

Remediation Plan

April 8, 2021

Re: NMGSAU # 368 Case nAPP2102841286

Background:

On 1/20/2021 a release occurred due to a 3 inch steel flow line failed. The release (GPS: 32.64151, -103.29008) is located west of Monument, New Mexico in unit letter O section 19 township 21S range 37E. A groundwater survey was conducted utilizing NMOSE wells of record. The nearest well of record suggest the groundwater depth below the release to be 21 feet below ground surface.

On 3/9/2021 vertical delineation was conducted utilizing a backhoe. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Laboratory analysis of chloride were above table one standards at SP 2. On 3/15/2021 SP 2 was advanced to a depth of 2 feet. The 2 foot sample collected was submitted to a commercial laboratory for analysis of chloride. On 3/16/2021 horizontal 5 point surface composite samples were collected not to exceed 200 square feet and all samples were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX.

Remediation Plan:

Apache Corporation proposes that the release area around SP 1 be excavated to a depth of 1 foot and the area around SP 2 be excavated to a depth of 2 feet. All excavated soil (108 yards) will be hauled to an OCD approved disposal facility. Once the excavation is complete final 5 point bottom and wall samples will be collected not to exceed 200 square feet. All samples collected will be submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Once laboratory results are below table one standards for releases less than 50 feet to groundwater the excavation will be backfilled with clean imported caliche to restore the lease pad. The remediation will be completed within 90 days of OCD approval of the plan.

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

Submitted by;

Environmental Technician larry.baker@apachecorp.com

Cell# 432-631-6982

Bruce Baker

Released to Imaging: 7/27/2021 7:47:22 AM

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

				OG	OGRID 873		
Contact Name Larry Baker				Cor	Contact Telephone		
Contact email larry.baker@apachecorp.com			Inci	Incident # (assigned by OCD)			
Contact mail	ing address	303 Veterans	s Airpark Lane	e Midland	, TX 7	79705	
			Location	oi Keiea	ise So	ource	
Latitude	32.641	51			Longitude103.29008		
			(NAD 83 in dec	cimal degrees to	o 5 decim	nal places)	
Site Name	NMGSAU	368		Site	Site Type oil well		
Date Release	Discovered	1/20/2021				licable) 30-02	5-38459
TT '. T		T 1:	l p	' I	<u> </u>	, 1	
Unit Letter	Section	Township	Range		Coun	-	
0	19	19S	37E		Lea	3	
Surface Owner: State Federal Tribal Private (Name:)							
			Nature and	l Volum	e of I	Release	
		l(s) Released (Select a	ll that apply and attach	calculations or	specific	justification for the v	volumes provided below)
☐ Crude Oil Volume Released (bbls) 1/2 barrel			rrel	Volume Recovered (bbls) 1/2 barrel			
✓ Produced	Water	Volume Release	ed (bbls) 8 barre	els	Volume Recovered (bbls) 0 barrels		
Is the concentration of dissolved chlorid			hloride in th	е	Yes No)	
produced water >10,000 mg/l? Condensate Volume Released (bbls)				Volume Recovered (bbls)			
☐ Natural Gas Volume Released (Mcf)				Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units		e units)	, ,				
- Statio Weight Released (provide units)			,			4	
Cause of Rel	ease Δ3 ii	nch steel flow	line failed due	to exteri	nal co	rrosion	
	7(01	ion steel new	iii c iaiica aac	o to exteri	iai oc	71001011.	

Received by OCD: 4/8/202 1	1 10:56:00 AM
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Incident ID	
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Application ID	

Was this a major release as defined by	onsible party consider this a major release?
19.15.29.7(A) NMAC?	
☐ Yes ☑ No	
If YES, was immediate notice given to the OCD? By whom? To	whom? When and by what means (phone email etc)?
in 125, was infinediate notice given to the OCD. By whom: 10	viioni: when and by what means (phone, email, etc).
Initial 1	Response
The responsible party must undertake the following actions immedia	tely unless they could create a safety hazard that would result in injury
✓ The source of the release has been stopped.	
☐ The impacted area has been secured to protect human health at	nd the environment.
Released materials have been contained via the use of berms of	dikes, absorbent pads, or other containment devices.
All free liquids and recoverable materials have been removed	and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain	ı why:
	e remediation immediately after discovery of a release. If remediation all efforts have been successfully completed or if the release occurred please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the	
public health or the environment. The acceptance of a C-141 report by the	otifications and perform corrective actions for releases which may endanger e OCD does not relieve the operator of liability should their operations have
	of responsibility for compliance with any other federal, state, or local laws
and/or regulations.	Environmental Tech SD
Printed Name: Larry Baker	Environmental Tech SR.
Signature: Larry Baker	
Printed Name: Larry Baker Signature: Larry Baker email: larry.baker@apachecorp.com	Telephone: 432-631-6982
OCD Only	
Received by:	Date:

Volume Calculation

144.27 cubic feet of soil contamination X 7.48 gallons per cubic foot = 1,079.18 gallons/42 gallons to a barrel= 25.69 barrels X .33 soil porosity= 8.47+ .5 recovered = 8.5 barrels.

Received by OCD: 4/8/2021	10:56:00 AM
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Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)			
Did this release impact groundwater or surface water?	☐ Yes ☑ No			
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No			
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☑ No			
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No			
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No			
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No			
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No			
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No			
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No			
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☑ No			
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No			
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☑ No			
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.				
Characterization Report Checklist: Each of the following items must be included in the report.				
 ✓ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. ✓ Field data ✓ Data table of soil contaminant concentration data ✓ Depth to water determination ✓ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release ✓ Boring or excavation logs ✓ Photographs including date and GIS information ✓ Topographic/Aerial maps ✓ Laboratory data including chain of custody 				

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.			
Printed Name: Larry Baker	Title: Environmental Tech SR.		
Signature: Larry Baker	Date: 4/8/2021		
Signature: Larry Baker email: larry.baker@apachecorp.com Telephone: 432-631-6982			
OCD Only			
Received by:	Date:		

Pa	g	e	7	01	F 3	4
 _	9		_		_	

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must b	e included in the plan.
 ✓ Detailed description of proposed remediation technique ✓ Scaled sitemap with GPS coordinates showing delineation point ✓ Estimated volume of material to be remediated ✓ Closure criteria is to Table 1 specifications subject to 19.15.29. ✓ Proposed schedule for remediation (note if remediation plan times) 	12(C)(4) NMAC
Deferral Requests Only: Each of the following items must be con	nfirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around predeconstruction.	roduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name: Larry Baker	Title: Environmental Tech SR.
Signature: Larry Baker	Date: 4/8/2021
Signature: Larry Baker email: larry.baker@apachecorp.com	Telephone: 432-631-6982
OCD Only	
Received by: Chad Hensley	Date: 07/27/201
☐ Approved with Attached Conditions of	Approval
Signature:	Date: 07/27/201





New Mexico Office of the State Engineer **Point of Diversion Summary**

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

X

L 13525 POD1

Q64 Q16 Q4 Sec Tws Rng 3 19 19S 37E

Y 660096 3612717

Driller License:

1456

Driller Company:

WHITE DRILLING COMPANY

Driller Name:

JOHN W. WHITE

Drill Finish Date:

03/26/2014

Plug Date:

Drill Start Date: Log File Date:

03/26/2014

PCW Rcv Date:

Depth Well:

Source:

Shallow

Pump Type: Casing Size: 08/18/2014

2.00

Pipe Discharge Size:

30 feet

Estimated Yield: Depth Water:

21 feet

Water Bearing Stratifications:

Top

Bottom Description

16

Shale/Mudstone/Siltstone

20

Sandstone/Gravel/Conglomerate

22

Shale/Mudstone/Siltstone

Casing Perforations:

Top Bottom

15 30

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data

4/8/21 10:01 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer **Point of Diversion Summary**

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

Q64 Q16 Q4 Sec Tws Rng

X

19 19S L 01273 37E

660827 3612617*

Driller License:

Driller Company:

Driller Name:

Drill Start Date: 10/08/1936 Drill Finish Date:

10/08/1936

Plug Date:

Log File Date:

12/02/1952

PCW Rcv Date:

08/07/1953

Source:

Shallow

Pump Type: Casing Size: Pipe Discharge Size: Depth Well:

Estimated Yield:

45 feet

6.00

Top

62 feet

Depth Water:

Water Bearing Stratifications:

Bottom Description

45

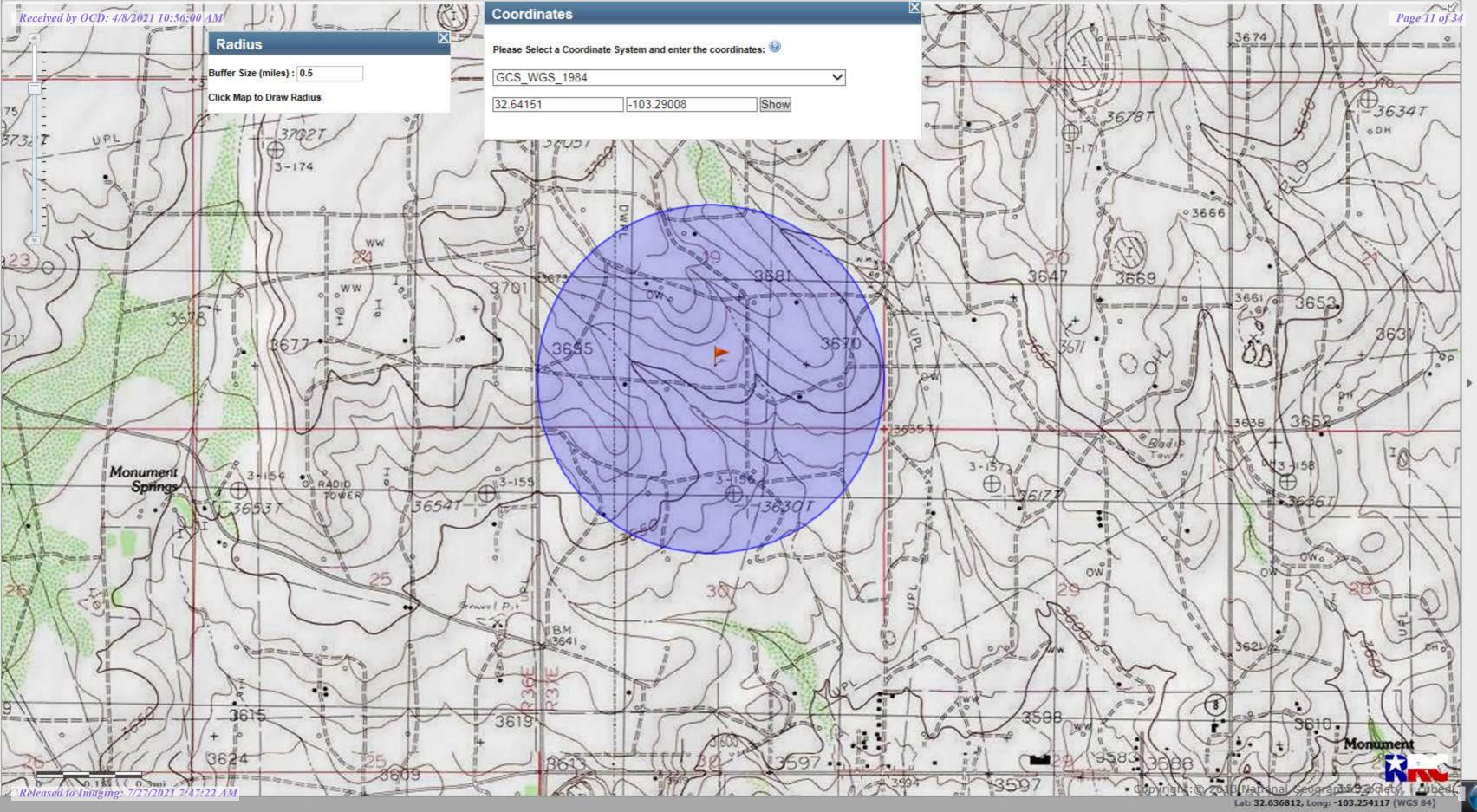
Sandstone/Gravel/Conglomerate

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4/8/21 10:04 AM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



	Sample	Sample ID	Depth	Field	LAB	Benzene	Toulene	Ethybenzene	Total	Total	GRO	DRO	EXT DRO	GPS Coordinates
Map ID	Date			Chloride	Chloride				Xylenes	BTEX				
Delineatio	n Samples													_
														32.6415372
SP1	3/9/2021	SP1 @ Surface	S	1,740	1,540	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0	-103.2898954
	3/9/2021	SP1 @ 1'	1'	213	64	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0	
														32.6414697
SP2	3/9/2021	SP2 @ Surface	S	7,967	11,200	<.050	<.050	<.050	<.150	<.300	<10.0	121	53.2	-103.2901026
	3/9/2021	SP2 @ 1'	1'	244	2,960	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0	
	3/15/2021	SP2 @ 2'	2'	512	304									
Horizontal	Samples	-								•				
														32.641547
HC1	3/16/2021	HC1	S	149	32	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0	-103.289872
														32.641381
HC2	3/16/2021	HC2	S	363	176	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0	-103.290080
														32.641528
HC3	3/16/2021	HC3	S	148	16	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0	-103.290211
														32.641599
HC4	3/16/2021	HC4	S	149	16	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0	-103.289965



March 11, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NMGSAU #368

Enclosed are the results of analyses for samples received by the laboratory on 03/09/21 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/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

 Received:
 03/09/2021

 Reported:
 03/11/2021

 Project Name:
 NMGSAU #368

NONE GIVEN

Project Location: NOT GIVEN

Sampling Date: 03/09/2021

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ SURFACE (H210572-01)

Project Number:

DTEV 0021D

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2021	ND	2.12	106	2.00	2.66	
Toluene*	<0.050	0.050	03/10/2021	ND	2.13	106	2.00	3.12	
Ethylbenzene*	<0.050	0.050	03/10/2021	ND	2.08	104	2.00	2.91	
Total Xylenes*	<0.150	0.150	03/10/2021	ND	6.10	102	6.00	2.80	
Total BTEX	<0.300	0.300	03/10/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1540	16.0	03/11/2021	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2021	ND	208	104	200	1.61	
DRO >C10-C28*	<10.0	10.0	03/10/2021	ND	218	109	200	0.365	
EXT DRO >C28-C36	<10.0	10.0	03/10/2021	ND					
Surrogate: 1-Chlorooctane	83.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	78.7	% 42.2-15	6						

Applymed By MC

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

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

Received: 03/09/2021 Sampling Date: 03/09/2021 Reported: 03/11/2021 Sampling Type: Soil

Project Name: NMGSAU #368 Sampling Condition: ** (See Notes) Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: SP 1 @ 1' (H210572-02)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2021	ND	2.12	106	2.00	2.66	
Toluene*	<0.050	0.050	03/10/2021	ND	2.13	106	2.00	3.12	
Ethylbenzene*	<0.050	0.050	03/10/2021	ND	2.08	104	2.00	2.91	
Total Xylenes*	<0.150	0.150	03/10/2021	ND	6.10	102	6.00	2.80	
Total BTEX	<0.300	0.300	03/10/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/11/2021	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2021	ND	208	104	200	1.61	
DRO >C10-C28*	<10.0	10.0	03/10/2021	ND	218	109	200	0.365	
EXT DRO >C28-C36	<10.0	10.0	03/10/2021	ND					
Surrogate: 1-Chlorooctane	82.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	77.6	% 42.2-15	6						

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene



Analytical Results For:

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

Fax To: (575) 393-2432

Received: 03/09/2021 Sampling Date: 03/09/2021 Reported: Sampling Type: 03/11/2021 Soil

Project Name: NMGSAU #368 Sampling Condition: ** (See Notes) Tamara Oldaker Project Number: NONE GIVEN Sample Received By:

Project Location: **NOT GIVEN**

Sample ID: SP 2 @ SURFACE (H210572-03)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2021	ND	2.12	106	2.00	2.66	
Toluene*	<0.050	0.050	03/10/2021	ND	2.13	106	2.00	3.12	
Ethylbenzene*	<0.050	0.050	03/10/2021	ND	2.08	104	2.00	2.91	
Total Xylenes*	<0.150	0.150	03/10/2021	ND	6.10	102	6.00	2.80	
Total BTEX	<0.300	0.300	03/10/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11200	16.0	03/11/2021	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2021	ND	208	104	200	1.61	
DRO >C10-C28*	121	10.0	03/10/2021	ND	218	109	200	0.365	
EXT DRO >C28-C36	53.2	10.0	03/10/2021	ND					
Surrogate: 1-Chlorooctane	84.6	% 44.3-14	14						
Surrogate: 1-Chlorooctadecane	87.9	% 42.2-15	6						

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Keene



Analytical Results For:

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

Fax To: (575) 393-2432

 Received:
 03/09/2021
 Sampling Date:
 03/09/2021

 Reported:
 03/11/2021
 Sampling Type:
 Soil

Project Name: NMGSAU #368 Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: NOT GIVEN

mg/kg

Sample ID: SP 2 @ 1' (H210572-04)

BTEX 8021B

	9,	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2021	ND	2.12	106	2.00	2.66	
Toluene*	<0.050	0.050	03/10/2021	ND	2.13	106	2.00	3.12	
Ethylbenzene*	<0.050	0.050	03/10/2021	ND	2.08	104	2.00	2.91	
Total Xylenes*	<0.150	0.150	03/10/2021	ND	6.10	102	6.00	2.80	
Total BTEX	<0.300	0.300	03/10/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	03/11/2021	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/10/2021	ND	208	104	200	1.61	
DRO >C10-C28*	<10.0	10.0	03/10/2021	ND	218	109	200	0.365	
EXT DRO >C28-C36	<10.0	10.0	03/10/2021	ND					
Surrogate: 1-Chlorooctane	73.0	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	68.4	% 42.2-15	6						

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Celey D. Keine



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.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keine

Sampler - UPS - Bus - Other:

Corrected Temp. °C

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326 FAX (575) 393-2476	575) 393-2476		ANALYSIS REQUEST
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1 14		P.O. #:	
Address:		Company:	
oh)	State: N.M. Zip: SCHO	Attn:	
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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 pulleable analyses. All claims including those for negligance and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligance 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.	exclusive remedy for any claim arising whether based in contra se whatsoever shall be deemed waived unless made in writing a	act or tort, shall be limited to the amount paid and received by Cardinal within 30 days after loss of profits incurred by cl	by the client for the room to the completion of the applicable feet, its subsidiaries,
service. In no event shall Cardinal be liable for incidental of consequental damages, including minors in the state of the above stated reasons or otherwise. entire court প্ৰায়ণ is based upon any of the above stated reasons or otherwise.	nnal damages, including muleus, mander, before guich ਵੀਸ਼ੀ services hereunder by Cardinal, regardless ਦੂੰ ਮਸੇਵਸ਼ਿਵਾ ਦੁਪਟੇਸ਼ ਵੀਸ਼ੀ	irr is based upon any of the above stated rea	asons or otherwise. ☐ Yes ☐ No Add'l Phone #:
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Relinquished By:	Date: Received By:		REMARKS:
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March 16, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NMGSAU #368

Enclosed are the results of analyses for samples received by the laboratory on 03/15/21 11:52.

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

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

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

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Fax To: (575) 393-2432

Received: 03/15/2021 Sampling Date: 03/15/2021 Reported: 03/16/2021 Sampling Type: Soil

Project Name: NMGSAU #368 Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: SP 2 @ 2' (H210643-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	03/16/2021	ND	400	100	400	0.00	

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



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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Celey D. Keine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

		Page 24 of.
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Commation	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	CARDINAL Laboratories

(5/5) 353-252 (6/6)	BILL TO	
Company Name: Clacke Corporation	P.O. #:	
Project Manager: Gymes Basel	Company:	
Address: Zip:	Attn:	
Fax #:	Address:	
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010	State: Zip:	
Project Name: NMCSAU 368	Phone #:	
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March 22, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NMGSAU #368

Enclosed are the results of analyses for samples received by the laboratory on 03/16/21 15:51.

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

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

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

Celey D. Keine

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,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Fax To: (575) 393-2432

 Received:
 03/16/2021
 Sampling Date:
 03/16/2021

 Reported:
 03/22/2021
 Sampling Type:
 Soil

Project Name: NMGSAU #368 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: H 1 (H210667-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2021	ND	2.11	105	2.00	4.03	
Toluene*	<0.050	0.050	03/18/2021	ND	2.03	102	2.00	4.55	
Ethylbenzene*	<0.050	0.050	03/18/2021	ND	1.99	99.5	2.00	3.73	
Total Xylenes*	<0.150	0.150	03/18/2021	ND	5.92	98.7	6.00	2.78	
Total BTEX	<0.300	0.300	03/18/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/18/2021	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2021	ND	206	103	200	7.30	
DRO >C10-C28*	<10.0	10.0	03/18/2021	ND	210	105	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	03/18/2021	ND					
Surrogate: 1-Chlorooctane	72.5	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	68.5	% 42.2-15	6						

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Celey D. Keene



Analytical Results For:

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

Received: 03/16/2021 Sampling Date: 03/16/2021 Reported: 03/22/2021 Sampling Type: Soil

Project Name: NMGSAU #368 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: H 2 (H210667-02)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2021	ND	2.11	105	2.00	4.03	
Toluene*	<0.050	0.050	03/18/2021	ND	2.03	102	2.00	4.55	
Ethylbenzene*	<0.050	0.050	03/18/2021	ND	1.99	99.5	2.00	3.73	
Total Xylenes*	<0.150	0.150	03/18/2021	ND	5.92	98.7	6.00	2.78	
Total BTEX	<0.300	0.300	03/18/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/18/2021	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2021	ND	206	103	200	7.30	
DRO >C10-C28*	<10.0	10.0	03/18/2021	ND	210	105	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	03/18/2021	ND					
Surrogate: 1-Chlorooctane	74.6	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	70.3	% 42.2-15	6						

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Celeg D. Freene



Analytical Results For:

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

Fax To: (575) 393-2432

Received: 03/16/2021 Sampling Date: 03/16/2021 Reported: 03/22/2021 Sampling Type: Soil

Project Name: NMGSAU #368 Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: H 3 (H210667-03)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2021	ND	2.11	105	2.00	4.03	
Toluene*	<0.050	0.050	03/18/2021	ND	2.03	102	2.00	4.55	
Ethylbenzene*	<0.050	0.050	03/18/2021	ND	1.99	99.5	2.00	3.73	
Total Xylenes*	<0.150	0.150	03/18/2021	ND	5.92	98.7	6.00	2.78	
Total BTEX	<0.300	0.300	03/18/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/18/2021	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2021	ND	206	103	200	7.30	
DRO >C10-C28*	<10.0	10.0	03/18/2021	ND	210	105	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	03/18/2021	ND					
Surrogate: 1-Chlorooctane	84.9	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	83.2	% 42.2-15	6						

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Celeg D. Freene



Analytical Results For:

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

Fax To: (575) 393-2432

 Received:
 03/16/2021
 Sampling Date:
 03/16/2021

 Reported:
 03/22/2021
 Sampling Type:
 Soil

Project Name: NMGSAU #368 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: NOT GIVEN

mg/kg

Sample ID: H 4 (H210667-04)

BTEX 8021B

	9,	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/18/2021	ND	2.11	105	2.00	4.03	
Toluene*	<0.050	0.050	03/18/2021	ND	2.03	102	2.00	4.55	
Ethylbenzene*	<0.050	0.050	03/18/2021	ND	1.99	99.5	2.00	3.73	
Total Xylenes*	<0.150	0.150	03/18/2021	ND	5.92	98.7	6.00	2.78	
Total BTEX	<0.300	0.300	03/18/2021	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/18/2021	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/18/2021	ND	206	103	200	7.30	
DRO >C10-C28*	<10.0	10.0	03/18/2021	ND	210	105	200	6.06	
EXT DRO >C28-C36	<10.0	10.0	03/18/2021	ND					
Surrogate: 1-Chlorooctane	80.3	% 44.3-14	4						
Surrogate: 1-Chlorooctadecane	78.3	% 42.2-15	6						

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Celeg D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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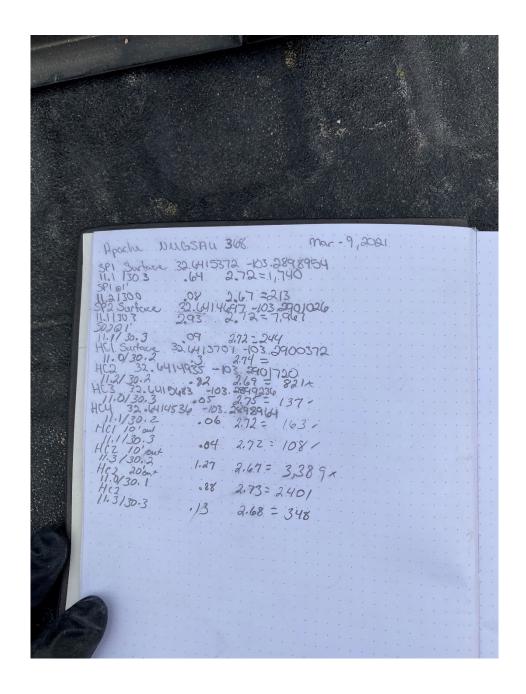
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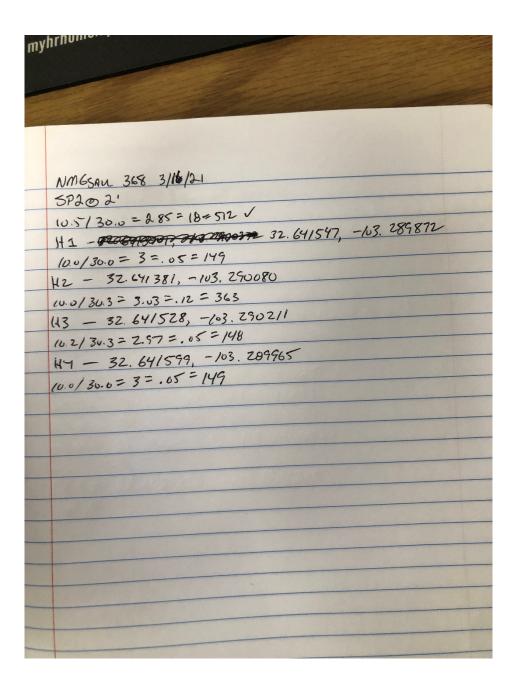
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575)	101 Ea	
393-2	st Mai	
326 F	rland,	1
AX (5	Hobb	1
75) 39	s, NM	
(575) 393-2326 FAX (575) 393-2476	101 East Marland, Hobbs, NM 88240	

Company Name:	11						
Project Manager:	polation		BILL 10			ANALYSIS REQUEST	
DINCE DO	Mar		P.O. #:				
Address:			Company:				
City:	State:	Zip:	Attn:				
Phone #:	Fax #:		Address:	*			
Project #:	Project Owner:		City:				
Project Name: NMGSAU 368	08	-	State: Zip:				
Project Location: NMSSAU 30	368		#				
Sampler Name: JEHF Byrum			Fax #:				
FOR LAB USE ONLY		MATRIX	ESERV.	SAMPLING			
Lab I.D. Sample I.D.		OWATER VATER			TPH		
H210667		# CONT GROUN WASTE SOIL OIL SLUDGI	OTHER ACID/BA CE / CC OTHER DATE	TIME CL	BTE		
1 1/1			03/162	0928	-		
H		~	3/16/21	0530	~		_
3 H3		1	3/11/21	C932 V	1		
4 14			3/10/21	V 4550	-		
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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 consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	e whatsoever shall be dental damages, including we ervices hereunder by Carr	emed walved unless made in writing and rec thout limitation, business interruptions, loss dinal, regardless of whether such claim is by	eived by Cardinal within 30 days after of use, or loss of profits incurred by close of use, or loss of profits incurred by closed upon any of the above stated real sed upon above stated real sed upon any of the above sed upon any of the a	completion of the applicable that, its subsidiaries, sons or otherwise.	0		
Keiiiiquished by:	Date: 3/4/21	Received By:	11/10	Verbal Result:	☐ Yes ☐ No	Add'l Phone #:	
Month	3:51	Menukarka	Wat II	All Kesuits are em	alled. Please pro	All Results are emailed. Please provide Email address:	
Tomorphism by	Time:	Received By:		REMARKS:			
Delivered By: (Circle One) Obser	Observed Temp. °C		34:	Turnaround Time:	Standard	ly) S	on
Sampler - UPS - Bus - Other: Correction	Corrected Temp. °C	Tyes Tyes	(minais)	Thermometer ID #113 Correction Factor None		-	ာ ဂိ ဂိ
- OTHER GOOD IN O. 1 00/04/20				The second secon		Tar harranton contentantial	ip. c

Corrected Temp. °C





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

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 23409

CONDITIONS

Operator:	OGRID:
APACHE CORPORATION	873
303 Veterans Airpark Ln	Action Number:
Midland, TX 79705	23409
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	7/27/2021