

Incident ID	NRM2032829991
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.

Signature: Larry Baker

Date: 9/7/2021

email: larry.baker@apachecorp.com

Telephone: 432-631-6982

OCD Only

Received by: Robert Hamlet

Date: 1/25/2022

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

Closure Approved by: Robert Hamlet

Date: 1/25/2022

Printed Name: Robert Hamlet

Title: Environmental Specialist - Advanced



303 Veterans Airpark Lane Midland, TX 79705

Closure Report

September 7, 2021

Re: Hawk A # 17

Case # NRM2032829991

On 10/28/2020 a release occurred due a flow line separated from a fusion point near the poly to steel transition. The release (GPS: 32.49802, -103.18776) is located north of Eunice, New Mexico in unit letter C section 8 township 21S range 37E. A groundwater survey was conducted utilizing NMOSE wells of record. The nearest well's drillers log suggest that groundwater is greater than 100 feet below ground surface. A remediation plan was submitted to OCD and approved with stipulations. On 9/1/2021 a soil bore (32.4977805, -103.1877247) was conducted on the lease pad to a depth of 60 feet. The bore hole was left open for 72 hours and gauged with no water present to a depth of 60 feet.

The release area in the pasture was excavated to depths 1-4 feet below ground surface. The lease pad had a small 2 foot excavation. All excavated soil was hauled to an OCD approved disposal facility. Final 5 point bottom and wall composite samples were collected not to exceed 200 square feet. All samples collected were submitted to a commercial laboratory for analysis. Once laboratory analysis were below table one standards for releases 51-100 feet to groundwater and reclamation standards in the pasture the excavation was backfilled with clean imported top soil in the pasture and clean imported caliche on the pad. The pasture area will be reseeded in accordance with the surface landowner.

Apache Corporation has completed remediation to below table one standards and respectfully request closure of event # NRM2032829991.

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

Submitted by;

Bruce Baker

Environmental Technician

larry.baker@apachecorp.com

Cell# 432-631-6982

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.

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- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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

Printed Name: Larry Baker

Title: Environmental Tech SR.

Signature: Larry Baker

Date: 9/7/2021

email: larry.baker@apachecorp.com

Telephone: 432-631-6982

OCD Only

Received by: _____

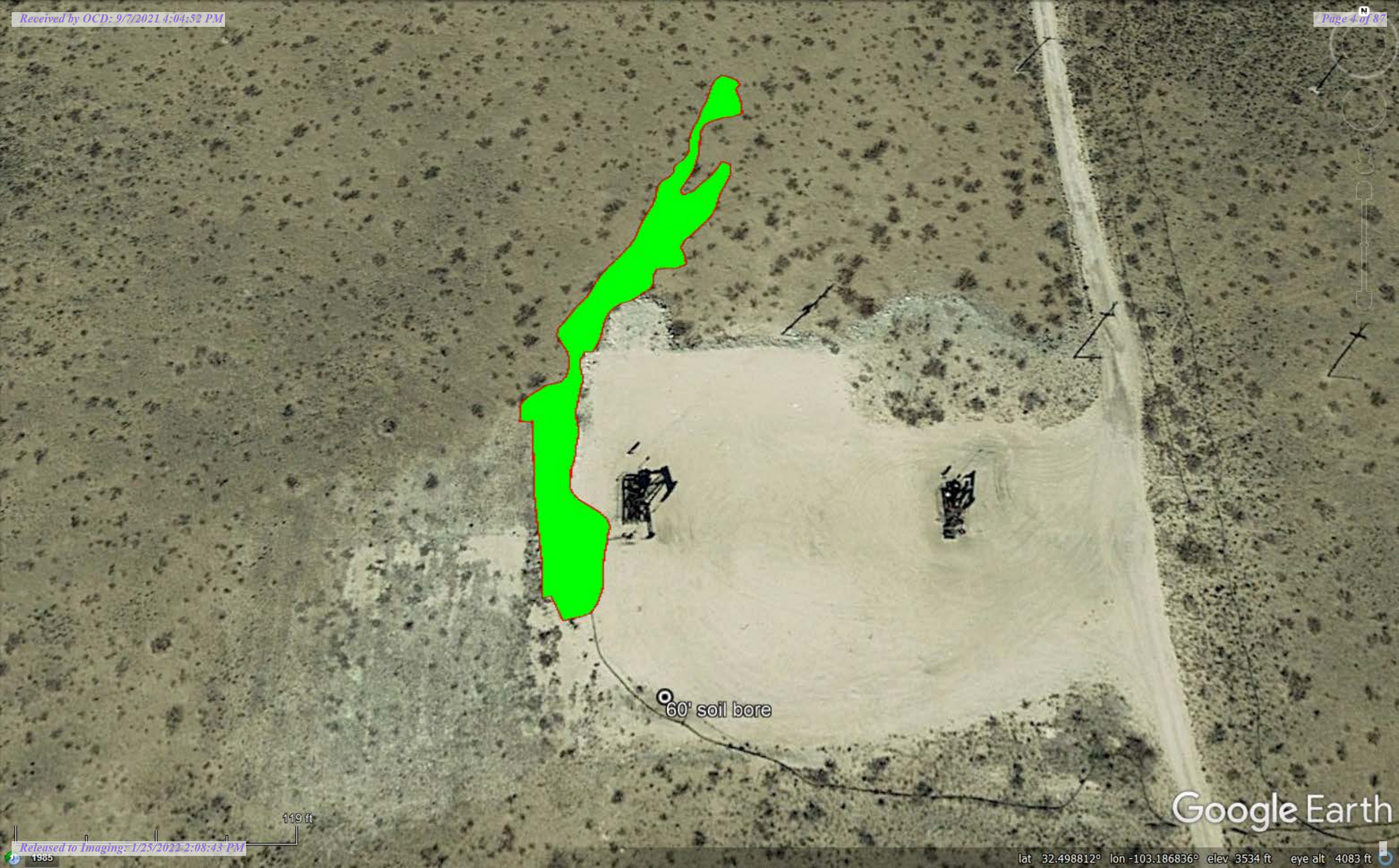
Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____

Title: _____



60' soil bore

Google Earth

119 ft

Soil Bore Report

[illegible]





36 ft

Google Earth

Final Bottom Samples

Sample Date	Sample ID	Depth	Chloride Lab	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO
8/23/2021	B1	6"-1'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
8/23/2021	B2	6"-1'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	359	81.9
8/30/2021	B2	1-1.5'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	29	<10.0
8/23/2021	B3	6"-1'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
8/23/2021	B4	6"-1'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
8/23/2021	B5	6"-1'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	213	44
8/30/2021	B5	1-1.5'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	76.7	<10.0
8/23/2021	B6	6"-1'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
8/23/2021	B7	6"-1'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	170	27.1
8/30/2021	B7	1-1.5'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
8/23/2021	B8	6"-1'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	290	56.5
8/30/2021	B8	1-1.5'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	20.1	<10.0
8/23/2021	B9	6"-1'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
8/23/2021	B10	6"-1'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
8/23/2021	B11	6"-1'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
8/23/2021	B12	6"-1'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
8/23/2021	B13	6"-1'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
8/23/2021	B14	6"-1'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	198	38.9
8/30/2021	B14	1-1.5'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
8/23/2021	B15	6"-1'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
8/23/2021	B16	6"-1'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
8/23/2021	B17	6"-1'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
8/23/2021	B18	4'	656	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
9/3/2021	B18	4'	784	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
9/3/2021	B19	4'	656	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
9/3/2021	B20	4'	1100	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
9/1/2021	B21	2'	3920	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
9/1/2021	B22	Surface	1820	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
9/1/2021	B23	Surface	3480	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	83.1	56.2
9/1/2021	B24	Surface	1440	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	120	129
9/3/2021	B25	4'	2120	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0

9/3/2021	B26	4'	2400	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
9/3/2021	B27	4'	1100	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
9/3/2021	B28	4'	224	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	27.7	10.7

Final Wall Samples

Sample Date	Sample ID	Depth	Chloride Lab	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO
8/23/2021	W1	0-1'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
8/23/2021	W2	0-1'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
8/23/2021	W3	0-1'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
9/1/2021	W4	Surface	4640	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	26.2	13.7
9/3/2021	W4	Surface	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	54.2	11.3
9/1/2021	E Wall	0-4'	3320	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
9/1/2021	E Wall	0-2'	2600	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	10.1
9/2/2021	EW 2	0-4'	2600	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
9/3/2021	EW 3	0-4'	2440	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
9/2/2021	WW 1	0-4'	192	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
9/2/2021	WW 2	0-4'	672	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
9/3/2021	WW2	0-4'	<16								
9/3/2021	WW 3	0-4'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	59.2	16.3
9/2/2021	NW	0-4'	208	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
9/3/2021	SW	0-4'	64	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	62.1	20.3



Apache Hawk A-17

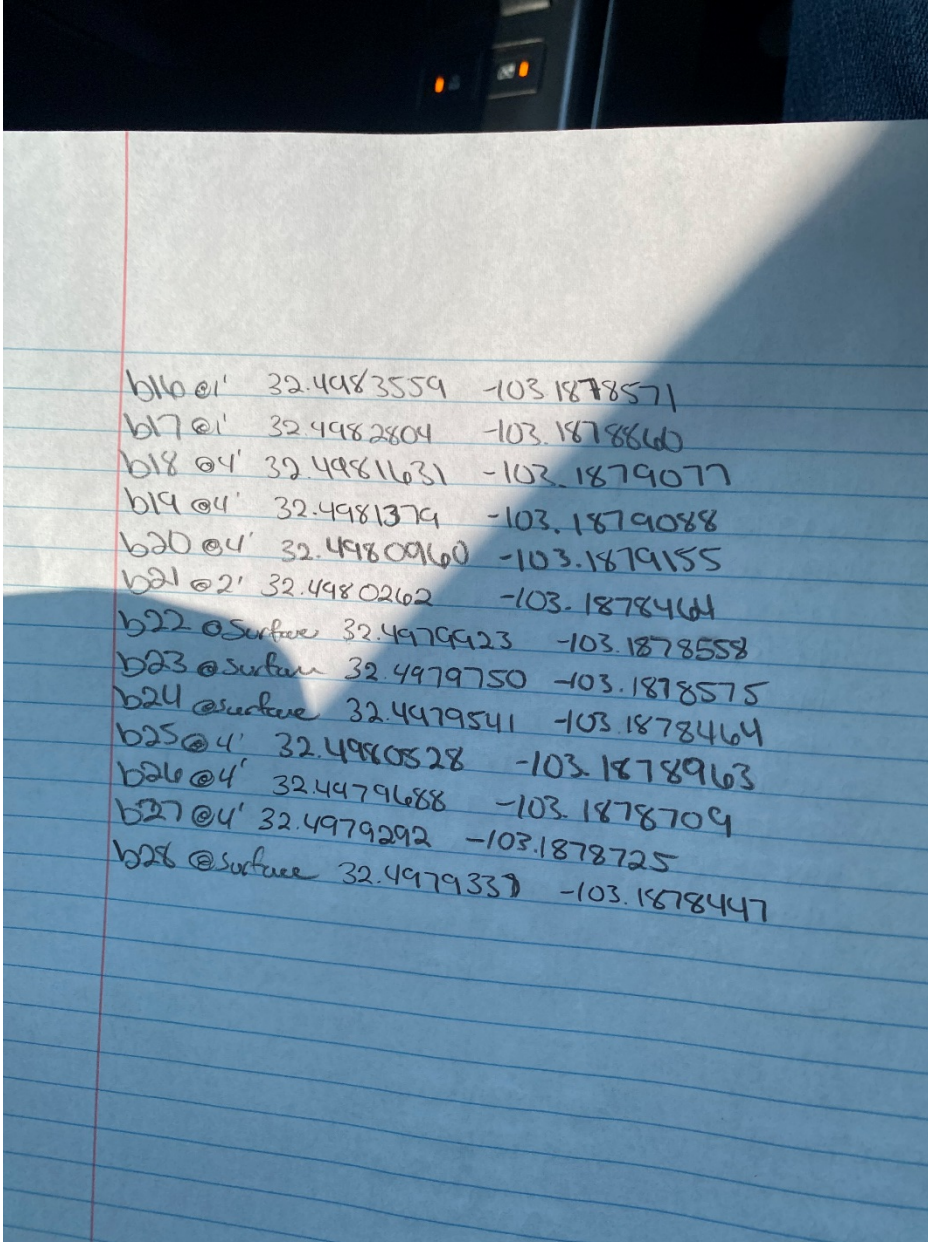
Gps points

walls

Sw @ 1'	32.4978642	-103.1878856
NW	32.4981772	-103.1879108
EW #1	32.4981170	-103.1878749
EW #2	32.4980632	-103.1878665
EW #3	32.4979761	-103.1878772
WW #1	32.4981566	-103.1879433
WW #2	32.4980584	-103.1879319
WW #3	32.4979617	-103.1879077
w1 @ 1'	32.4984546	-103.1877109
w2 @ 1'	32.4987597	-103.1876650
w3 @ 1'	32.4983944	-103.1878642
w4 @ surface	32.4979679	-103.1878323
2' wall	32.4980302	-103.1878192

Bottoms

b1	32.4987864	-103.1876057
b2	32.4987543	-103.1876348
b3	32.4986972	-103.1876590
b4	32.4986477	-103.1876788
b5	32.4985802	-103.1877046
b6	32.4985736	-103.1877485
b7	32.4985680	-103.1876596
b8	32.4985007	-103.1877019
b9	32.4985061	-103.1877606
b10	32.4985052	-103.1877907
b11	32.4984518	-103.1877404
b12	32.4984169	-103.1877870
b13	32.4984169	-103.1878092
b14	32.4984048	-103.1877646
b15	32.4984275	-103.1878082



b16 @ 1'	32.4983559	-103.1878571
b17 @ 1'	32.4982804	-103.1878860
b18 @ 4'	32.49811631	-103.1879077
b19 @ 4'	32.4981379	-103.1879088
b20 @ 4'	32.4980960	-103.1879155
b21 @ 2'	32.4980262	-103.1878464
b22 @ Surface	32.4979923	-103.1878558
b23 @ Surface	32.4979750	-103.1878575
b24 @ Surface	32.4979541	-103.1878464
b25 @ 4'	32.4980528	-103.1878963
b26 @ 4'	32.4479688	-103.1878709
b27 @ 4'	32.4979292	-103.1878725
b28 @ Surface	32.4979339	-103.1878447



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

August 25, 2021

JEFFREY BROOM

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: HAWK A - 17

Enclosed are the results of analyses for samples received by the laboratory on 08/23/21 16:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/23/2021
 Reported: 08/25/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 1 @ 1' (H212250-01)

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	08/24/2021	ND	1.99	99.6	2.00	2.30		
Toluene*	<0.050	0.050	08/24/2021	ND	2.08	104	2.00	0.837		
Ethylbenzene*	<0.050	0.050	08/24/2021	ND	2.04	102	2.00	0.944		
Total Xylenes*	<0.150	0.150	08/24/2021	ND	6.14	102	6.00	0.632		
Total BTEx	<0.300	0.300	08/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	<16.0	16.0	08/24/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2021	ND	212	106	200	3.92	
DRO >C10-C28*	<10.0	10.0	08/24/2021	ND	193	96.6	200	2.32	
EXT DRO >C28-C36	<10.0	10.0	08/24/2021	ND					

Surrogate: 1-Chlorooctane 76.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 71.1 % 38.9-142

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

Received: 08/23/2021
 Reported: 08/25/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 2 @ 1' (H212250-02)

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	08/24/2021	ND	1.99	99.6	2.00	2.30	
Toluene*	<0.050	0.050	08/24/2021	ND	2.08	104	2.00	0.837	
Ethylbenzene*	<0.050	0.050	08/24/2021	ND	2.04	102	2.00	0.944	
Total Xylenes*	<0.150	0.150	08/24/2021	ND	6.14	102	6.00	0.632	
Total BTEx	<0.300	0.300	08/24/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	<16.0	16.0	08/24/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2021	ND	212	106	200	3.92	
DRO >C10-C28*	359	10.0	08/24/2021	ND	193	96.6	200	2.32	
EXT DRO >C28-C36	81.9	10.0	08/24/2021	ND					

Surrogate: 1-Chlorooctane 76.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.2 % 38.9-142

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



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 JEFFREY BROOM
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 Fax To: (575) 393-2432

Received: 08/23/2021
 Reported: 08/25/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 3 @ 1' (H212250-03)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2021	ND	1.99	99.6	2.00	2.30		
Toluene*	<0.050	0.050	08/24/2021	ND	2.08	104	2.00	0.837		
Ethylbenzene*	<0.050	0.050	08/24/2021	ND	2.04	102	2.00	0.944		
Total Xylenes*	<0.150	0.150	08/24/2021	ND	6.14	102	6.00	0.632		
Total BTX	<0.300	0.300	08/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	<16.0	16.0	08/24/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2021	ND	212	106	200	3.92	
DRO >C10-C28*	<10.0	10.0	08/24/2021	ND	193	96.6	200	2.32	
EXT DRO >C28-C36	<10.0	10.0	08/24/2021	ND					

Surrogate: 1-Chlorooctane 75.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 70.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/23/2021
 Reported: 08/25/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 4 @ 1' (H212250-04)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2021	ND	1.99	99.6	2.00	2.30		
Toluene*	<0.050	0.050	08/24/2021	ND	2.08	104	2.00	0.837		
Ethylbenzene*	<0.050	0.050	08/24/2021	ND	2.04	102	2.00	0.944		
Total Xylenes*	<0.150	0.150	08/24/2021	ND	6.14	102	6.00	0.632		
Total BTX	<0.300	0.300	08/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	<16.0	16.0	08/24/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2021	ND	212	106	200	3.92	
DRO >C10-C28*	<10.0	10.0	08/24/2021	ND	193	96.6	200	2.32	
EXT DRO >C28-C36	<10.0	10.0	08/24/2021	ND					

Surrogate: 1-Chlorooctane 71.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 67.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/23/2021
 Reported: 08/25/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 5 @ 1' (H212250-05)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2021	ND	1.99	99.6	2.00	2.30		
Toluene*	<0.050	0.050	08/24/2021	ND	2.08	104	2.00	0.837		
Ethylbenzene*	<0.050	0.050	08/24/2021	ND	2.04	102	2.00	0.944		
Total Xylenes*	<0.150	0.150	08/24/2021	ND	6.14	102	6.00	0.632		
Total BTX	<0.300	0.300	08/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	<16.0	16.0	08/24/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2021	ND	212	106	200	3.92	
DRO >C10-C28*	213	10.0	08/24/2021	ND	193	96.6	200	2.32	
EXT DRO >C28-C36	44.0	10.0	08/24/2021	ND					

Surrogate: 1-Chlorooctane 76.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/23/2021
 Reported: 08/25/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 6 @ 1' (H212250-06)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2021	ND	1.74	87.2	2.00	4.37		
Toluene*	<0.050	0.050	08/24/2021	ND	1.89	94.7	2.00	3.35		
Ethylbenzene*	<0.050	0.050	08/24/2021	ND	1.85	92.6	2.00	3.76		
Total Xylenes*	<0.150	0.150	08/24/2021	ND	5.66	94.3	6.00	3.38		
Total BTEx	<0.300	0.300	08/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	<16.0	16.0	08/24/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2021	ND	212	106	200	3.92	
DRO >C10-C28*	<10.0	10.0	08/24/2021	ND	193	96.6	200	2.32	
EXT DRO >C28-C36	<10.0	10.0	08/24/2021	ND					

Surrogate: 1-Chlorooctane 78.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.9 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/23/2021
 Reported: 08/25/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 7 @ 1' (H212250-07)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2021	ND	1.74	87.2	2.00	4.37		
Toluene*	<0.050	0.050	08/24/2021	ND	1.89	94.7	2.00	3.35		
Ethylbenzene*	<0.050	0.050	08/24/2021	ND	1.85	92.6	2.00	3.76		
Total Xylenes*	<0.150	0.150	08/24/2021	ND	5.66	94.3	6.00	3.38		
Total BTEx	<0.300	0.300	08/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	<16.0	16.0	08/24/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2021	ND	212	106	200	3.92	
DRO >C10-C28*	170	10.0	08/24/2021	ND	193	96.6	200	2.32	
EXT DRO >C28-C36	27.1	10.0	08/24/2021	ND					

Surrogate: 1-Chlorooctane 75.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/23/2021
 Reported: 08/25/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 8 @ 1' (H212250-08)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2021	ND	1.74	87.2	2.00	4.37		
Toluene*	<0.050	0.050	08/24/2021	ND	1.89	94.7	2.00	3.35		
Ethylbenzene*	<0.050	0.050	08/24/2021	ND	1.85	92.6	2.00	3.76		
Total Xylenes*	<0.150	0.150	08/24/2021	ND	5.66	94.3	6.00	3.38		
Total BTEx	<0.300	0.300	08/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	16.0	16.0	08/24/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2021	ND	212	106	200	3.92	
DRO >C10-C28*	290	10.0	08/24/2021	ND	193	96.6	200	2.32	
EXT DRO >C28-C36	56.5	10.0	08/24/2021	ND					

Surrogate: 1-Chlorooctane 72.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 69.9 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/23/2021
 Reported: 08/25/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 9 @ 1' (H212250-09)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2021	ND	1.74	87.2	2.00	4.37		
Toluene*	<0.050	0.050	08/24/2021	ND	1.89	94.7	2.00	3.35		
Ethylbenzene*	<0.050	0.050	08/24/2021	ND	1.85	92.6	2.00	3.76		
Total Xylenes*	<0.150	0.150	08/24/2021	ND	5.66	94.3	6.00	3.38		
Total BTEx	<0.300	0.300	08/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	<16.0	16.0	08/24/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2021	ND	212	106	200	3.92	
DRO >C10-C28*	<10.0	10.0	08/24/2021	ND	193	96.6	200	2.32	
EXT DRO >C28-C36	<10.0	10.0	08/24/2021	ND					

Surrogate: 1-Chlorooctane 73.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 68.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/23/2021
 Reported: 08/25/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 10 @ 1' (H212250-10)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2021	ND	1.74	87.2	2.00	4.37		
Toluene*	<0.050	0.050	08/24/2021	ND	1.89	94.7	2.00	3.35		
Ethylbenzene*	<0.050	0.050	08/24/2021	ND	1.85	92.6	2.00	3.76		
Total Xylenes*	<0.150	0.150	08/24/2021	ND	5.66	94.3	6.00	3.38		
Total BTEx	<0.300	0.300	08/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	<16.0	16.0	08/24/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2021	ND	212	106	200	3.92	
DRO >C10-C28*	<10.0	10.0	08/24/2021	ND	193	96.6	200	2.32	
EXT DRO >C28-C36	<10.0	10.0	08/24/2021	ND					

Surrogate: 1-Chlorooctane 73.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 71.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/23/2021
 Reported: 08/25/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 11 @ 1' (H212250-11)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2021	ND	1.74	87.2	2.00	4.37		
Toluene*	<0.050	0.050	08/24/2021	ND	1.89	94.7	2.00	3.35		
Ethylbenzene*	<0.050	0.050	08/24/2021	ND	1.85	92.6	2.00	3.76		
Total Xylenes*	<0.150	0.150	08/24/2021	ND	5.66	94.3	6.00	3.38		
Total BTEx	<0.300	0.300	08/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 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	<16.0	16.0	08/24/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2021	ND	212	106	200	3.92	
DRO >C10-C28*	<10.0	10.0	08/24/2021	ND	193	96.6	200	2.32	
EXT DRO >C28-C36	<10.0	10.0	08/24/2021	ND					

Surrogate: 1-Chlorooctane 77.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.3 % 38.9-142

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/23/2021
 Reported: 08/25/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 12 @ 1' (H212250-12)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2021	ND	1.74	87.2	2.00	4.37		
Toluene*	<0.050	0.050	08/24/2021	ND	1.89	94.7	2.00	3.35		
Ethylbenzene*	<0.050	0.050	08/24/2021	ND	1.85	92.6	2.00	3.76		
Total Xylenes*	<0.150	0.150	08/24/2021	ND	5.66	94.3	6.00	3.38		
Total BTEx	<0.300	0.300	08/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	<16.0	16.0	08/24/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2021	ND	212	106	200	3.92	
DRO >C10-C28*	<10.0	10.0	08/24/2021	ND	193	96.6	200	2.32	
EXT DRO >C28-C36	<10.0	10.0	08/24/2021	ND					

Surrogate: 1-Chlorooctane 75.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 71.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/23/2021
 Reported: 08/25/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 13 @ 1' (H212250-13)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2021	ND	1.74	87.2	2.00	4.37		
Toluene*	<0.050	0.050	08/24/2021	ND	1.89	94.7	2.00	3.35		
Ethylbenzene*	<0.050	0.050	08/24/2021	ND	1.85	92.6	2.00	3.76		
Total Xylenes*	<0.150	0.150	08/24/2021	ND	5.66	94.3	6.00	3.38		
Total BTEx	<0.300	0.300	08/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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	<16.0	16.0	08/24/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2021	ND	212	106	200	3.92	
DRO >C10-C28*	<10.0	10.0	08/24/2021	ND	193	96.6	200	2.32	
EXT DRO >C28-C36	<10.0	10.0	08/24/2021	ND					

Surrogate: 1-Chlorooctane 75.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 71.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/23/2021
 Reported: 08/25/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 14 @ 1' (H212250-14)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2021	ND	1.74	87.2	2.00	4.37		
Toluene*	<0.050	0.050	08/24/2021	ND	1.89	94.7	2.00	3.35		
Ethylbenzene*	<0.050	0.050	08/24/2021	ND	1.85	92.6	2.00	3.76		
Total Xylenes*	<0.150	0.150	08/24/2021	ND	5.66	94.3	6.00	3.38		
Total BTEx	<0.300	0.300	08/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	<16.0	16.0	08/24/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2021	ND	212	106	200	3.92	
DRO >C10-C28*	198	10.0	08/24/2021	ND	193	96.6	200	2.32	
EXT DRO >C28-C36	38.9	10.0	08/24/2021	ND					

Surrogate: 1-Chlorooctane 76.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 71.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/23/2021
 Reported: 08/25/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 15 @ 1' (H212250-15)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2021	ND	1.74	87.2	2.00	4.37		
Toluene*	<0.050	0.050	08/24/2021	ND	1.89	94.7	2.00	3.35		
Ethylbenzene*	<0.050	0.050	08/24/2021	ND	1.85	92.6	2.00	3.76		
Total Xylenes*	<0.150	0.150	08/24/2021	ND	5.66	94.3	6.00	3.38		
Total BTEx	<0.300	0.300	08/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	<16.0	16.0	08/24/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2021	ND	212	106	200	3.92	
DRO >C10-C28*	<10.0	10.0	08/24/2021	ND	193	96.6	200	2.32	
EXT DRO >C28-C36	<10.0	10.0	08/24/2021	ND					

Surrogate: 1-Chlorooctane 74.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.0 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/23/2021
 Reported: 08/25/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 16 @ 1' (H212250-16)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2021	ND	1.74	87.2	2.00	4.37		
Toluene*	<0.050	0.050	08/24/2021	ND	1.89	94.7	2.00	3.35		
Ethylbenzene*	<0.050	0.050	08/24/2021	ND	1.85	92.6	2.00	3.76		
Total Xylenes*	<0.150	0.150	08/24/2021	ND	5.66	94.3	6.00	3.38		
Total BTEx	<0.300	0.300	08/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	<16.0	16.0	08/24/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2021	ND	212	106	200	3.92	
DRO >C10-C28*	<10.0	10.0	08/24/2021	ND	193	96.6	200	2.32	
EXT DRO >C28-C36	<10.0	10.0	08/24/2021	ND					

Surrogate: 1-Chlorooctane 72.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 70.1 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/23/2021
 Reported: 08/25/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 17 @ 1' (H212250-17)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2021	ND	1.74	87.2	2.00	4.37		
Toluene*	<0.050	0.050	08/24/2021	ND	1.89	94.7	2.00	3.35		
Ethylbenzene*	<0.050	0.050	08/24/2021	ND	1.85	92.6	2.00	3.76		
Total Xylenes*	<0.150	0.150	08/24/2021	ND	5.66	94.3	6.00	3.38		
Total BTEx	<0.300	0.300	08/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	<16.0	16.0	08/24/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2021	ND	209	104	200	0.788	
DRO >C10-C28*	<10.0	10.0	08/24/2021	ND	220	110	200	0.628	
EXT DRO >C28-C36	<10.0	10.0	08/24/2021	ND					

Surrogate: 1-Chlorooctane 75.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 73.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/23/2021
 Reported: 08/25/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W 1 BGS 0-1' (H212250-18)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2021	ND	1.74	87.2	2.00	4.37		
Toluene*	<0.050	0.050	08/24/2021	ND	1.89	94.7	2.00	3.35		
Ethylbenzene*	<0.050	0.050	08/24/2021	ND	1.85	92.6	2.00	3.76		
Total Xylenes*	<0.150	0.150	08/24/2021	ND	5.66	94.3	6.00	3.38		
Total BTEx	<0.300	0.300	08/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	<16.0	16.0	08/24/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2021	ND	209	104	200	0.788	
DRO >C10-C28*	<10.0	10.0	08/24/2021	ND	220	110	200	0.628	
EXT DRO >C28-C36	<10.0	10.0	08/24/2021	ND					

Surrogate: 1-Chlorooctane 53.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 52.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/23/2021
 Reported: 08/25/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W 2 BGS 0-1' (H212250-19)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2021	ND	1.74	87.2	2.00	4.37		
Toluene*	<0.050	0.050	08/24/2021	ND	1.89	94.7	2.00	3.35		
Ethylbenzene*	<0.050	0.050	08/24/2021	ND	1.85	92.6	2.00	3.76		
Total Xylenes*	<0.150	0.150	08/24/2021	ND	5.66	94.3	6.00	3.38		
Total BTEX	<0.300	0.300	08/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	<16.0	16.0	08/24/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2021	ND	209	104	200	0.788	
DRO >C10-C28*	<10.0	10.0	08/24/2021	ND	220	110	200	0.628	
EXT DRO >C28-C36	<10.0	10.0	08/24/2021	ND					

Surrogate: 1-Chlorooctane 67.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 65.0 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/23/2021
 Reported: 08/25/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W 3 BGS 0-1' (H212250-20)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2021	ND	1.74	87.2	2.00	4.37		
Toluene*	<0.050	0.050	08/24/2021	ND	1.89	94.7	2.00	3.35		
Ethylbenzene*	<0.050	0.050	08/24/2021	ND	1.85	92.6	2.00	3.76		
Total Xylenes*	<0.150	0.150	08/24/2021	ND	5.66	94.3	6.00	3.38		
Total BTEX	<0.300	0.300	08/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	<16.0	16.0	08/24/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2021	ND	209	104	200	0.788	
DRO >C10-C28*	<10.0	10.0	08/24/2021	ND	220	110	200	0.628	
EXT DRO >C28-C36	<10.0	10.0	08/24/2021	ND					

Surrogate: 1-Chlorooctane 62.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 60.6 % 38.9-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/23/2021
 Reported: 08/25/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/23/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 18 @ 4' (H212250-21)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/24/2021	ND	1.74	87.2	2.00	4.37		
Toluene*	<0.050	0.050	08/24/2021	ND	1.89	94.7	2.00	3.35		
Ethylbenzene*	<0.050	0.050	08/24/2021	ND	1.85	92.6	2.00	3.76		
Total Xylenes*	<0.150	0.150	08/24/2021	ND	5.66	94.3	6.00	3.38		
Total BTEx	<0.300	0.300	08/24/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	656	16.0	08/24/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/25/2021	ND	209	104	200	0.788	
DRO >C10-C28*	<10.0	10.0	08/25/2021	ND	220	110	200	0.628	
EXT DRO >C28-C36	<10.0	10.0	08/25/2021	ND					

Surrogate: 1-Chlorooctane 125 % 44.3-133

Surrogate: 1-Chlorooctadecane 124 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

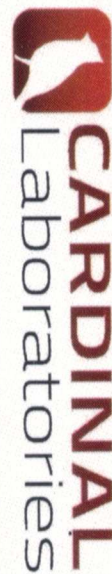
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apac Inc		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Jeff Brown		Company:					
Address:		Attn:					
City: Hobbs		Address:					
Phone #:		City:					
Project #:		State:		Zip:			
Project Name:		Phone #:					
Project Location: Hwy A-17		Fax #:					
Sample Name: Jac Quisada Jr.		PRESERV:		SAMPLING			
FOR LAB USE ONLY		MATRIX					
Lab I.D.		(G)RAB OR (C)OMP.					
Sample I.D.		# CONTAINERS					
		GROUNDWATER					
		WASTEWATER					
		SOIL					
		OIL					
		SLUDGE					
		OTHER :					
		ACID/BASE:					
		CE / COOL					
		OTHER :					
		DATE		TIME			
H212AS0		8/23		9:34		CE	
1 B1 @1'		8/23		9:34		EXT TPH	
2 B2 @1'		8/23		9:40		BTEX	
3 B3 @1'		8/23		9:40			
4 B4 @1'		8/23		9:44			
5 B5 @1'		8/23		9:46			
6 B6 @1'		8/23		9:48			
7 B7 @1'		8/23		9:50			
8 B8 @1'		8/23		9:52			
9 B9 @1'		8/23		9:54			
10 B10 @1'		8/23		9:54			
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Relinquished By: Jac Quisada Jr.		Received By: Jac Quisada Jr.		All Results are emailed. Please provide Email address:			
Date: 8/23		Time: 9:45		REMARKS:			
Observed Temp. °C 4.3		Sample Condition <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact		CHECKED BY: J.D.			
Corrected Temp. °C		Thermometer ID #113 <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Standard		Bacteria (only) <input type="checkbox"/> Cool <input type="checkbox"/> Intact			
Turnaround Time:		Correction Factor None		Sample Condition <input type="checkbox"/> Observed Temp. °C			



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Apacue</u> Project Manager: <u>Jeff Brown</u> Address: City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u> Phone #: Fax #: Project #: Project Owner: Project Name: Project Location: <u>Hawk 12-17</u> Sample Name: <u>See Quiscabadi</u> FOR LAB USE ONLY				BILL TO P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST											
Lab I.D. <u>#212250</u>		Sample I.D. 		(G)RAB OR (C)OMP 	# CONTAINERS 	MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :	PRESERV ACID/BASE : ICE COOL OTHER :	DATE 	TIME 										
11	B11 @ 1'					X		8/23	9:56	X	X	X							
12	B12 @ 1'					X		8/23	9:58	X	X	X							
13	B13 @ 1'					X		8/23	10:00	X	X	X							
14	B14 @ 1'					X		8/23	10:02	X	X	X							
15	B15 @ 1'					X		8/23	10:04	X	X	X							
16	B16 @ 1'					X		8/23	10:06	X	X	X							
17	B17 @ 1'					X		8/23	10:08	X	X	X							
18	B18 @ 0-1'					X		8/23	10:10	X	X	X							
19	B19 @ 0-1'					X		8/23	10:12	X	X	X							
20	B20 @ 0-1'					X		8/23	10:14	X	X	X							

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Relinquished By: Donna Dumbauld **Date:** 8/23 **Time:** 9:43
Received By: Janet L. Dumbauld **Date:** 8/23 **Time:** 9:43
Relinquished By: Donna Dumbauld **Date:** 8/23 **Time:** 9:43
Received By: Janet L. Dumbauld **Date:** 8/23 **Time:** 9:43

Delivered By: (Circle One) Observed Temp. °C 4.3 **Sample Condition** Cool Intact
Sampler - UPS - Bus - Other: Corrected Temp. °C 4.3 **Checked By:** AD
Thermometer ID #113 **Standard** Rush **Bacteria (only)** Cool Intact
Correction Factor None **Observed Temp. °C** **Corrected Temp. °C**

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



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(575) 393-2326 F-Ax (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

August 31, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: HAWK A - 17

Enclosed are the results of analyses for samples received by the laboratory on 08/30/21 16:55.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/30/2021
 Reported: 08/31/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/30/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: B 2 @ 1' (H212348-01)

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	08/31/2021	ND	1.80	90.0	2.00	3.51	
Toluene*	<0.050	0.050	08/31/2021	ND	1.97	98.4	2.00	2.78	
Ethylbenzene*	<0.050	0.050	08/31/2021	ND	1.90	95.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	08/31/2021	ND	5.73	95.5	6.00	3.12	
Total BTEX	<0.300	0.300	08/31/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

TPH 8015M			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2021	ND	225	112	200	7.28	
DRO >C10-C28*	29.0	10.0	08/31/2021	ND	217	108	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	08/31/2021	ND					

Surrogate: 1-Chlorooctane 82.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.9 % 38.9-142

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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: 08/30/2021
 Reported: 08/31/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/30/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: B 5 @ 1' (H212348-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2021	ND	1.80	90.0	2.00	3.51	
Toluene*	<0.050	0.050	08/31/2021	ND	1.97	98.4	2.00	2.78	
Ethylbenzene*	<0.050	0.050	08/31/2021	ND	1.90	95.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	08/31/2021	ND	5.73	95.5	6.00	3.12	
Total BTX	<0.300	0.300	08/31/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2021	ND	225	112	200	7.28	
DRO >C10-C28*	76.7	10.0	08/31/2021	ND	217	108	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	08/31/2021	ND					

Surrogate: 1-Chlorooctane 76.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 76.0 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/30/2021
 Reported: 08/31/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/30/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: B 7 @ 1' (H212348-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2021	ND	1.80	90.0	2.00	3.51	
Toluene*	<0.050	0.050	08/31/2021	ND	1.97	98.4	2.00	2.78	
Ethylbenzene*	<0.050	0.050	08/31/2021	ND	1.90	95.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	08/31/2021	ND	5.73	95.5	6.00	3.12	
Total BTX	<0.300	0.300	08/31/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2021	ND	225	112	200	7.28	
DRO >C10-C28*	<10.0	10.0	08/31/2021	ND	217	108	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	08/31/2021	ND					

Surrogate: 1-Chlorooctane 66.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 63.9 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/30/2021
 Reported: 08/31/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/30/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: B 8 @ 1' (H212348-04)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/31/2021	ND	1.80	90.0	2.00	3.51	
Toluene*	<0.050	0.050	08/31/2021	ND	1.97	98.4	2.00	2.78	
Ethylbenzene*	<0.050	0.050	08/31/2021	ND	1.90	95.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	08/31/2021	ND	5.73	95.5	6.00	3.12	
Total BTX	<0.300	0.300	08/31/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2021	ND	225	112	200	7.28	
DRO >C10-C28*	20.1	10.0	08/31/2021	ND	217	108	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	08/31/2021	ND					

Surrogate: 1-Chlorooctane 69.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 67.1 % 38.9-142

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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: 08/30/2021
 Reported: 08/31/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 08/30/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: B 14 @ 1' (H212348-05)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/31/2021	ND	1.80	90.0	2.00	3.51		
Toluene*	<0.050	0.050	08/31/2021	ND	1.97	98.4	2.00	2.78		
Ethylbenzene*	<0.050	0.050	08/31/2021	ND	1.90	95.2	2.00	3.27		
Total Xylenes*	<0.150	0.150	08/31/2021	ND	5.73	95.5	6.00	3.12		
Total BTX	<0.300	0.300	08/31/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/31/2021	ND	225	112	200	7.28	
DRO >C10-C28*	<10.0	10.0	08/31/2021	ND	217	108	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	08/31/2021	ND					

Surrogate: 1-Chlorooctane 80.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 8 of 8



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

September 02, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: HAWK A - 17

Enclosed are the results of analyses for samples received by the laboratory on 09/01/21 11:35.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/01/2021
 Reported: 09/02/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 09/01/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: E WALL BGS 1-4' (H212368-01)

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	09/01/2021	ND	1.87	93.7	2.00	6.88	
Toluene*	<0.050	0.050	09/01/2021	ND	2.04	102	2.00	6.45	
Ethylbenzene*	<0.050	0.050	09/01/2021	ND	2.01	101	2.00	6.78	
Total Xylenes*	<0.150	0.150	09/01/2021	ND	6.07	101	6.00	6.88	
Total BTEX	<0.300	0.300	09/01/2021	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	3320	16.0	09/01/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2021	ND	197	98.5	200	2.24	
DRO >C10-C28*	<10.0	10.0	09/02/2021	ND	213	107	200	2.75	
EXT DRO >C28-C36	<10.0	10.0	09/02/2021	ND					

Surrogate: 1-Chlorooctane 80.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 70.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/01/2021
 Reported: 09/02/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 09/01/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: B 21 @ 2' (H212368-02)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/01/2021	ND	1.87	93.7	2.00	6.88		
Toluene*	<0.050	0.050	09/01/2021	ND	2.04	102	2.00	6.45		
Ethylbenzene*	<0.050	0.050	09/01/2021	ND	2.01	101	2.00	6.78		
Total Xylenes*	<0.150	0.150	09/01/2021	ND	6.07	101	6.00	6.88		
Total BTX	<0.300	0.300	09/01/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	3920	16.0	09/01/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2021	ND	197	98.5	200	2.24	
DRO >C10-C28*	<10.0	10.0	09/02/2021	ND	213	107	200	2.75	
EXT DRO >C28-C36	<10.0	10.0	09/02/2021	ND					

Surrogate: 1-Chlorooctane 77.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 67.7 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/01/2021
 Reported: 09/02/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 09/01/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: W 4 @ SURFACE (H212368-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2021	ND	1.87	93.7	2.00	6.88	
Toluene*	<0.050	0.050	09/01/2021	ND	2.04	102	2.00	6.45	
Ethylbenzene*	<0.050	0.050	09/01/2021	ND	2.01	101	2.00	6.78	
Total Xylenes*	<0.150	0.150	09/01/2021	ND	6.07	101	6.00	6.88	
Total BTX	<0.300	0.300	09/01/2021	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	4640	16.0	09/01/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2021	ND	197	98.5	200	2.24	
DRO >C10-C28*	26.2	10.0	09/02/2021	ND	213	107	200	2.75	
EXT DRO >C28-C36	13.7	10.0	09/02/2021	ND					

Surrogate: 1-Chlorooctane 82.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 71.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/01/2021
 Reported: 09/02/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 09/01/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: B 22 @ SURFACE (H212368-04)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/01/2021	ND	1.87	93.7	2.00	6.88		
Toluene*	<0.050	0.050	09/01/2021	ND	2.04	102	2.00	6.45		
Ethylbenzene*	<0.050	0.050	09/01/2021	ND	2.01	101	2.00	6.78		
Total Xylenes*	<0.150	0.150	09/01/2021	ND	6.07	101	6.00	6.88		
Total BTX	<0.300	0.300	09/01/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	1820	16.0	09/01/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2021	ND	197	98.5	200	2.24	
DRO >C10-C28*	<10.0	10.0	09/02/2021	ND	213	107	200	2.75	
EXT DRO >C28-C36	<10.0	10.0	09/02/2021	ND					

Surrogate: 1-Chlorooctane 82.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/01/2021
 Reported: 09/02/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 09/01/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: B 23 @ SURFACE (H212368-05)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2021	ND	1.87	93.7	2.00	6.88	
Toluene*	<0.050	0.050	09/01/2021	ND	2.04	102	2.00	6.45	
Ethylbenzene*	<0.050	0.050	09/01/2021	ND	2.01	101	2.00	6.78	
Total Xylenes*	<0.150	0.150	09/01/2021	ND	6.07	101	6.00	6.88	
Total BTX	<0.300	0.300	09/01/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	3480	16.0	09/01/2021	ND	416	104	400	3.77	QM-07	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2021	ND	197	98.5	200	2.24	
DRO >C10-C28*	83.1	10.0	09/02/2021	ND	213	107	200	2.75	
EXT DRO >C28-C36	56.2	10.0	09/02/2021	ND					

Surrogate: 1-Chlorooctane 76.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 69.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/01/2021
 Reported: 09/02/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 09/01/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: B 24 @ SURFACE (H212368-06)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2021	ND	1.87	93.7	2.00	6.88	
Toluene*	<0.050	0.050	09/01/2021	ND	2.04	102	2.00	6.45	
Ethylbenzene*	<0.050	0.050	09/01/2021	ND	2.01	101	2.00	6.78	
Total Xylenes*	<0.150	0.150	09/01/2021	ND	6.07	101	6.00	6.88	
Total BTX	<0.300	0.300	09/01/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	1440	16.0	09/01/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2021	ND	197	98.5	200	2.24	
DRO >C10-C28*	120	10.0	09/02/2021	ND	213	107	200	2.75	
EXT DRO >C28-C36	129	10.0	09/02/2021	ND					

Surrogate: 1-Chlorooctane 84.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 74.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/01/2021
 Reported: 09/02/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 09/01/2021
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: E WALL BGS 0-2' (H212368-07)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/01/2021	ND	1.87	93.7	2.00	6.88		
Toluene*	<0.050	0.050	09/01/2021	ND	2.04	102	2.00	6.45		
Ethylbenzene*	<0.050	0.050	09/01/2021	ND	2.01	101	2.00	6.78		
Total Xylenes*	<0.150	0.150	09/01/2021	ND	6.07	101	6.00	6.88		
Total BTX	<0.300	0.300	09/01/2021	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	2600	16.0	09/01/2021	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/02/2021	ND	197	98.5	200	2.24	
DRO >C10-C28*	<10.0	10.0	09/02/2021	ND	213	107	200	2.75	
EXT DRO >C28-C36	10.1	10.0	09/02/2021	ND					

Surrogate: 1-Chlorooctane 61.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 53.2 % 38.9-142

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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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

September 03, 2021

JEFFREY BROOM

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: HAWK A - 17

Enclosed are the results of analyses for samples received by the laboratory on 09/02/21 17:10.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/02/2021
 Reported: 09/03/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 09/02/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: EW #2 @ 4' (H212408-01)

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	09/03/2021	ND	1.88	94.2	2.00	5.70	
Toluene*	<0.050	0.050	09/03/2021	ND	2.07	103	2.00	6.55	
Ethylbenzene*	<0.050	0.050	09/03/2021	ND	2.02	101	2.00	5.94	
Total Xylenes*	<0.150	0.150	09/03/2021	ND	6.12	102	6.00	5.70	
Total BTEX	<0.300	0.300	09/03/2021	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	09/03/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2021	ND	222	111	200	2.31	
DRO >C10-C28*	<10.0	10.0	09/03/2021	ND	215	107	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	09/03/2021	ND					

Surrogate: 1-Chlorooctane 88.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/02/2021
 Reported: 09/03/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 09/02/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: WW #1 @ 4' (H212408-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/03/2021	ND	1.88	94.2	2.00	5.70	
Toluene*	<0.050	0.050	09/03/2021	ND	2.07	103	2.00	6.55	
Ethylbenzene*	<0.050	0.050	09/03/2021	ND	2.02	101	2.00	5.94	
Total Xylenes*	<0.150	0.150	09/03/2021	ND	6.12	102	6.00	5.70	
Total BTX	<0.300	0.300	09/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/03/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2021	ND	222	111	200	2.31	
DRO >C10-C28*	<10.0	10.0	09/03/2021	ND	215	107	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	09/03/2021	ND					

Surrogate: 1-Chlorooctane 86.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/02/2021
 Reported: 09/03/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 09/02/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: NW @ 4' (H212408-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/03/2021	ND	1.88	94.2	2.00	5.70	
Toluene*	<0.050	0.050	09/03/2021	ND	2.07	103	2.00	6.55	
Ethylbenzene*	<0.050	0.050	09/03/2021	ND	2.02	101	2.00	5.94	
Total Xylenes*	<0.150	0.150	09/03/2021	ND	6.12	102	6.00	5.70	
Total BTX	<0.300	0.300	09/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/03/2021	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2021	ND	222	111	200	2.31	
DRO >C10-C28*	<10.0	10.0	09/03/2021	ND	215	107	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	09/03/2021	ND					

Surrogate: 1-Chlorooctane 86.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/02/2021
 Reported: 09/03/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 09/02/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: WW #2 @ 4' (H212408-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/03/2021	ND	1.88	94.2	2.00	5.70	
Toluene*	<0.050	0.050	09/03/2021	ND	2.07	103	2.00	6.55	
Ethylbenzene*	<0.050	0.050	09/03/2021	ND	2.02	101	2.00	5.94	
Total Xylenes*	<0.150	0.150	09/03/2021	ND	6.12	102	6.00	5.70	
Total BTEx	<0.300	0.300	09/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	09/03/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2021	ND	222	111	200	2.31	
DRO >C10-C28*	<10.0	10.0	09/03/2021	ND	215	107	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	09/03/2021	ND					

Surrogate: 1-Chlorooctane 77.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 73.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

September 07, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: HAWK A - 17

Enclosed are the results of analyses for samples received by the laboratory on 09/03/21 12:00.

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, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/03/2021
 Reported: 09/07/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 18 @ 4' (H212417-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/03/2021	ND	1.98	99.2	2.00	9.62	
Toluene*	<0.050	0.050	09/03/2021	ND	2.00	100	2.00	9.33	
Ethylbenzene*	<0.050	0.050	09/03/2021	ND	2.00	100	2.00	6.56	
Total Xylenes*	<0.150	0.150	09/03/2021	ND	6.15	103	6.00	6.87	
Total BTX	<0.300	0.300	09/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	784	16.0	09/07/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2021	ND	214	107	200	0.547	
DRO >C10-C28*	<10.0	10.0	09/03/2021	ND	211	106	200	0.939	
EXT DRO >C28-C36	<10.0	10.0	09/03/2021	ND					

Surrogate: 1-Chlorooctane 77.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 72.8 % 38.9-142

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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: 09/03/2021
 Reported: 09/07/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 19 @ 4' (H212417-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/03/2021	ND	1.98	99.2	2.00	9.62	
Toluene*	<0.050	0.050	09/03/2021	ND	2.00	100	2.00	9.33	
Ethylbenzene*	<0.050	0.050	09/03/2021	ND	2.00	100	2.00	6.56	
Total Xylenes*	<0.150	0.150	09/03/2021	ND	6.15	103	6.00	6.87	
Total BTX	<0.300	0.300	09/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	09/07/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2021	ND	214	107	200	0.547	
DRO >C10-C28*	<10.0	10.0	09/03/2021	ND	211	106	200	0.939	
EXT DRO >C28-C36	<10.0	10.0	09/03/2021	ND					

Surrogate: 1-Chlorooctane 75.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 71.3 % 38.9-142

Cardinal Laboratories

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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: 09/03/2021
 Reported: 09/07/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 20 @ 4' (H212417-03)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/03/2021	ND	1.98	99.2	2.00	9.62		
Toluene*	<0.050	0.050	09/03/2021	ND	2.00	100	2.00	9.33		
Ethylbenzene*	<0.050	0.050	09/03/2021	ND	2.00	100	2.00	6.56		
Total Xylenes*	<0.150	0.150	09/03/2021	ND	6.15	103	6.00	6.87		
Total BTX	<0.300	0.300	09/03/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1100	16.0	09/07/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2021	ND	214	107	200	0.547	
DRO >C10-C28*	<10.0	10.0	09/03/2021	ND	211	106	200	0.939	
EXT DRO >C28-C36	<10.0	10.0	09/03/2021	ND					

Surrogate: 1-Chlorooctane 72.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 67.6 % 38.9-142

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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: 09/03/2021
 Reported: 09/07/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 25 @ 4' (H212417-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/03/2021	ND	1.98	99.2	2.00	9.62	
Toluene*	<0.050	0.050	09/03/2021	ND	2.00	100	2.00	9.33	
Ethylbenzene*	<0.050	0.050	09/03/2021	ND	2.00	100	2.00	6.56	
Total Xylenes*	<0.150	0.150	09/03/2021	ND	6.15	103	6.00	6.87	
Total BTEx	<0.300	0.300	09/03/2021	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2120	16.0	09/07/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2021	ND	214	107	200	0.547	
DRO >C10-C28*	<10.0	10.0	09/03/2021	ND	211	106	200	0.939	
EXT DRO >C28-C36	<10.0	10.0	09/03/2021	ND					

Surrogate: 1-Chlorooctane 74.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 70.0 % 38.9-142

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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: 09/03/2021
 Reported: 09/07/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 26 @ 4' (H212417-05)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/03/2021	ND	1.98	99.2	2.00	9.62	
Toluene*	<0.050	0.050	09/03/2021	ND	2.00	100	2.00	9.33	
Ethylbenzene*	<0.050	0.050	09/03/2021	ND	2.00	100	2.00	6.56	
Total Xylenes*	<0.150	0.150	09/03/2021	ND	6.15	103	6.00	6.87	
Total BTEx	<0.300	0.300	09/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	09/07/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2021	ND	214	107	200	0.547	
DRO >C10-C28*	<10.0	10.0	09/03/2021	ND	211	106	200	0.939	
EXT DRO >C28-C36	<10.0	10.0	09/03/2021	ND					

Surrogate: 1-Chlorooctane 74.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 70.9 % 38.9-142

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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: 09/03/2021
 Reported: 09/07/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: EW #3 @ 4' (H212417-06)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/03/2021	ND	1.98	99.2	2.00	9.62		
Toluene*	<0.050	0.050	09/03/2021	ND	2.00	100	2.00	9.33		
Ethylbenzene*	<0.050	0.050	09/03/2021	ND	2.00	100	2.00	6.56		
Total Xylenes*	<0.150	0.150	09/03/2021	ND	6.15	103	6.00	6.87		
Total BTEx	<0.300	0.300	09/03/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2440	16.0	09/07/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2021	ND	214	107	200	0.547	
DRO >C10-C28*	<10.0	10.0	09/03/2021	ND	211	106	200	0.939	
EXT DRO >C28-C36	<10.0	10.0	09/03/2021	ND					

Surrogate: 1-Chlorooctane 73.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 68.3 % 38.9-142

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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: 09/03/2021
 Reported: 09/07/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W 4 @ SURFACE (H212417-07)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/03/2021	ND	1.98	99.2	2.00	9.62	
Toluene*	<0.050	0.050	09/03/2021	ND	2.00	100	2.00	9.33	
Ethylbenzene*	<0.050	0.050	09/03/2021	ND	2.00	100	2.00	6.56	
Total Xylenes*	<0.150	0.150	09/03/2021	ND	6.15	103	6.00	6.87	
Total BTX	<0.300	0.300	09/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/07/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2021	ND	214	107	200	0.547	
DRO >C10-C28*	54.2	10.0	09/03/2021	ND	211	106	200	0.939	
EXT DRO >C28-C36	11.3	10.0	09/03/2021	ND					

Surrogate: 1-Chlorooctane 73.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 70.8 % 38.9-142

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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: 09/03/2021
 Reported: 09/07/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: WW #3 @ 4' (H212417-08)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/03/2021	ND	1.98	99.2	2.00	9.62	
Toluene*	<0.050	0.050	09/03/2021	ND	2.00	100	2.00	9.33	
Ethylbenzene*	<0.050	0.050	09/03/2021	ND	2.00	100	2.00	6.56	
Total Xylenes*	<0.150	0.150	09/03/2021	ND	6.15	103	6.00	6.87	
Total BTX	<0.300	0.300	09/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/07/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2021	ND	214	107	200	0.547	
DRO >C10-C28*	59.2	10.0	09/03/2021	ND	211	106	200	0.939	
EXT DRO >C28-C36	16.3	10.0	09/03/2021	ND					

Surrogate: 1-Chlorooctane 76.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 73.4 % 38.9-142

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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: 09/03/2021
 Reported: 09/07/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 27 @ 4' (H212417-09)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/03/2021	ND	1.98	99.2	2.00	9.62	
Toluene*	<0.050	0.050	09/03/2021	ND	2.00	100	2.00	9.33	
Ethylbenzene*	<0.050	0.050	09/03/2021	ND	2.00	100	2.00	6.56	
Total Xylenes*	<0.150	0.150	09/03/2021	ND	6.15	103	6.00	6.87	
Total BTX	<0.300	0.300	09/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1100	16.0	09/07/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2021	ND	214	107	200	0.547	
DRO >C10-C28*	<10.0	10.0	09/03/2021	ND	211	106	200	0.939	
EXT DRO >C28-C36	<10.0	10.0	09/03/2021	ND					

Surrogate: 1-Chlorooctane 78.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 74.1 % 38.9-142

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Analytical Results For:

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

Received: 09/03/2021
 Reported: 09/07/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: B 28 @ 4' (H212417-10)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/03/2021	ND	1.98	99.2	2.00	9.62	
Toluene*	<0.050	0.050	09/03/2021	ND	2.00	100	2.00	9.33	
Ethylbenzene*	<0.050	0.050	09/03/2021	ND	2.00	100	2.00	6.56	
Total Xylenes*	<0.150	0.150	09/03/2021	ND	6.15	103	6.00	6.87	
Total BTX	<0.300	0.300	09/03/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	09/07/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2021	ND	214	107	200	0.547	
DRO >C10-C28*	27.7	10.0	09/03/2021	ND	211	106	200	0.939	
EXT DRO >C28-C36	10.7	10.0	09/03/2021	ND					

Surrogate: 1-Chlorooctane 72.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 69.2 % 38.9-142

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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: 09/03/2021
 Reported: 09/07/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW @ 4' (H212417-11)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/03/2021	ND	1.98	99.2	2.00	9.62		
Toluene*	<0.050	0.050	09/03/2021	ND	2.00	100	2.00	9.33		
Ethylbenzene*	<0.050	0.050	09/03/2021	ND	2.00	100	2.00	6.56		
Total Xylenes*	<0.150	0.150	09/03/2021	ND	6.15	103	6.00	6.87		
Total BTX	<0.300	0.300	09/03/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/07/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/03/2021	ND	214	107	200	0.547	
DRO >C10-C28*	62.1	10.0	09/03/2021	ND	211	106	200	0.939	
EXT DRO >C28-C36	20.3	10.0	09/03/2021	ND					

Surrogate: 1-Chlorooctane 70.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 68.3 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Agave</u> Project Manager: <u>Jeff Brown</u> Address: City: <u>Albuquerque</u> State: <u>NM</u> Zip: <u>87104</u> Phone #: Fax #: Project #: Project Owner: Project Name: Project Location: <u>Hwy 147</u> Sampler Name: <u>Joel Chubbuck</u> FOR LAB USE ONLY		BILL TO P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:		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 rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.		Sample I.D. <u>H218417</u> <u>Lab I.D.</u>		MATRIX (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		PRESERV. DATE TIME		SAMPLING C EXT TPH BTE*	
1 B18 @4 2 B19 @4 3 B20 @4 4 B25 @4 5 B26 @4 6 B27 @4 7 W4 @ Surface 8 W4 #3 @4 9 B27 @4 10 B28 @4		1 1 2 1 3 1 4 1 5 1 6 1 7 1 8 1 9 1 10 1		1 9.3 2 9.3 3 9.3 4 9.3 5 9.3 6 9.3 7 9.3 8 9.3 9 9.3 10 9.3		1 8:58 2 9:00 3 9:02 4 9:04 5 9:06 6 9:12 7 10:14 8 10:24 9 10:26 10 10:46		1 X 2 X 3 X 4 X 5 X 6 X 7 X 8 X 9 X 10 X	
Relinquished By: <u>Joel Chubbuck</u> Date: <u>9/3</u> Time: <u>1200</u> Received By: <u>Monica Chubbuck</u> Date: <u>9/3</u> Time: <u>1200</u>		Delivered By: (Circle One) Observed Temp. °C <u>5.7</u> Corrected Temp. °C Sampler - UPS - Bus - Other:		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Checked BY: (Initials) <u>AC</u>		Turnaround Time: Thermometer ID #113 Correction Factor None Bacteria (only) Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C Corrected Temp. °C			
REMARKS: Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address:		Rush <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Bacteria (only) Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C Corrected Temp. °C							



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Husche</u> Project Manager: <u>Jeff Brown</u> Address: City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u> Phone #: Fax #: Project #: Project Owner: Project Name: Project Location: <u>House D-17</u> Sampler Name: <u>Steve Russell Jr.</u> FOR LAB USE ONLY				BILL TO P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST			
Lab I.D. <u>H212417</u> Sample I.D. <u>11 Su 04</u>		(G)RAB OR (C)OMP. <input checked="" type="checkbox"/> # CONTAINERS MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		PRESERV. ACID/BASE: <input checked="" type="checkbox"/> CE / COOL OTHER:		SAMPLING DATE <u>9-3</u> TIME <u>10:52</u>		X X X CE Ext TPH BTEX			
Relinquished By: <u>Steve Russell Jr.</u> Date: <u>9-3</u> Time: <u>1800</u> Received By: <u>Shirley Delaney</u> Date: Time:		Observed Temp. °C <u>5.7</u> Corrected Temp. °C _____		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/>		CHECKED BY: (Initials) <u>TD</u>		Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Thermometer ID #113 Correction Factor None		Bacteria (only) Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/>	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C <u>5.7</u> Corrected Temp. °C _____		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/>		CHECKED BY: (Initials) <u>TD</u>		Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Thermometer ID #113 Correction Factor None		Bacteria (only) Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/>	
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REMARKS: All Results are emailed. Please provide Email address:											

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



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

September 07, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: HAWK A - 17

Enclosed are the results of analyses for samples received by the laboratory on 09/03/21 15:00.

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, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 09/03/2021
 Reported: 09/07/2021
 Project Name: HAWK A - 17
 Project Number: NONE GIVEN
 Project Location: EUNICE, NM

Sampling Date: 09/03/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: WW #2 @ 4 (H212419-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/07/2021	ND	432	108	400	3.77		

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Aspete</u>		P.O. #:		BILL TO												ANALYSIS REQUEST											
Project Manager: <u>Jeff Brown</u>		Company:																									
Address:		Attn:																									
City: <u>Hobbs</u>		State: <u>NM</u> Zip: <u>88240</u>																									
Phone #:		Fax #:																									
Project #:		Project Owner:																									
Project Name:		City:																									
Project Location: <u>Heule A-17</u>		State:																									
Sampler Name: <u>de Cossco</u>		Phone #:																									
Fax #:		Zip:																									
FOR LAB USE ONLY		PRESERV		SAMPLING																							
Lab I.D.		Sample I.D.																									
4212419		www #2 04																									
		(G)RAB OR (C)OMP.																									
		# CONTAINERS																									
		GROUNDWATER																									
		WASTEWATER																									
		SOIL																									
		OIL																									
		SLUDGE																									
		OTHER :																									
		ACID/BASE:																									
		(ICE) COOL																									
		OTHER :																									
		DATE																									
		TIME																									
		4:3																									
		2:38																									
		CI																									

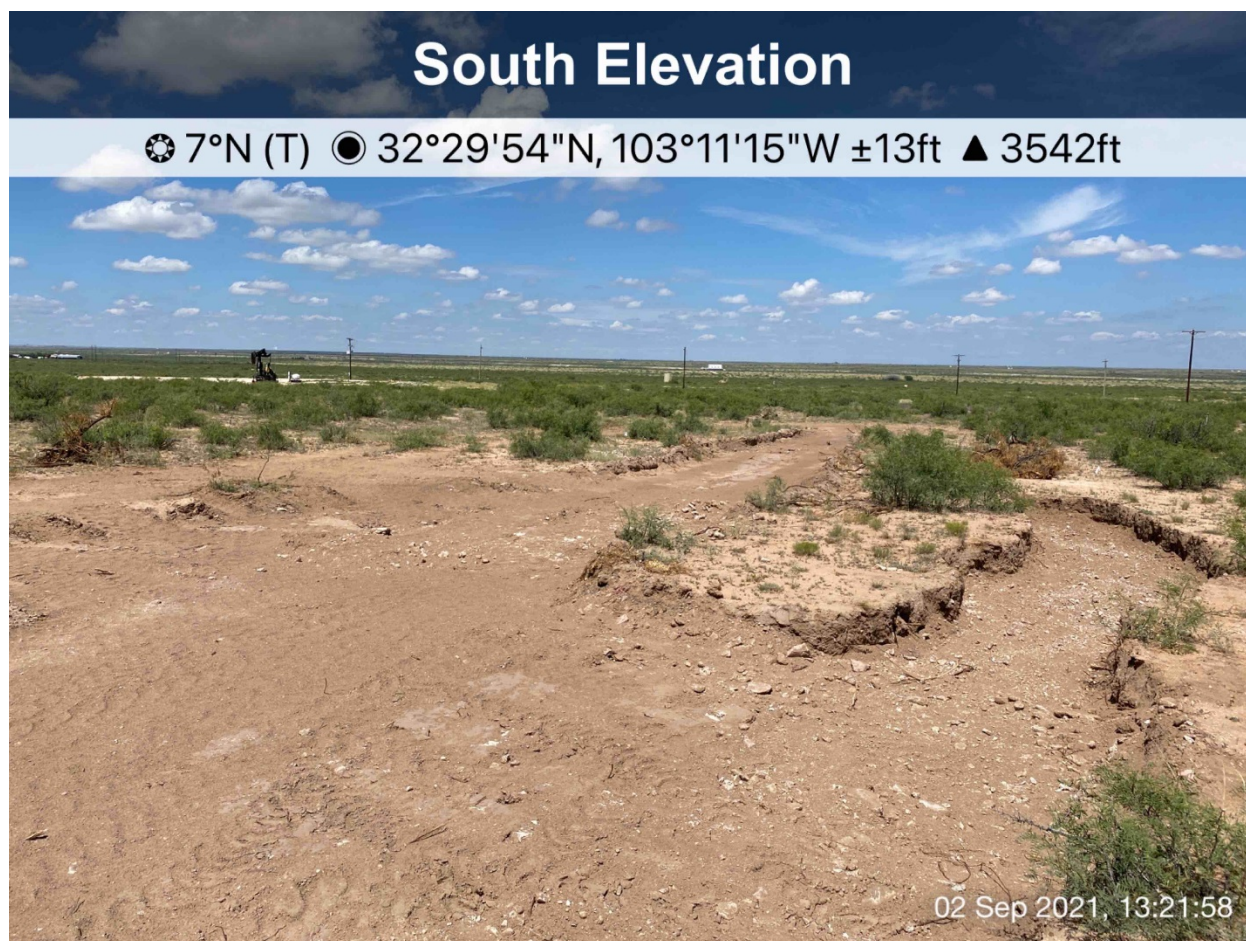
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Relinquished By: <u>Jeff Brown</u>	Date: <u>9-3</u>	Received By: <u>de Cossco</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <u>Jeff Brown</u>	Time: <u>3:00</u>	Received By: <u>de Cossco</u>	All Results are emailed. Please provide Email address:	
Time:				
Delivered By: (Circle One)	Observed Temp. °C <u>4.7</u>	Sample Condition	CHECKED BY: <u>de Cossco</u>	Turnaround Time:
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	(Initials)	Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>
				Bacteria (only) Sample Condition
				Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No
				Observed Temp. °C
				Corrected Temp. °C

FORM 000-R-11-00104/20

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





South East Elevation

☼ 336°NW (T) ● 32°29'52"N, 103°11'16"W ±29ft ▲ 3547ft



South East Elevation

☼ 312°NW (T) ● 32°29'52"N, 103°11'16"W ±16ft ▲ 3546ft



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 46866

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 46866
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NRM2032829991 HAWK A # 17, thank you. This closure is approved.	1/25/2022