	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8294584, -103.9821340
2/10/2023	B21	6"	3680	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8294013, -103.9820458
2/10/2023	B22	6"	4080	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	36.8	<10.0	32.8294523, -103.9820451
2/10/2023	B23	1'	1320	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8294007, -103.9819348
2/10/2023	B24	1'	4280	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8294063, -103.9818433
2/10/2023	B25	1'	8480	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	74.3	13.1	32.8294190, -103.9817715
2/10/2023	B26	1'	6480	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8293906, -103.9817058
2/10/2023	B27	1'	9730	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	220	62.9	32.8294300, -103.9817035
2/10/2023	B28	1'	2400	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8293852, -103.9816418
2/10/2023	W1	0-6"	1480	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8293635, -103.9821517

2/10/2023	W2	0-1'	736	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8294255, -103.9816582
2/10/2023	W3	0-6"	1040	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8295306, -103.9822399
2/20/2023	W4	0-1'	2920	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8293948, -103.9822168
2/20/2023	W5	0-1'	3240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8294928, -103.9821182
2/20/2023	W6	0-1'	2760	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.8294756, -103.9823814
5/17/2022	South Horizontal	S	336	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
5/17/2022	East Horizontal	S	352	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
8/7/2023	North Horizontal	S	8160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.829885, -103.982042
8/7/2023	West Horizontal	S	7760	<0.050	<0.050	<0.050	<0.150	<0.300	17.8	3980	1070	32.829641, -103.982601



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

February 16, 2023

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: LOCO HILLS DISPOSAL WATER TRUNK LINE

Enclosed are the results of analyses for samples received by the laboratory on 02/10/23 7:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/09/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NONE GIVEN		

Sample ID: B 1 @ 6" (H230618-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/15/2023	ND	2.11	106	2.00	0.890	
Toluene*	<0.050	0.050	02/15/2023	ND	2.08	104	2.00	0.772	
Ethylbenzene*	<0.050	0.050	02/15/2023	ND	2.04	102	2.00	0.768	
Total Xylenes*	<0.150	0.150	02/15/2023	ND	6.25	104	6.00	0.184	
Total BTEX	<0.300	0.300	02/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	02/14/2023	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	02/13/2023	ND	195	97.4	200	1.48	
DRO >C10-C28*	<10.0	10.0	02/13/2023	ND	212	106	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	02/13/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/09/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NONE GIVEN		

Sample ID: B 2 @ 6" (H230618-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/15/2023	ND	2.11	106	2.00	0.890	
Toluene*	<0.050	0.050	02/15/2023	ND	2.08	104	2.00	0.772	
Ethylbenzene*	<0.050	0.050	02/15/2023	ND	2.04	102	2.00	0.768	
Total Xylenes*	<0.150	0.150	02/15/2023	ND	6.25	104	6.00	0.184	
Total BTEX	<0.300	0.300	02/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18600	16.0	02/14/2023	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	02/14/2023	ND	195	97.4	200	1.48	
DRO >C10-C28*	<10.0	10.0	02/14/2023	ND	212	106	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	02/14/2023	ND					

Surrogate: 1-Chlorooctane 96.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/09/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NONE GIVEN		

Sample ID: B 3 @ 6" (H230618-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/15/2023	ND	2.11	106	2.00	0.890	
Toluene*	<0.050	0.050	02/15/2023	ND	2.08	104	2.00	0.772	
Ethylbenzene*	<0.050	0.050	02/15/2023	ND	2.04	102	2.00	0.768	
Total Xylenes*	<0.150	0.150	02/15/2023	ND	6.25	104	6.00	0.184	
Total BTEX	<0.300	0.300	02/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13600	16.0	02/14/2023	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	02/14/2023	ND	195	97.4	200	1.48	
DRO >C10-C28*	<10.0	10.0	02/14/2023	ND	212	106	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	02/14/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/09/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NONE GIVEN		

Sample ID: B 4 @ 6" (H230618-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/15/2023	ND	2.11	106	2.00	0.890	
Toluene*	<0.050	0.050	02/15/2023	ND	2.08	104	2.00	0.772	
Ethylbenzene*	<0.050	0.050	02/15/2023	ND	2.04	102	2.00	0.768	
Total Xylenes*	<0.150	0.150	02/15/2023	ND	6.25	104	6.00	0.184	
Total BTEX	<0.300	0.300	02/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15200	16.0	02/14/2023	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	02/14/2023	ND	195	97.4	200	1.48	
DRO >C10-C28*	5590	10.0	02/14/2023	ND	212	106	200	1.05	
EXT DRO >C28-C36	2950	10.0	02/14/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 137 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/09/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NONE GIVEN		

Sample ID: B 5 @ 6" (H230618-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/15/2023	ND	2.11	106	2.00	0.890	
Toluene*	<0.050	0.050	02/15/2023	ND	2.08	104	2.00	0.772	
Ethylbenzene*	<0.050	0.050	02/15/2023	ND	2.04	102	2.00	0.768	
Total Xylenes*	<0.150	0.150	02/15/2023	ND	6.25	104	6.00	0.184	
Total BTEX	<0.300	0.300	02/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19600	16.0	02/14/2023	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	02/14/2023	ND	195	97.4	200	1.48	
DRO >C10-C28*	<10.0	10.0	02/14/2023	ND	212	106	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	02/14/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/09/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NONE GIVEN		

Sample ID: B 6 @ 6" (H230618-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/15/2023	ND	2.11	106	2.00	0.890	
Toluene*	<0.050	0.050	02/15/2023	ND	2.08	104	2.00	0.772	
Ethylbenzene*	<0.050	0.050	02/15/2023	ND	2.04	102	2.00	0.768	
Total Xylenes*	<0.150	0.150	02/15/2023	ND	6.25	104	6.00	0.184	
Total BTEX	<0.300	0.300	02/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14400	16.0	02/14/2023	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	02/14/2023	ND	195	97.4	200	1.48	
DRO >C10-C28*	<10.0	10.0	02/14/2023	ND	212	106	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	02/14/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/09/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NONE GIVEN		

Sample ID: B 7 @ 6" (H230618-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/15/2023	ND	2.11	106	2.00	0.890	
Toluene*	<0.050	0.050	02/15/2023	ND	2.08	104	2.00	0.772	
Ethylbenzene*	<0.050	0.050	02/15/2023	ND	2.04	102	2.00	0.768	
Total Xylenes*	<0.150	0.150	02/15/2023	ND	6.25	104	6.00	0.184	
Total BTEX	<0.300	0.300	02/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10200	16.0	02/14/2023	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	02/14/2023	ND	195	97.4	200	1.48	
DRO >C10-C28*	<10.0	10.0	02/14/2023	ND	212	106	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	02/14/2023	ND					

Surrogate: 1-Chlorooctane 96.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/09/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NONE GIVEN		

Sample ID: B 8 @ 6" (H230618-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/15/2023	ND	2.11	106	2.00	0.890	
Toluene*	<0.050	0.050	02/15/2023	ND	2.08	104	2.00	0.772	
Ethylbenzene*	<0.050	0.050	02/15/2023	ND	2.04	102	2.00	0.768	
Total Xylenes*	<0.150	0.150	02/15/2023	ND	6.25	104	6.00	0.184	
Total BTEX	<0.300	0.300	02/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	02/14/2023	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	02/14/2023	ND	195	97.4	200	1.48	
DRO >C10-C28*	<10.0	10.0	02/14/2023	ND	212	106	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	02/14/2023	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/09/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NONE GIVEN		

Sample ID: B 9 @ 6" (H230618-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/15/2023	ND	2.11	106	2.00	0.890	
Toluene*	<0.050	0.050	02/15/2023	ND	2.08	104	2.00	0.772	
Ethylbenzene*	<0.050	0.050	02/15/2023	ND	2.04	102	2.00	0.768	
Total Xylenes*	<0.150	0.150	02/15/2023	ND	6.25	104	6.00	0.184	
Total BTEX	<0.300	0.300	02/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5800	16.0	02/14/2023	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	02/14/2023	ND	195	97.4	200	1.48	
DRO >C10-C28*	<10.0	10.0	02/14/2023	ND	212	106	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	02/14/2023	ND					

Surrogate: 1-Chlorooctane 94.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/09/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NONE GIVEN		

Sample ID: B 10 @ 6" (H230618-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/15/2023	ND	2.11	106	2.00	0.890	
Toluene*	<0.050	0.050	02/15/2023	ND	2.08	104	2.00	0.772	
Ethylbenzene*	<0.050	0.050	02/15/2023	ND	2.04	102	2.00	0.768	
Total Xylenes*	<0.150	0.150	02/15/2023	ND	6.25	104	6.00	0.184	
Total BTEX	<0.300	0.300	02/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13200	16.0	02/14/2023	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	02/14/2023	ND	195	97.4	200	1.48	
DRO >C10-C28*	260	10.0	02/14/2023	ND	212	106	200	1.05	
EXT DRO >C28-C36	26.8	10.0	02/14/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/09/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NONE GIVEN		

Sample ID: B 11 @ 6" (H230618-11)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/15/2023	ND	2.11	106	2.00	0.890	
Toluene*	<0.050	0.050	02/15/2023	ND	2.08	104	2.00	0.772	
Ethylbenzene*	<0.050	0.050	02/15/2023	ND	2.04	102	2.00	0.768	
Total Xylenes*	<0.150	0.150	02/15/2023	ND	6.25	104	6.00	0.184	
Total BTEX	<0.300	0.300	02/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19400	16.0	02/14/2023	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	02/14/2023	ND	195	97.4	200	1.48	
DRO >C10-C28*	490	10.0	02/14/2023	ND	212	106	200	1.05	
EXT DRO >C28-C36	67.6	10.0	02/14/2023	ND					

Surrogate: 1-Chlorooctane 95.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/09/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NONE GIVEN		

Sample ID: B 12 @ 6" (H230618-12)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/15/2023	ND	2.11	106	2.00	0.890	
Toluene*	<0.050	0.050	02/15/2023	ND	2.08	104	2.00	0.772	
Ethylbenzene*	<0.050	0.050	02/15/2023	ND	2.04	102	2.00	0.768	
Total Xylenes*	<0.150	0.150	02/15/2023	ND	6.25	104	6.00	0.184	
Total BTEX	<0.300	0.300	02/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10400	16.0	02/14/2023	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	02/14/2023	ND	195	97.4	200	1.48	
DRO >C10-C28*	<10.0	10.0	02/14/2023	ND	212	106	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	02/14/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/09/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NONE GIVEN		

Sample ID: B 13 @ 6" (H230618-13)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/15/2023	ND	2.11	106	2.00	0.890	
Toluene*	<0.050	0.050	02/15/2023	ND	2.08	104	2.00	0.772	
Ethylbenzene*	<0.050	0.050	02/15/2023	ND	2.04	102	2.00	0.768	
Total Xylenes*	<0.150	0.150	02/15/2023	ND	6.25	104	6.00	0.184	
Total BTEX	<0.300	0.300	02/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	28400	16.0	02/14/2023	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	02/14/2023	ND	195	97.4	200	1.48	
DRO >C10-C28*	<10.0	10.0	02/14/2023	ND	212	106	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	02/14/2023	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/09/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NONE GIVEN		

Sample ID: B 14 @ 6" (H230618-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/15/2023	ND	2.11	106	2.00	0.890	
Toluene*	<0.050	0.050	02/15/2023	ND	2.08	104	2.00	0.772	
Ethylbenzene*	<0.050	0.050	02/15/2023	ND	2.04	102	2.00	0.768	
Total Xylenes*	<0.150	0.150	02/15/2023	ND	6.25	104	6.00	0.184	
Total BTEX	<0.300	0.300	02/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20000	16.0	02/14/2023	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	02/14/2023	ND	195	97.4	200	1.48	
DRO >C10-C28*	<10.0	10.0	02/14/2023	ND	212	106	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	02/14/2023	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/09/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NONE GIVEN		

Sample ID: B 15 @ 6" (H230618-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/15/2023	ND	2.11	106	2.00	0.890	
Toluene*	<0.050	0.050	02/15/2023	ND	2.08	104	2.00	0.772	
Ethylbenzene*	<0.050	0.050	02/15/2023	ND	2.04	102	2.00	0.768	
Total Xylenes*	<0.150	0.150	02/15/2023	ND	6.25	104	6.00	0.184	
Total BTEX	<0.300	0.300	02/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	25200	16.0	02/14/2023	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	02/14/2023	ND	195	97.4	200	1.48	
DRO >C10-C28*	<10.0	10.0	02/14/2023	ND	212	106	200	1.05	
EXT DRO >C28-C36	<10.0	10.0	02/14/2023	ND					

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/09/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NONE GIVEN		

Sample ID: B 16 @ 6" (H230618-16)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/15/2023	ND	2.12	106	2.00	2.31	
Toluene*	<0.050	0.050	02/15/2023	ND	2.10	105	2.00	4.04	
Ethylbenzene*	<0.050	0.050	02/15/2023	ND	2.08	104	2.00	2.91	
Total Xylenes*	<0.150	0.150	02/15/2023	ND	6.29	105	6.00	2.85	
Total BTEX	<0.300	0.300	02/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	36800	16.0	02/14/2023	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	02/14/2023	ND	196	98.2	200	2.79	
DRO >C10-C28*	50.7	10.0	02/14/2023	ND	184	92.2	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	02/14/2023	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/09/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NONE GIVEN		

Sample ID: B 17 @ 6" (H230618-17)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/15/2023	ND	2.12	106	2.00	2.31	
Toluene*	<0.050	0.050	02/15/2023	ND	2.10	105	2.00	4.04	
Ethylbenzene*	<0.050	0.050	02/15/2023	ND	2.08	104	2.00	2.91	
Total Xylenes*	<0.150	0.150	02/15/2023	ND	6.29	105	6.00	2.85	
Total BTEX	<0.300	0.300	02/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	30000	16.0	02/14/2023	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	02/14/2023	ND	196	98.2	200	2.79	
DRO >C10-C28*	<10.0	10.0	02/14/2023	ND	184	92.2	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	02/14/2023	ND					

Surrogate: 1-Chlorooctane 96.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/09/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NONE GIVEN		

Sample ID: B 18 @ 6" (H230618-18)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/15/2023	ND	2.12	106	2.00	2.31	
Toluene*	<0.050	0.050	02/15/2023	ND	2.10	105	2.00	4.04	
Ethylbenzene*	<0.050	0.050	02/15/2023	ND	2.08	104	2.00	2.91	
Total Xylenes*	<0.150	0.150	02/15/2023	ND	6.29	105	6.00	2.85	
Total BTEX	<0.300	0.300	02/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24000	16.0	02/14/2023	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	02/14/2023	ND	196	98.2	200	2.79	
DRO >C10-C28*	<10.0	10.0	02/14/2023	ND	184	92.2	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	02/14/2023	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/09/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NONE GIVEN		

Sample ID: B 19 @ 6" (H230618-19)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/15/2023	ND	2.12	106	2.00	2.31	
Toluene*	<0.050	0.050	02/15/2023	ND	2.10	105	2.00	4.04	
Ethylbenzene*	<0.050	0.050	02/15/2023	ND	2.08	104	2.00	2.91	
Total Xylenes*	<0.150	0.150	02/15/2023	ND	6.29	105	6.00	2.85	
Total BTEX	<0.300	0.300	02/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	26800	16.0	02/14/2023	ND	416	104	400	7.41	QM-07

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2023	ND	196	98.2	200	2.79	
DRO >C10-C28*	17.8	10.0	02/14/2023	ND	184	92.2	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	02/14/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/09/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NONE GIVEN		

Sample ID: B 20 @ 6" (H230618-20)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/15/2023	ND	2.12	106	2.00	2.31	
Toluene*	<0.050	0.050	02/15/2023	ND	2.10	105	2.00	4.04	
Ethylbenzene*	<0.050	0.050	02/15/2023	ND	2.08	104	2.00	2.91	
Total Xylenes*	<0.150	0.150	02/15/2023	ND	6.29	105	6.00	2.85	
Total BTEX	<0.300	0.300	02/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	02/14/2023	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2023	ND	196	98.2	200	2.79	
DRO >C10-C28*	<10.0	10.0	02/14/2023	ND	184	92.2	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	02/14/2023	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/09/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NONE GIVEN		

Sample ID: B 21 @ 6" (H230618-21)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/15/2023	ND	2.12	106	2.00	2.31		
Toluene*	<0.050	0.050	02/15/2023	ND	2.10	105	2.00	4.04		
Ethylbenzene*	<0.050	0.050	02/15/2023	ND	2.08	104	2.00	2.91		
Total Xylenes*	<0.150	0.150	02/15/2023	ND	6.29	105	6.00	2.85		
Total BTEX	<0.300	0.300	02/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3680	16.0	02/14/2023	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/14/2023	ND	196	98.2	200	2.79		
DRO >C10-C28*	<10.0	10.0	02/14/2023	ND	184	92.2	200	1.25		
EXT DRO >C28-C36	<10.0	10.0	02/14/2023	ND						

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/09/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NONE GIVEN		

Sample ID: B 22 @ 6" (H230618-22)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/15/2023	ND	2.12	106	2.00	2.31	
Toluene*	<0.050	0.050	02/15/2023	ND	2.10	105	2.00	4.04	
Ethylbenzene*	<0.050	0.050	02/15/2023	ND	2.08	104	2.00	2.91	
Total Xylenes*	<0.150	0.150	02/15/2023	ND	6.29	105	6.00	2.85	
Total BTEX	<0.300	0.300	02/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4080	16.0	02/14/2023	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2023	ND	196	98.2	200	2.79	
DRO >C10-C28*	36.8	10.0	02/14/2023	ND	184	92.2	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	02/14/2023	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/09/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NONE GIVEN		

Sample ID: B 23 @ 1' (H230618-23)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/15/2023	ND	2.12	106	2.00	2.31		
Toluene*	<0.050	0.050	02/15/2023	ND	2.10	105	2.00	4.04		
Ethylbenzene*	<0.050	0.050	02/15/2023	ND	2.08	104	2.00	2.91		
Total Xylenes*	<0.150	0.150	02/15/2023	ND	6.29	105	6.00	2.85		
Total BTEX	<0.300	0.300	02/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1320	16.0	02/14/2023	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/14/2023	ND	196	98.2	200	2.79		
DRO >C10-C28*	<10.0	10.0	02/14/2023	ND	184	92.2	200	1.25		
EXT DRO >C28-C36	<10.0	10.0	02/14/2023	ND						

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/09/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NONE GIVEN		

Sample ID: B 24 @ 1' (H230618-24)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/15/2023	ND	2.12	106	2.00	2.31	
Toluene*	<0.050	0.050	02/15/2023	ND	2.10	105	2.00	4.04	
Ethylbenzene*	<0.050	0.050	02/15/2023	ND	2.08	104	2.00	2.91	
Total Xylenes*	<0.150	0.150	02/15/2023	ND	6.29	105	6.00	2.85	
Total BTEX	<0.300	0.300	02/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4280	16.0	02/14/2023	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2023	ND	196	98.2	200	2.79	
DRO >C10-C28*	<10.0	10.0	02/14/2023	ND	184	92.2	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	02/14/2023	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/09/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NONE GIVEN		

Sample ID: B 25 @ 1' (H230618-25)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/15/2023	ND	2.12	106	2.00	2.31	
Toluene*	<0.050	0.050	02/15/2023	ND	2.10	105	2.00	4.04	
Ethylbenzene*	<0.050	0.050	02/15/2023	ND	2.08	104	2.00	2.91	
Total Xylenes*	<0.150	0.150	02/15/2023	ND	6.29	105	6.00	2.85	
Total BTEX	<0.300	0.300	02/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8480	16.0	02/14/2023	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2023	ND	196	98.2	200	2.79	
DRO >C10-C28*	74.3	10.0	02/14/2023	ND	184	92.2	200	1.25	
EXT DRO >C28-C36	13.1	10.0	02/14/2023	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/09/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NONE GIVEN		

Sample ID: B 26 @ 1' (H230618-26)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/15/2023	ND	2.12	106	2.00	2.31	
Toluene*	<0.050	0.050	02/15/2023	ND	2.10	105	2.00	4.04	
Ethylbenzene*	<0.050	0.050	02/15/2023	ND	2.08	104	2.00	2.91	
Total Xylenes*	<0.150	0.150	02/15/2023	ND	6.29	105	6.00	2.85	
Total BTEX	<0.300	0.300	02/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6480	16.0	02/14/2023	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2023	ND	196	98.2	200	2.79	
DRO >C10-C28*	<10.0	10.0	02/14/2023	ND	184	92.2	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	02/14/2023	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/09/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NONE GIVEN		

Sample ID: B 27 @ 1' (H230618-27)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/15/2023	ND	2.12	106	2.00	2.31	
Toluene*	<0.050	0.050	02/15/2023	ND	2.10	105	2.00	4.04	
Ethylbenzene*	<0.050	0.050	02/15/2023	ND	2.08	104	2.00	2.91	
Total Xylenes*	<0.150	0.150	02/15/2023	ND	6.29	105	6.00	2.85	
Total BTEX	<0.300	0.300	02/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9730	16.0	02/14/2023	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2023	ND	196	98.2	200	2.79	
DRO >C10-C28*	220	10.0	02/14/2023	ND	184	92.2	200	1.25	
EXT DRO >C28-C36	62.9	10.0	02/14/2023	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/09/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NONE GIVEN		

Sample ID: B 28 @ 1' (H230618-28)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/15/2023	ND	2.12	106	2.00	2.31	
Toluene*	<0.050	0.050	02/15/2023	ND	2.10	105	2.00	4.04	
Ethylbenzene*	<0.050	0.050	02/15/2023	ND	2.08	104	2.00	2.91	
Total Xylenes*	<0.150	0.150	02/15/2023	ND	6.29	105	6.00	2.85	
Total BTEX	<0.300	0.300	02/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	02/14/2023	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2023	ND	196	98.2	200	2.79	
DRO >C10-C28*	<10.0	10.0	02/14/2023	ND	184	92.2	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	02/14/2023	ND					

Surrogate: 1-Chlorooctane 95.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.5 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/09/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NONE GIVEN		

Sample ID: W 1 BGS 0-6" (H230618-29)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/15/2023	ND	2.12	106	2.00	2.31		
Toluene*	<0.050	0.050	02/15/2023	ND	2.10	105	2.00	4.04		
Ethylbenzene*	<0.050	0.050	02/15/2023	ND	2.08	104	2.00	2.91		
Total Xylenes*	<0.150	0.150	02/15/2023	ND	6.29	105	6.00	2.85		
Total BTEX	<0.300	0.300	02/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1480	16.0	02/14/2023	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/14/2023	ND	196	98.2	200	2.79		
DRO >C10-C28*	<10.0	10.0	02/14/2023	ND	184	92.2	200	1.25		
EXT DRO >C28-C36	<10.0	10.0	02/14/2023	ND						

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/09/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NONE GIVEN		

Sample ID: W 2 BGS 0-1' (H230618-30)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/15/2023	ND	2.12	106	2.00	2.31	
Toluene*	<0.050	0.050	02/15/2023	ND	2.10	105	2.00	4.04	
Ethylbenzene*	<0.050	0.050	02/15/2023	ND	2.08	104	2.00	2.91	
Total Xylenes*	<0.150	0.150	02/15/2023	ND	6.29	105	6.00	2.85	
Total BTEX	<0.300	0.300	02/15/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	02/14/2023	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/14/2023	ND	196	98.2	200	2.79	
DRO >C10-C28*	<10.0	10.0	02/14/2023	ND	184	92.2	200	1.25	
EXT DRO >C28-C36	<10.0	10.0	02/14/2023	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/10/2023	Sampling Date:	02/09/2023
Reported:	02/16/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NONE GIVEN		

Sample ID: W 3 BGS 0-6" (H230618-31)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/15/2023	ND	2.12	106	2.00	2.31		
Toluene*	<0.050	0.050	02/15/2023	ND	2.10	105	2.00	4.04		
Ethylbenzene*	<0.050	0.050	02/15/2023	ND	2.08	104	2.00	2.91		
Total Xylenes*	<0.150	0.150	02/15/2023	ND	6.29	105	6.00	2.85		
Total BTEX	<0.300	0.300	02/15/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1040	16.0	02/14/2023	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/14/2023	ND	196	98.2	200	2.79		
DRO >C10-C28*	<10.0	10.0	02/14/2023	ND	184	92.2	200	1.25		
EXT DRO >C28-C36	<10.0	10.0	02/14/2023	ND						

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Apache
 Project Manager: B. Baker
 Address: Hobbs
 City: Hobbs State: NM Zip: 88240
 Phone #: Fax #:
 Project #: Project Owner:
 Project Name: Hoco Hills Disposal Water Trunk Line
 Project Location:
 Sampler Name: Jose Alvarez
 FOR LAB USE ONLY

P.O. #:
 Company:
 Attn:
 Address:
 City:
 State: Zip:
 Phone #: Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX						DATE	TIME	CI	BTEX	EXT TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
HBB2018-1	B106"	C	1							9/19	9:58 AM			
	B206"	C	1								8:52 AM			
	B306"	C	1								8:54 AM			
	B406"	C	1								8:56 AM			
	B506"	C	1								8:58 AM			
	B606"	C	1								9:00 AM			
	B706"	C	1								9:02 AM			
	B806"	C	1								9:04 AM			
	B906"	C	1								9:06 AM			
	B1006"	C	1								9:07 AM			

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Relinquished By: Jose Alvarez
 Date: 9/19/23
 Time: 9:20
 Received By: Ampel Coburn
 Date: 9/19/23
 Time: 10:23

Delivered By: (Circle One)
 Observed Temp. °C: 10.4
 Corrected Temp. °C: 0.8
 Sample Condition: Cool Intact
 Checked By: (Initials) AC

REMARKS: Mail Results
 Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address:
 Turnaround Time: Standard Rush
 Bacteria (only) Sample Condition: Cool Intact Yes No
 Corrected Temp. °C



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Acache</u> Project Manager: <u>B. Baker</u> Address: City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u> Phone #: _____ Fax #: _____ Project #: _____ Project Owner: Project Name: <u>Loce Hills Disposal Water Treatment</u> Project Location: <u>8</u> State: _____ Zip: _____ Sampler Name: <u>Tore Baker</u> Phone #: _____ Fax #: _____ FOR LAB USE ONLY		BILL TO P.O. #: Company: Attn: Address: City: State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Lab I.D. _____ Sample I.D. _____ <u>HERBALS</u>		ANALYSIS REQUEST	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services provided by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.			
Relinquished By: <u>Tore Baker</u> Date: <u>9/13/23</u> Received By: <u>Amel Carrera</u> Time: <u>7:00</u> Date: <u>8-10-23</u> Received By: _____ Time: _____			
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____ Observed Temp. °C: <u>14</u> Corrected Temp. °C: <u>0.8</u>		Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Sample Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No CHECKED BY: _____ (Initials)	
Turnaround Time: _____ Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #113 <input type="checkbox"/> Correction Factor None <input type="checkbox"/>		Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Observed Temp. °C _____ Corrected Temp. °C _____	
REMARKS: <u>E-mail Results</u>			
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address:			
Matrix: (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:		DATE TIME 9/13/23 9:10AM 9/13/23 9:11AM 9/13/23 9:12AM 9/13/23 9:13AM 9/13/23 9:14AM 9/13/23 9:15AM 9/13/23 9:16AM 9/13/23 9:17AM 9/13/23 9:18AM 9/13/23 9:19AM 9/13/23 9:20AM 9/13/23 9:21AM 9/13/23 9:22AM 9/13/23 9:23AM 9/13/23 9:24AM 9/13/23 9:25AM 9/13/23 9:26AM 9/13/23 9:27AM 9/13/23 9:28AM	



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Speckle
 Project Manager: B. Baker
 Address: _____
 City: Hobbs State: NM zip: 88240
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: _____
 Project Name: Loce Hills Disposal Water Tank Lin
 Project Location: _____
 Sampler Name: Sara Roach
 FOR LAB USE ONLY

P.O. #: _____ Company: _____
 Attn: _____ Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMR	# CONTAINERS	MATRIX							PRESERV			DATE	TIME	CI	BTEX	EXTTPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :						
<u>H232018</u>	<u>B210e1</u>	<u>C</u>	<u>1</u>										<u>9/9</u>	<u>9:30AM</u>	<u>1</u>	<u>1</u>	<u>1</u>	
	<u>B220e1</u>	<u>C</u>	<u>1</u>											<u>9:32AM</u>	<u>1</u>	<u>1</u>	<u>1</u>	
	<u>B230e1</u>	<u>C</u>	<u>1</u>											<u>9:34AM</u>	<u>1</u>	<u>1</u>	<u>1</u>	
	<u>B240e1</u>	<u>C</u>	<u>1</u>											<u>9:36AM</u>	<u>1</u>	<u>1</u>	<u>1</u>	
	<u>B250e1</u>	<u>C</u>	<u>1</u>											<u>9:39AM</u>	<u>1</u>	<u>1</u>	<u>1</u>	
	<u>B260e1</u>	<u>C</u>	<u>1</u>											<u>9:40AM</u>	<u>1</u>	<u>1</u>	<u>1</u>	
	<u>B270e1</u>	<u>C</u>	<u>1</u>											<u>9:42AM</u>	<u>1</u>	<u>1</u>	<u>1</u>	
	<u>B280e1</u>	<u>C</u>	<u>1</u>											<u>9:44AM</u>	<u>1</u>	<u>1</u>	<u>1</u>	

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Relinquished By: Sara Roach Date: 9/13/23 Time: 7:20
 Received By: Annela Capone Date: 9/10/23 Time: _____

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

Delivered By: (Circle One) UPS - Bus - Other: _____
 Observed Temp. °C: 14 Corrected Temp. °C: 0.8
 Sample Condition: Cool Intact Yes No
 CHECKED BY: (Initials) SR
 Turnaround Time: _____ Standard Rush
 Bacteria (only) Sample Condition: Cool Intact Yes No
 Corrected Temp. °C: _____



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Apache</u> Project Manager: <u>B. Baker</u> Address: <u>5</u> City: <u>Hobbs</u> State: <u>NM</u> zip: <u>88240</u> Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____ Project Name: <u>Koco Hills Disposal Water Trunk Line</u> Project Location: _____ Sampler Name: <u>Sose Luquet</u> FOR LAB USE ONLY		BILL TO P.O. #: _____ Company: _____ Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____		ANALYSIS REQUEST	
Lab I.D. <u>#83018</u> Sample I.D.		(G)RAB OR (C)OMP # CONTAINERS		MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	
-29 W01 BAS 0-6" 30 W02 BAS 0-1" 31 W03 BAS 0-6"		C 1 C 1 C 1		PRESERV ACID/BASE: ICE / COOL OTHER:	
		DATE 9/9		TIME 10:07 AM 10:09 AM 10:06 AM	
		C1 BTEX EXT TPH			

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Relinquished By: <u>Sose Luquet</u> Date: <u>9/9/23</u> Time: <u>7:20</u>	Received By: <u>Amber Corona</u> Date: <u>9-10-23</u> Time: _____
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____	Observed Temp. °C <u>1.4</u> Corrected Temp. °C <u>0.8</u>
Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Bacteria (only) <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <u>AE</u> Turnaround Time: _____ Thermometer ID #113 Correction Factor -0.6°C
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ All Results are emailed. Please provide Email address: _____	REMARKS: <u>2-WS1 Results</u> Standard <input checked="" type="checkbox"/> <u>RUSH</u> Bacteria (only) <input type="checkbox"/> Yes <input type="checkbox"/> No Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Sample Condition <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C _____ Corrected Temp. °C _____

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



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

February 22, 2023

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: LOCO HILLS DISPOSAL WATER TRUNK LINE

Enclosed are the results of analyses for samples received by the laboratory on 02/20/23 17:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/20/2023	Sampling Date:	02/20/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: W4 BGS 0-1' (H230786-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2023	ND	2.07	103	2.00	4.03	
Toluene*	<0.050	0.050	02/21/2023	ND	1.99	99.7	2.00	4.25	
Ethylbenzene*	<0.050	0.050	02/21/2023	ND	1.93	96.5	2.00	4.17	
Total Xylenes*	<0.150	0.150	02/21/2023	ND	5.88	98.0	6.00	4.57	
Total BTEX	<0.300	0.300	02/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2920	16.0	02/21/2023	ND	400	100	400	0.00	QM-07

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	210	105	200	2.16	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	202	101	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/20/2023	Sampling Date:	02/20/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: W5 BGS 0-1' (H230786-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/21/2023	ND	2.07	103	2.00	4.03		
Toluene*	<0.050	0.050	02/21/2023	ND	1.99	99.7	2.00	4.25		
Ethylbenzene*	<0.050	0.050	02/21/2023	ND	1.93	96.5	2.00	4.17		
Total Xylenes*	<0.150	0.150	02/21/2023	ND	5.88	98.0	6.00	4.57		
Total BTEX	<0.300	0.300	02/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3240	16.0	02/21/2023	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	210	105	200	2.16		
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	202	101	200	2.11		
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND						

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/20/2023	Sampling Date:	02/20/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: W6 BGS 0-1' (H230786-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/21/2023	ND	2.07	103	2.00	4.03	
Toluene*	<0.050	0.050	02/21/2023	ND	1.99	99.7	2.00	4.25	
Ethylbenzene*	<0.050	0.050	02/21/2023	ND	1.93	96.5	2.00	4.17	
Total Xylenes*	<0.150	0.150	02/21/2023	ND	5.88	98.0	6.00	4.57	
Total BTEX	<0.300	0.300	02/21/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2760	16.0	02/21/2023	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	210	105	200	2.16	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	202	101	200	2.11	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <i>Apache</i>		BILL TO		P.O. #:		ANALYSIS REQUEST			
Project Manager: <i>B. Baker</i>		Company:		Attn:					
Address:		City: <i>Hobbs</i>		State: <i>NM</i>		Zip: <i>88840</i>			
Phone #:		Fax #:		Address:		City:			
Project #:		Project Owner:		State:		Zip:			
Project Name:		Project Location: <i>Loce Hills Disposal Waste-Truck</i>		Phone #:		Fax #:			
Sampler Name: <i>Sosa</i>		FOR LAB USE ONLY		PRESERV:		SAMPLING			
Lab I.D. <i>H230786</i> Sample I.D.		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		DATE		TIME			
				4:04		4:06		4:08	
				C1		BTEX		EXTTPH	
				C1					
Relinquished By: <i>Sosa</i> Date: <i>9/13</i> Time: <i>3:20 pm</i>		Received By: <i>Juanita</i> Date: <i>9/13</i> Time: <i>3:20 pm</i>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:		All Results are emailed. Please provide Email address:			
Relinquished By: <i>Sosa</i> Date: <i>9/13</i> Time:		Received By: <i>Juanita</i> Date: <i>9/13</i> Time:		Remarks: <i>E-Mail Results</i>					
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C: <i>27</i> Corrected Temp. °C: <i>21</i>		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Bacteria (only) Sample Condition <input type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: <input type="checkbox"/> Standard <input type="checkbox"/> Rush Thermometer ID #113 <input type="checkbox"/> Yes <input type="checkbox"/> No Correction Factor None <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C:			

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



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

February 22, 2023

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: LOCO HILLS DISPOSAL WATER TRUNK LINE

Enclosed are the results of analyses for samples received by the laboratory on 02/20/23 17:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/20/2023	Sampling Date:	02/20/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B 13 @ 1' (H230787-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	02/21/2023	ND	400	100	400	0.00	

Sample ID: B 14 @ 1' (H230787-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3320	16.0	02/21/2023	ND	400	100	400	0.00	

Sample ID: B 16 @ 1' (H230787-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1710	16.0	02/21/2023	ND	400	100	400	0.00	

Sample ID: B 15 @ 1' (H230787-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	02/21/2023	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/20/2023	Sampling Date:	02/20/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B 17 @ 1' (H230787-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1420	16.0	02/21/2023	ND	400	100	400	0.00	

Sample ID: B 18 @ 1' (H230787-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2520	16.0	02/21/2023	ND	400	100	400	0.00	

Sample ID: B 19 @ 1' (H230787-07)

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	02/21/2023	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/20/2023	Sampling Date:	02/20/2023
Reported:	02/22/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: B 4 @ 1' (H230787-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/21/2023	ND	2.07	103	2.00	4.03		
Toluene*	<0.050	0.050	02/21/2023	ND	1.99	99.7	2.00	4.25		
Ethylbenzene*	<0.050	0.050	02/21/2023	ND	1.93	96.5	2.00	4.17		
Total Xylenes*	<0.150	0.150	02/21/2023	ND	5.88	98.0	6.00	4.57		
Total BTEX	<0.300	0.300	02/21/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	210	105	200	2.16		
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	202	101	200	2.11		
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND						

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

P.O. #:

Company:

Attn:

Address:

City:

State:

Phone #:

Fax #:

Project Manager: *B. Baker*

Address:

City: *Hobbs*

State: *NM*

Project #: *88246*

Project Owner:

Project Name:

Project Location: *Loce Hills Dispose/Water Truck Line*

Sampler Name: *Sose Quevedo*

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

EXT PH

BTEX

1 B1301'

2 B1401'

3 B1601'

4 B1501'

5 B1701'

6 B1801'

7 B1901'

8 B401'

3:20

3:22

3:24

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

May 19, 2022

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: LOCO HILLS WATER TRUNK LINE

Enclosed are the results of analyses for samples received by the laboratory on 05/17/22 16:12.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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:	05/17/2022	Sampling Date:	05/17/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	LOCO HILLS WATER TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: SOUTH HORIZONTAL (H222098-01)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	3.84	
Toluene*	<0.050	0.050	05/18/2022	ND	2.02	101	2.00	2.94	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.00	100	2.00	3.78	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.21	103	6.00	3.85	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	05/18/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/19/2022	ND	234	117	200	6.50	
DRO >C10-C28*	<10.0	10.0	05/19/2022	ND	215	108	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	05/19/2022	ND					

Surrogate: 1-Chlorooctane 116 % 66.9-136

Surrogate: 1-Chlorooctadecane 126 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/17/2022	Sampling Date:	05/17/2022
Reported:	05/19/2022	Sampling Type:	Soil
Project Name:	LOCO HILLS WATER TRUNK LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: EAST HORIZONTAL (H222098-02)

BTEX 8021B		mg/kg		Analyzed By: MS\					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2022	ND	2.05	102	2.00	3.84	
Toluene*	<0.050	0.050	05/18/2022	ND	2.02	101	2.00	2.94	
Ethylbenzene*	<0.050	0.050	05/18/2022	ND	2.00	100	2.00	3.78	
Total Xylenes*	<0.150	0.150	05/18/2022	ND	6.21	103	6.00	3.85	
Total BTEX	<0.300	0.300	05/18/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	05/18/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/18/2022	ND	214	107	200	4.44	
DRO >C10-C28*	<10.0	10.0	05/18/2022	ND	223	111	200	0.778	
EXT DRO >C28-C36	<10.0	10.0	05/18/2022	ND					

Surrogate: 1-Chlorooctane 106 % 66.9-136

Surrogate: 1-Chlorooctadecane 128 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Apache
 Project Manager: Bruce R.
 Address:
 City: Hobbs State: NM Zip: 88240
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner:
 Project Name:
 Project Location: Low Hills water trench line
 Sampler Name: Joe Quisenberry
 FOR LAB USE ONLY

P.O. #:
 Company:
 Attn:
 Address:
 City:
 State: Zip:
 Phone #:
 Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	CF	STP	BTEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
<u>H20008</u>	<u>South Horizontal East Horizontal</u>	<u>G</u>	<u>1</u>							<u>5/17</u>	<u>3:04</u>	<u>/</u>	<u>/</u>	<u>/</u>
										<u>5/17</u>	<u>3:06</u>	<u>/</u>	<u>/</u>	<u>/</u>

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Relinquished By: [Signature]
 Date: 5/17
 Time: 11:12
 Received By: [Signature]
 Date: 5/17
 Time: _____

Turnaround Time: Standard Rush
 Thermometer ID #13
 Correction Factor -0.5°C
 Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address:
 REMARKS: Joe @ Bruce

Delivered By: (Circle One) UPS Bus Other:
 Observed Temp. °C: 14.0
 Corrected Temp. °C: 0.92
 Sample Condition: Cool Intact
 Checked By: (Initials) [Signature]
 Bacteria (only) Cool Intact
 Observed Temp. °C: _____
 Corrected Temp. °C: _____

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



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

August 11, 2023

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: LOCO HILLS DISPOSAL WATER TRUNK LINE

Enclosed are the results of analyses for samples received by the laboratory on 08/07/23 9:59.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/11/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: NORTH HORIZONTAL (H234177-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.22	111	2.00	1.55	
Toluene*	<0.050	0.050	08/10/2023	ND	2.13	106	2.00	1.06	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	2.05	102	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	6.13	102	6.00	1.11	
Total BTEX	<0.300	0.300	08/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8160	16.0	08/09/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2023	ND	162	81.1	200	2.46	
DRO >C10-C28*	<10.0	10.0	08/09/2023	ND	166	82.8	200	1.40	
EXT DRO >C28-C36	<10.0	10.0	08/09/2023	ND					

Surrogate: 1-Chlorooctane 82.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.5 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	08/07/2023	Sampling Date:	08/07/2023
Reported:	08/11/2023	Sampling Type:	Soil
Project Name:	LOCO HILLS DISPOSAL WATER TRUNK L	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Shalyn Rodriguez
Project Location:	NONE GIVEN		

Sample ID: WEST HORIZONTAL (H234177-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.22	111	2.00	1.55	
Toluene*	<0.050	0.050	08/10/2023	ND	2.13	106	2.00	1.06	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	2.05	102	2.00	1.82	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	6.13	102	6.00	1.11	
Total BTEX	<0.300	0.300	08/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7760	16.0	08/09/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	17.8	10.0	08/09/2023	ND	162	81.1	200	2.46		
DRO >C10-C28*	3980	10.0	08/09/2023	ND	166	82.8	200	1.40		
EXT DRO >C28-C36	1070	10.0	08/09/2023	ND						

Surrogate: 1-Chlorooctane 94.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 252 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apache
Project Manager: B. Baker
Address: _____
City: Hobbs
Phone #: _____
Project #: _____
Project Name: _____
Project Location: Loce Hills Disp Water Tank Line
Sampler Name: Jose David

State: NM Zip: 88240
Project Owner: _____
Project Name: _____

FOR LAB USE ONLY
P.O. #: _____
Company: _____
Attn: _____
Address: _____
City: _____
State: _____ Zip: _____
Phone #: _____
Fax #: _____

Lab I.D.	Sample I.D.	(G) (R) OR (C) (OMP)	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:			
H034177			3								8/7	8:58	CL
2	North Horowitz / West Horowitz		3								8/7	8:54	BTEX
													EXT TPH

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

Delivered By: (Circle One)
 UPS - Bus - Other:
 Other: _____
Date: 8/7/23
Time: 9:59

Received By: Spodiguel
Date: _____
Time: _____

Observed Temp. °C: 4.4
Corrected Temp. °C: _____

Sample Condition
Cool Intact: Yes No
Intact: Yes No

Checked By: [Signature]
Remarks: 2. Most Results

Turnaround Time: Standard
Thermometer ID: #140
Correction Factor: 0.0°C
Bacteria (only) Sample Condition: Yes No
Cool Intact: Yes No
Corrected Temp. °C: _____

East Elevation

☉ 268°W (T) ● 32°49'46"N, 103°58'55"W ±13ft ▲ 3662ft



21 Feb 2023, 09:03:23



West Elevation

☉ 92°E (T) ☉ 32°49'46"N, 103°58'56"W ±13ft ▲ 3666ft



District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720
District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720
District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 264707

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 264707
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	Final remediation and reclamation/revegetation shall take place in accordance with 19.15.29.12 and 19.15.29.13 NMAC once the site is no longer being used for oil and gas operations.	2/6/2024