



303 Veterans Airpark Lane Midland, TX 79705

Remediation Plan

June 6, 2023

Re: WBDU CTB
Case nAPP2302353335

Background:

On 1/6/2023 a release occurred due a dump valve failure resulting in a tank to overflow. The release (GPS: 32.3440925, -103.2259918) is located south of Eunice, New Mexico in unit letter D section 16 township 21S range 37E. A groundwater survey was conducted utilizing NMOSE wells of record and USGS well data from OCD GIS map. All documented wells in the vicinity of the release were 51-100 feet to groundwater with the nearest well at 70 feet. A plan was submitted and rejected by OCD due to depth of groundwater has not been adequately determined. Apache Corporation believes that the depth of groundwater is adequate but will remediate the release to table one standards for release less than 50 feet in lieu of drilling to determine depth of water.

On 2/14/2023 vertical delineation was conducted at SP1-3 to a depth of 2 and 2.5 feet. 5-point surface horizontal sample was collected not to exceed 200 square feet. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. On 5/17/2023 discrete grab horizontal samples were collected and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX.

Remediation Plan:

Apache Corporation proposes that the release area be excavated to a depth of 2 feet. Final 5-point bottom composite samples will be collected not to exceed 200 square feet. Final 5-point wall composite samples will be collected not to exceed 200 square feet. All samples collected will be submitted a commercial laboratory for analysis of chloride, TPH, and BTEX. All excavated soil (260 yards) will be hauled to an OCD approved disposal facility. Once laboratory analysis is below table one standards for releases less than 50 feet to groundwater. The excavation will be backfilled with clean imported caliche to ground surface. The remediation will be completed within 90 days of OCD approval of the plan.

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

Submitted by.

Larry Baker

Environmental Technician Sr. Staff

larry.baker@apachecorp.com

Cell# 432-250-8384

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>70</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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.

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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. Staff
 Signature: *Larry Baker* Date: 6/6/2023
 email: larry.baker@apachecorp.com Telephone: 432-818-1654

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Larry Baker Title: Environmental Tech Sr. Staff
 Signature: Larry Baker Date: 6/6/2023
 email: larry.baker@apachecorp.com Telephone: 432-818-1654

OCD Only

Received by: _____ Date: _____

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: Nelson Velez Date: 08/31/2023

From: OCDOnline@state.nm.us
To: [Baker, Larry](#)
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 200024
Date: Thursday, April 27, 2023 11:38:50 AM

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

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2302353335, for the following reasons:

- **Remediation Plan Denied.** The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater. Composite confirmation samples will be collected from the bottom and sidewalls of the excavation from areas representing no more than two hundred (200) square feet. Horizontal delineation samples cannot be comprised of 5-pt composite samples, but depth discrete samples. Please resubmit a revised Remediation Plan by May 27, 2023.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 200024.

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

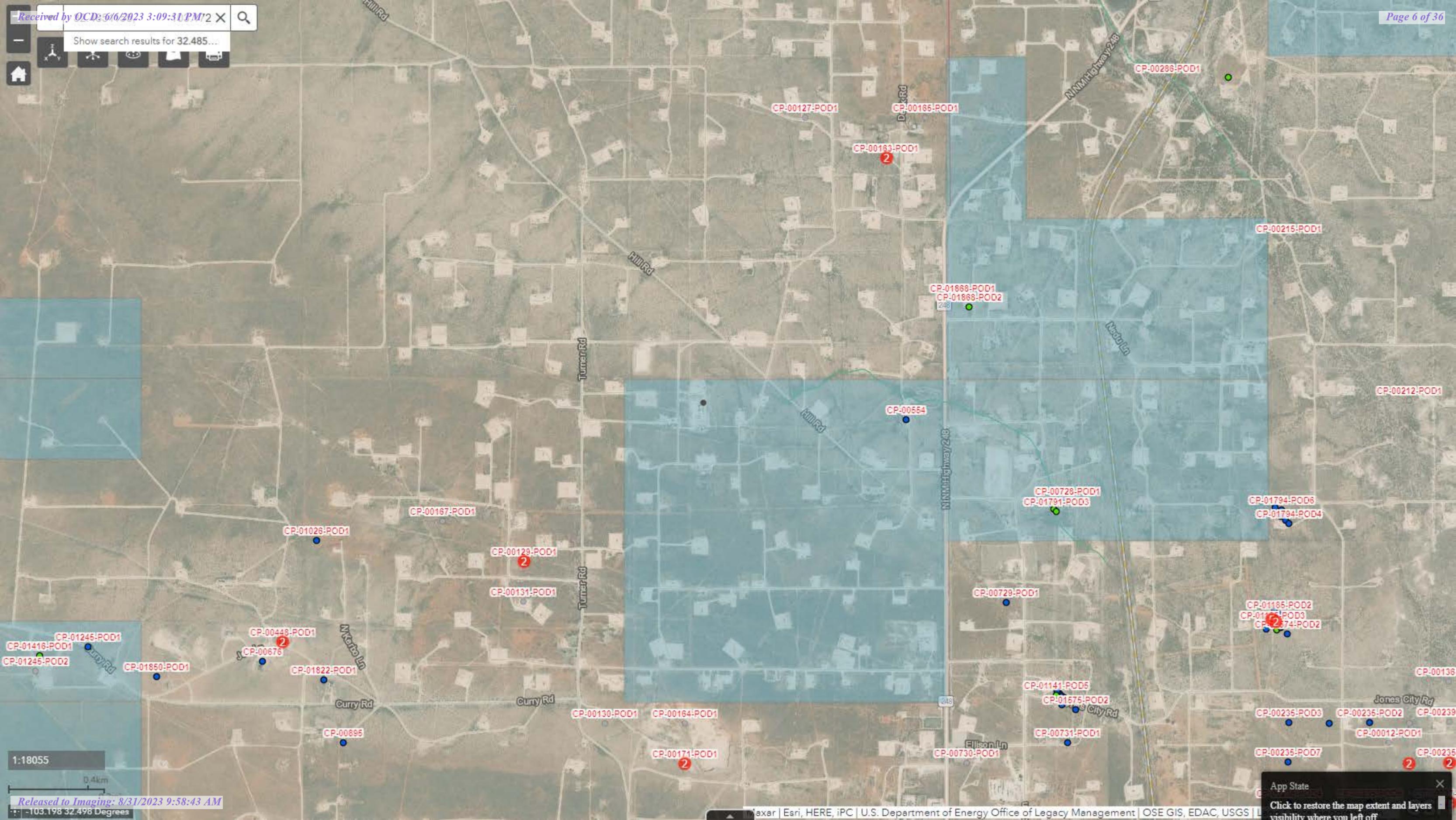
If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Jennifer Nobui
Environmental Specialist-Advanced
505-470-3407
Jennifer.Nobui@emnrd.nm.gov

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

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Show search results for 32.485...



1:18055

0.4km

App State X

Click to restore the map extent and layers visibility where you left off



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	Y
	CP 01026 POD1	1	1	3	17	21S	37E	669809	3594958 <input type="checkbox"/>

Driller License: 1626	Driller Company: TAYLOR, ROY ALLEN		
Driller Name: TAYLOR, ROY ALLEN			
Drill Start Date: 10/12/2009	Drill Finish Date: 10/14/2009	Plug Date:	
Log File Date: 10/23/2009	PCW Rev Date:	Source: Shallow	
Pump Type:	Pipe Discharge Size:	Estimated Yield: 25 GPM	
Casing Size: 5.14	Depth Well: 167 feet	Depth Water: 95 feet	

Water Bearing Stratifications:	Top	Bottom	Description
	95	167	Sandstone/Gravel/Conglomerate

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.

3/23/23 7:19 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)						
Well Tag	POD Number	(quarters are smallest to largest)	(NAD83 UTM in meters)					
		Q64 Q16 Q4 Sec TwS Rng	X	Y				
	CP 00554	2 2 16 21S 37E	672744	3595610*	<input type="checkbox"/>			

Driller License: 208	Driller Company: VAN NOY, W.L.	
Driller Name: VAN NOY, W.L.		
Drill Start Date: 06/01/1976	Drill Finish Date: 06/05/1976	Plug Date:
Log File Date: 04/05/1977	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 5.00	Depth Well: 80 feet	Depth Water: 70 feet

Water Bearing Stratifications:	Top	Bottom	Description
	75	80	Sandstone/Gravel/Conglomerate

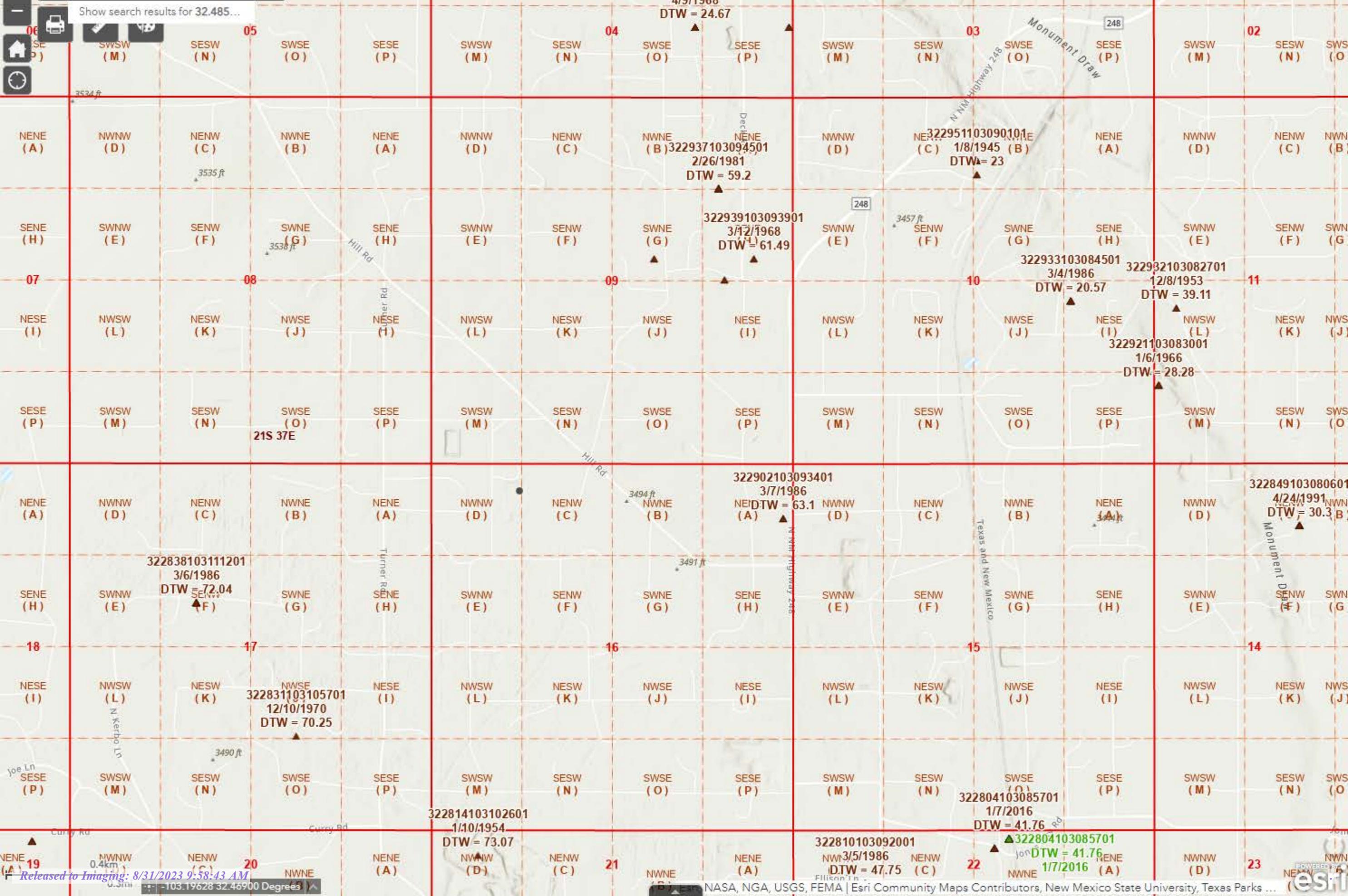
Casing Perforations:	Top	Bottom	
	64	80	

*UTM location was derived from PLSS - see Help

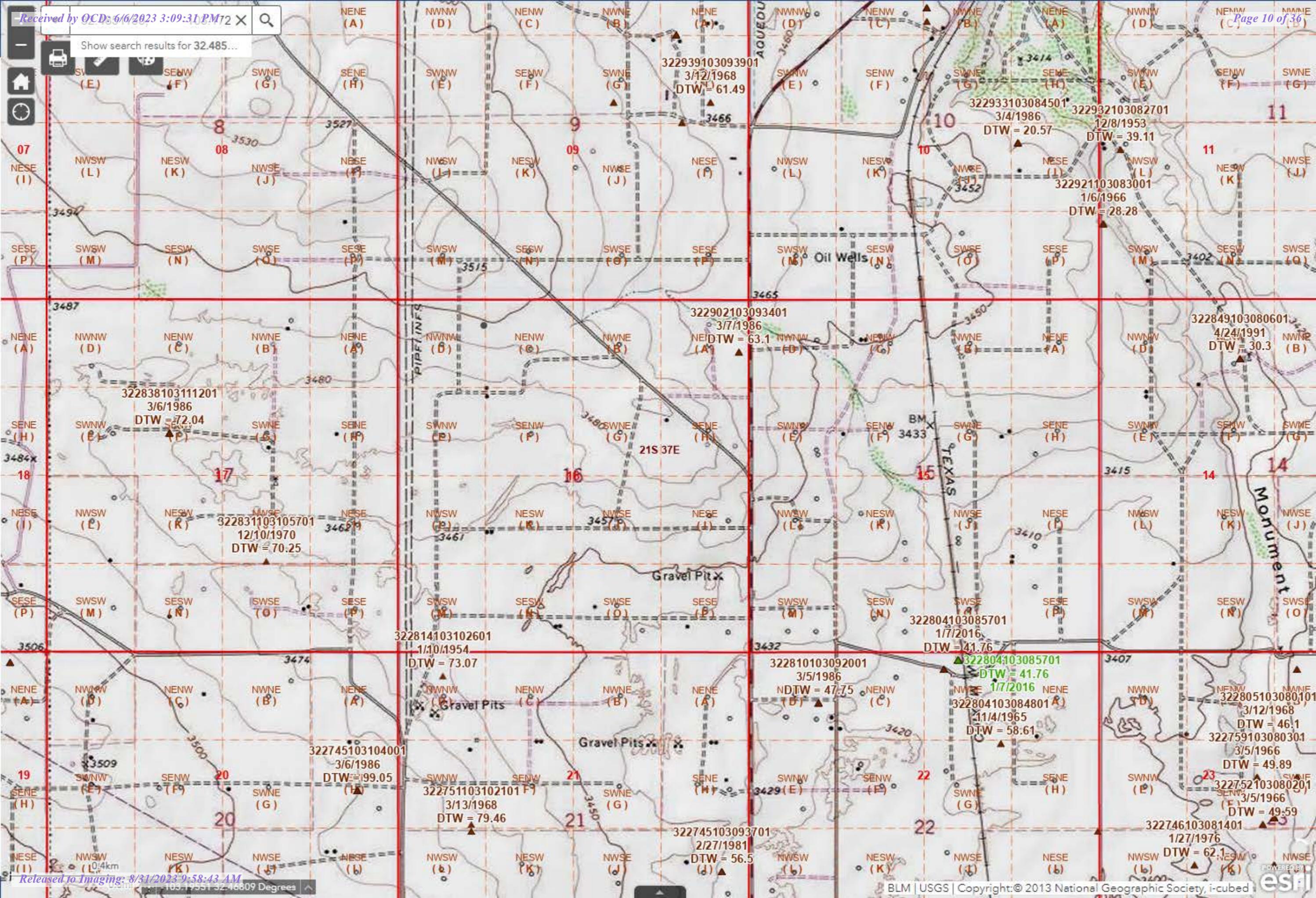
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

3/23/23 7:18 AM

POINT OF DIVERSION SUMMARY



Show search results for 32.485...

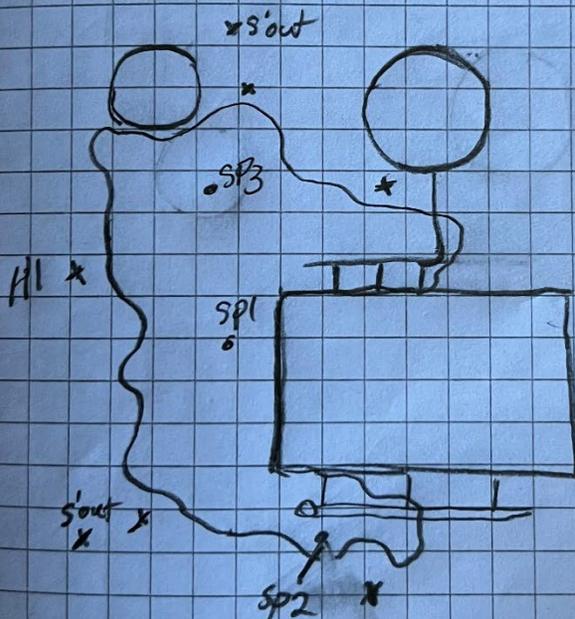
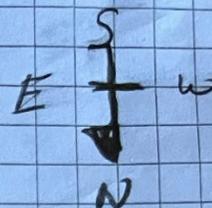




100 ft

Feb 14 2023 WB DU CTB

SP1 32.4851155 - 103.1723962
SP2 32.4852690 - 103.1724586
SP3 32.4850323 - 103.1724164
H1 32.4850764 - 103.1723177



Delineation Samples

Sample Date	Sample ID	Depth	Chloride Lab	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
2/14/2023	SP1	Surface	2,840	14.5	147	112	306	576	9,170	30,300	3,600	32.4851155, -103.1723962
		1'	760	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	20	<10.0	
		2'	96	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
2/14/2023	SP2	Surface	320	3.62	48.8	39.7	119	211	3,450	11,000	1,540	32.4852690, -103.1724586
		1'	240	0.859	13.4	11.5	33.8	59.5	743	1,630	323	
		2'	128	0.052	0.118	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
2/14/2023	SP3	Surface	368	18.8	113	59.7	162	353	5,680	12,600	1,280	32.4850323, -103.1724166
		1'	128	0.67	6.58	5.68	15.7	28.6	243	818	143	
		2'	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	35	<10.0	
		2.5'	240	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
2/14/2023	H1	Surface	320	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.4850764, -103.1723177
5/17/2023	H1	6"	320	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.485295, -103.172457
5/17/2023	H2	6"	160	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.485129, -103.172321
5/17/2023	H3	6"	288	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.484984, -103.172421
5/17/2023	H4	6"	288	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.485058, -103.172474



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

February 21, 2023

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WBDU CTB

Enclosed are the results of analyses for samples received by the laboratory on 02/14/23 15:55.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". 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:	02/14/2023	Sampling Date:	02/14/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	WBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 1 SURFACE (H230697-01)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	14.5	1.00	02/19/2023	ND	2.08	104	2.00	0.0278	
Toluene*	147	1.00	02/19/2023	ND	2.04	102	2.00	0.735	
Ethylbenzene*	112	1.00	02/19/2023	ND	1.97	98.3	2.00	0.992	
Total Xylenes*	306	3.00	02/19/2023	ND	6.01	100	6.00	1.04	
Total BTEX	579	6.00	02/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 156 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2840	16.0	02/16/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	9170	50.0	02/17/2023	ND	209	105	200	0.828	
DRO >C10-C28*	30300	50.0	02/17/2023	ND	199	99.5	200	0.478	
EXT DRO >C28-C36	3600	50.0	02/17/2023	ND					

Surrogate: 1-Chlorooctane 484 % 48.2-134

Surrogate: 1-Chlorooctadecane 614 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/14/2023	Sampling Date:	02/14/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	WBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 1 @ 1' (H230697-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2023	ND	2.08	104	2.00	0.0278	
Toluene*	0.054	0.050	02/19/2023	ND	2.04	102	2.00	0.735	
Ethylbenzene*	<0.050	0.050	02/19/2023	ND	1.97	98.3	2.00	0.992	
Total Xylenes*	<0.150	0.150	02/19/2023	ND	6.01	100	6.00	1.04	
Total BTEX	<0.300	0.300	02/19/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	760	16.0	02/16/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2023	ND	209	105	200	0.828	
DRO >C10-C28*	19.6	10.0	02/17/2023	ND	199	99.5	200	0.478	
EXT DRO >C28-C36	<10.0	10.0	02/17/2023	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.0 % 49.1-148

Cardinal Laboratories

* = Accredited Analyte

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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:	02/14/2023	Sampling Date:	02/14/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	WBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 1 @ 2' (H230697-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2023	ND	2.08	104	2.00	0.0278	
Toluene*	<0.050	0.050	02/19/2023	ND	2.04	102	2.00	0.735	
Ethylbenzene*	<0.050	0.050	02/19/2023	ND	1.97	98.3	2.00	0.992	
Total Xylenes*	<0.150	0.150	02/19/2023	ND	6.01	100	6.00	1.04	
Total BTEX	<0.300	0.300	02/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/16/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2023	ND	209	105	200	0.828	
DRO >C10-C28*	<10.0	10.0	02/17/2023	ND	199	99.5	200	0.478	
EXT DRO >C28-C36	<10.0	10.0	02/17/2023	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 49.1-148

Cardinal Laboratories

* = Accredited Analyte

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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:	02/14/2023	Sampling Date:	02/14/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	WBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 2 SURFACE (H230697-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.62	2.00	02/19/2023	ND	2.08	104	2.00	0.0278	
Toluene*	48.8	2.00	02/19/2023	ND	2.04	102	2.00	0.735	
Ethylbenzene*	39.7	2.00	02/19/2023	ND	1.97	98.3	2.00	0.992	
Total Xylenes*	119	6.00	02/19/2023	ND	6.01	100	6.00	1.04	
Total BTEX	211	12.0	02/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	02/16/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	3450	50.0	02/17/2023	ND	209	105	200	0.828		
DRO >C10-C28*	11000	50.0	02/17/2023	ND	199	99.5	200	0.478		
EXT DRO >C28-C36	1540	50.0	02/17/2023	ND						

Surrogate: 1-Chlorooctane 258 % 48.2-134

Surrogate: 1-Chlorooctadecane 209 % 49.1-148

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/14/2023	Sampling Date:	02/14/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	WBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 2 1' (H230697-05)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.859	0.200	02/20/2023	ND	2.08	104	2.00	0.0278	
Toluene*	13.4	0.200	02/20/2023	ND	2.04	102	2.00	0.735	
Ethylbenzene*	11.5	0.200	02/20/2023	ND	1.97	98.3	2.00	0.992	
Total Xylenes*	33.8	0.600	02/20/2023	ND	6.01	100	6.00	1.04	
Total BTEX	59.5	1.20	02/20/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/16/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	743	50.0	02/17/2023	ND	209	105	200	0.828	
DRO >C10-C28*	1630	50.0	02/17/2023	ND	199	99.5	200	0.478	
EXT DRO >C28-C36	323	50.0	02/17/2023	ND					

Surrogate: 1-Chlorooctane 130 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/14/2023	Sampling Date:	02/14/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	WBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 2 2' (H230697-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.052	0.050	02/19/2023	ND	2.08	104	2.00	0.0278	
Toluene*	0.118	0.050	02/19/2023	ND	2.04	102	2.00	0.735	
Ethylbenzene*	<0.050	0.050	02/19/2023	ND	1.97	98.3	2.00	0.992	
Total Xylenes*	<0.150	0.150	02/19/2023	ND	6.01	100	6.00	1.04	
Total BTEX	<0.300	0.300	02/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/16/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/17/2023	ND	209	105	200	0.828	
DRO >C10-C28*	<10.0	10.0	02/17/2023	ND	199	99.5	200	0.478	
EXT DRO >C28-C36	<10.0	10.0	02/17/2023	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/14/2023	Sampling Date:	02/14/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	WBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 3 SURFACE (H230697-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	18.8	2.00	02/19/2023	ND	2.08	104	2.00	0.0278	
Toluene*	113	2.00	02/19/2023	ND	2.04	102	2.00	0.735	
Ethylbenzene*	59.7	2.00	02/19/2023	ND	1.97	98.3	2.00	0.992	
Total Xylenes*	162	6.00	02/19/2023	ND	6.01	100	6.00	1.04	
Total BTEX	353	12.0	02/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	02/16/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	5680	50.0	02/17/2023	ND	209	105	200	0.828		
DRO >C10-C28*	12600	50.0	02/17/2023	ND	199	99.5	200	0.478		
EXT DRO >C28-C36	1280	50.0	02/17/2023	ND						

Surrogate: 1-Chlorooctane 286 % 48.2-134

Surrogate: 1-Chlorooctadecane 240 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/14/2023	Sampling Date:	02/14/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	WBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 3 @ 1' (H230697-08)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.670	0.050	02/19/2023	ND	2.08	104	2.00	0.0278	
Toluene*	6.56	0.050	02/19/2023	ND	2.04	102	2.00	0.735	
Ethylbenzene*	5.68	0.050	02/19/2023	ND	1.97	98.3	2.00	0.992	
Total Xylenes*	15.7	0.150	02/19/2023	ND	6.01	100	6.00	1.04	
Total BTEX	28.6	0.300	02/19/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 188 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/16/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	243	10.0	02/16/2023	ND	204	102	200	0.299	
DRO >C10-C28*	818	10.0	02/16/2023	ND	186	93.0	200	1.26	QM-07
EXT DRO >C28-C36	143	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 155 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/14/2023	Sampling Date:	02/14/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	WBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 3 @ 2' (H230697-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2023	ND	2.08	104	2.00	0.0278	
Toluene*	<0.050	0.050	02/19/2023	ND	2.04	102	2.00	0.735	
Ethylbenzene*	<0.050	0.050	02/19/2023	ND	1.97	98.3	2.00	0.992	
Total Xylenes*	<0.150	0.150	02/19/2023	ND	6.01	100	6.00	1.04	
Total BTEX	<0.300	0.300	02/19/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/16/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	204	102	200	0.299	
DRO >C10-C28*	35.0	10.0	02/16/2023	ND	186	93.0	200	1.26	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/14/2023	Sampling Date:	02/14/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	WBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 3 @ 2' 5" (H230697-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2023	ND	2.08	104	2.00	0.0278	
Toluene*	<0.050	0.050	02/19/2023	ND	2.04	102	2.00	0.735	
Ethylbenzene*	<0.050	0.050	02/19/2023	ND	1.97	98.3	2.00	0.992	
Total Xylenes*	<0.150	0.150	02/19/2023	ND	6.01	100	6.00	1.04	
Total BTEX	<0.300	0.300	02/19/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/16/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	204	102	200	0.299	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	186	93.0	200	1.26	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/14/2023	Sampling Date:	02/14/2023
Reported:	02/21/2023	Sampling Type:	Soil
Project Name:	WBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: H 1 (H230697-11)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2023	ND	2.08	104	2.00	0.0278	
Toluene*	<0.050	0.050	02/19/2023	ND	2.04	102	2.00	0.735	
Ethylbenzene*	<0.050	0.050	02/19/2023	ND	1.97	98.3	2.00	0.992	
Total Xylenes*	<0.150	0.150	02/19/2023	ND	6.01	100	6.00	1.04	
Total BTEX	<0.300	0.300	02/19/2023	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	02/16/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/16/2023	ND	204	102	200	0.299	
DRO >C10-C28*	<10.0	10.0	02/16/2023	ND	186	93.0	200	1.26	
EXT DRO >C28-C36	<10.0	10.0	02/16/2023	ND					

Surrogate: 1-Chlorooctane 81.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Apache
Project Manager: B. Baker
Address:
City: Hobbs State: NM Zip: 88240
Phone #: Fax #:
Project #: Project Owner:
Project Name:
Project Location: WBDU CTB
Sampler Name: Jose Queral

Table with columns: Lab I.D., Sample I.D., MATRIX (GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER), PRESERV. (ACID/BASE, ICE/COOL, OTHER), SAMPLING (DATE, TIME). Includes handwritten entries for samples 1-10 and a 'BTEX EXTRA' label.

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Relinquished By: Jose Queral Date: 2/14/23
Received By: [Signature] Date: 3:55pm
Verbal Result: [] Yes [] No Add'l Phone #:
REMARKS: E. Mail Results
Delivered By: (Circle One) Sampler - UPS - Bus - Other:
Observed Temp. °C 4.4 Corrected Temp. °C 3.8
Sample Condition Cool Intact [] Yes [] No
CHECKED BY: (Initials) JEQ
Turnaround Time: Standard [] Rush [X]
Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Corrected Temp. °C

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <i>Apache</i>		BILL TO		ANALYSIS REQUEST									
Project Manager: <i>B. Baker</i>		P.O. #:											
Address:		Company:											
City: <i>Hobbs</i> State: <i>NM</i> Zip: <i>88240</i>		Attn:											
Phone #: Fax #:		Address:											
Project #: Project Owner:		City:											
Project Name:		State: Zip:											
Project Location: <i>WBDU CTB</i>		Phone #:											
Sampler Name: <i>Jose Queral</i>		Fax #:											

FOR LAB USE ONLY		(G)RAB OR (C)OMP. # CONTAINERS	MATRIX						PRESERV		SAMPLING		DATE	TIME	C1	BTEX	SKTTPH
Lab I.D.	Sample I.D.		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :						
<i>H2301097</i>	<i>11 41</i>	<i>1</i>							<input checked="" type="checkbox"/>			<i>2/14</i>	<i>2:04pm</i>	<i>1</i>	<i>1</i>	<i>1</i>	

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Relinquished By: <i>Jose Queral</i>	Date: <i>2/14/23</i>	Received By: <i>Amara Delatorre</i>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Time: <i>3:55pm</i>	Received By:	All Results are emailed. Please provide Email address:
Delivered By: (Circle One)	Observed Temp. °C <i>4.4</i>	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	REMARKS: <i>E-Mail Results</i>
Sampler - UPS - Bus - Other:	Corrected Temp. °C <i>3.8</i>	CHECKED BY: (Initials) <i>JO</i>	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
			Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No
			Thermometer ID #113 Correction Factor -0.6°C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No

FORM-006 R 3.3 07/18/22

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

May 23, 2023

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WBDU CTB

Enclosed are the results of analyses for samples received by the laboratory on 05/17/23 15:52.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/17/2023	Sampling Date:	05/17/2023
Reported:	05/23/2023	Sampling Type:	Soil
Project Name:	WBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: H1 6" (H232502-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2023	ND	2.36	118	2.00	4.23	
Toluene*	<0.050	0.050	05/23/2023	ND	2.32	116	2.00	4.90	
Ethylbenzene*	<0.050	0.050	05/23/2023	ND	2.25	113	2.00	4.65	
Total Xylenes*	<0.150	0.150	05/23/2023	ND	6.87	114	6.00	3.07	
Total BTEX	<0.300	0.300	05/23/2023	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	05/18/2023	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/19/2023	ND	191	95.4	200	2.92	
DRO >C10-C28*	<10.0	10.0	05/19/2023	ND	186	92.8	200	7.40	
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND					

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/17/2023	Sampling Date:	05/17/2023
Reported:	05/23/2023	Sampling Type:	Soil
Project Name:	WBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: H2 6" (H232502-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2023	ND	2.36	118	2.00	4.23		
Toluene*	<0.050	0.050	05/20/2023	ND	2.32	116	2.00	4.90		
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.25	113	2.00	4.65		
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.87	114	6.00	3.07		
Total BTEX	<0.300	0.300	05/20/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	05/18/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/19/2023	ND	191	95.4	200	2.92		
DRO >C10-C28*	<10.0	10.0	05/19/2023	ND	186	92.8	200	7.40		
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND						

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/17/2023	Sampling Date:	05/17/2023
Reported:	05/23/2023	Sampling Type:	Soil
Project Name:	WBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: H3 6" (H232502-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2023	ND	2.36	118	2.00	4.23		
Toluene*	<0.050	0.050	05/20/2023	ND	2.32	116	2.00	4.90		
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.25	113	2.00	4.65		
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.87	114	6.00	3.07		
Total BTEX	<0.300	0.300	05/20/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	05/18/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/19/2023	ND	164	81.9	200	1.15		
DRO >C10-C28*	<10.0	10.0	05/19/2023	ND	173	86.4	200	2.97		
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND						

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/17/2023	Sampling Date:	05/17/2023
Reported:	05/23/2023	Sampling Type:	Soil
Project Name:	WBDU CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: H4 6" (H232502-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/20/2023	ND	2.36	118	2.00	4.23		
Toluene*	<0.050	0.050	05/20/2023	ND	2.32	116	2.00	4.90		
Ethylbenzene*	<0.050	0.050	05/20/2023	ND	2.25	113	2.00	4.65		
Total Xylenes*	<0.150	0.150	05/20/2023	ND	6.87	114	6.00	3.07		
Total BTEX	<0.300	0.300	05/20/2023	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	05/18/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/19/2023	ND	164	81.9	200	1.15		
DRO >C10-C28*	<10.0	10.0	05/19/2023	ND	173	86.4	200	2.97		
EXT DRO >C28-C36	<10.0	10.0	05/19/2023	ND						

Surrogate: 1-Chlorooctane 70.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- 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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <i>Apache</i>		BILL TO				ANALYSIS REQUEST																						
Project Manager: <i>B. Baker</i>		P.O. #:																										
Address:		Company:																										
City: <i>Hobbs</i> State: <i>NM</i> Zip: <i>88240</i>		Attn:																										
Phone #: Fax #:		Address:																										
Project #: Project Owner:		City:																										
Project Name:		State: Zip:																										
Project Location: <i>WBDU CTB</i>		Phone #:																										
Sampler Name: <i>José Quispe</i>		Fax #:																										
FOR LAB USE ONLY																												
Lab I.D.		Sample I.D.		# CONTAINERS	MATRIX				PRESERV.		SAMPLING																	
				(GRAB OR (C)OMP.	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME													
<i>H232502</i>																												
<i>1 H1 6"</i>				<i>9</i>			<i>1</i>							<i>5/17</i>	<i>7:39</i>	<i>1</i>	<i>BTEx</i>	<i>EXT 133</i>										
<i>2 H2 6"</i>				<i>9</i>			<i>1</i>							<i>7:36</i>	<i>1</i>	<i>1</i>	<i>1</i>											
<i>3 H3 6"</i>				<i>9</i>			<i>1</i>							<i>7:38</i>	<i>1</i>	<i>1</i>	<i>1</i>											
<i>4 H4 6"</i>				<i>9</i>			<i>1</i>							<i>7:40</i>	<i>1</i>	<i>1</i>	<i>1</i>											

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Relinquished By: <i>José Quispe</i>		Date: <i>9/17/23</i>		Received By: <i>Tamara [Signature]</i>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Time: <i>3:52pm</i>						All Results are emailed. Please provide Email address:	
Relinquished By:		Date:		Received By:		REMARKS: <i>2-Mail Results</i>	
Time:							
Delivered By: (Circle One)		Observed Temp. °C <i>4.9</i>		Sample Condition		CHECKED BY: (Initials) <i>TS</i>	
Sampler - UPS - Bus - Other:		Corrected Temp. °C <i>4.3</i>		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush	
FORM-006 R 3.3 07/16/22				<input type="checkbox"/> Yes <input type="checkbox"/> No		Bacteria (only) Sample Condition	
				<input type="checkbox"/> No <input type="checkbox"/> No		Cool Intact Observed Temp. °C	
						<input type="checkbox"/> Yes <input type="checkbox"/> Yes	
						<input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C	

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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 224655

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 224655
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation plan approved as written. Apache has 60-days (October 30, 2023) to complete and submit the appropriate or final closure report.	8/31/2023