303 Veterans Airpark Lane Midland, TX 79705

Remediation Plan

March 15, 2023

Re: WBDU 68
Case nAPP2235436061

Background:

On 12/19/2022 a release occurred due to a stuffing box failure. The release (GPS: 32.4789391, -103.1807785) is located north of Eunice, New Mexico in unit letter H section 17 township 21S range 37E. A groundwater survey was conducted utilizing NMOSE and NMOCD GIS maps. All data suggest that groundwater beneath the release to be 70 feet.

On 1/13/2023 vertical delineation was conducted utilizing a backhoe to a depth of 2 feet at SP 1. 5-point horizontal surface composite samples were collected not to exceed 200 square feet. All samples collected were submitted to commercial laboratory for the analysis of chloride, TPH, and BTEX.

Remediation Plan:

Apache corporation proposes that the release area be excavated to a depth of 6 inches to 1 foot. All excavated soil (220 yards) will be hauled to an OCD approved disposal facility. 5-point bottom composite samples will be collected not to exceed 400 square feet. 5-point wall composite 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 analysis is below table one standards for releases 51-100 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, and Laboratory Results.

Submitted by.

Larry Baker

Environmental Technician Sr. Staff
larry.baker@apachecorp.com
Office # 432-818-1654

Incident ID	NAPP2235436061
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?	70 (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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2235436061
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: 3/15/2023

email: larry.baker@apachecorp.com Telephone: 432-818-1654

OCD Only

Received by: Jocelyn Harimon Date: 03/16/2023

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2235436061
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: 3/15/2023

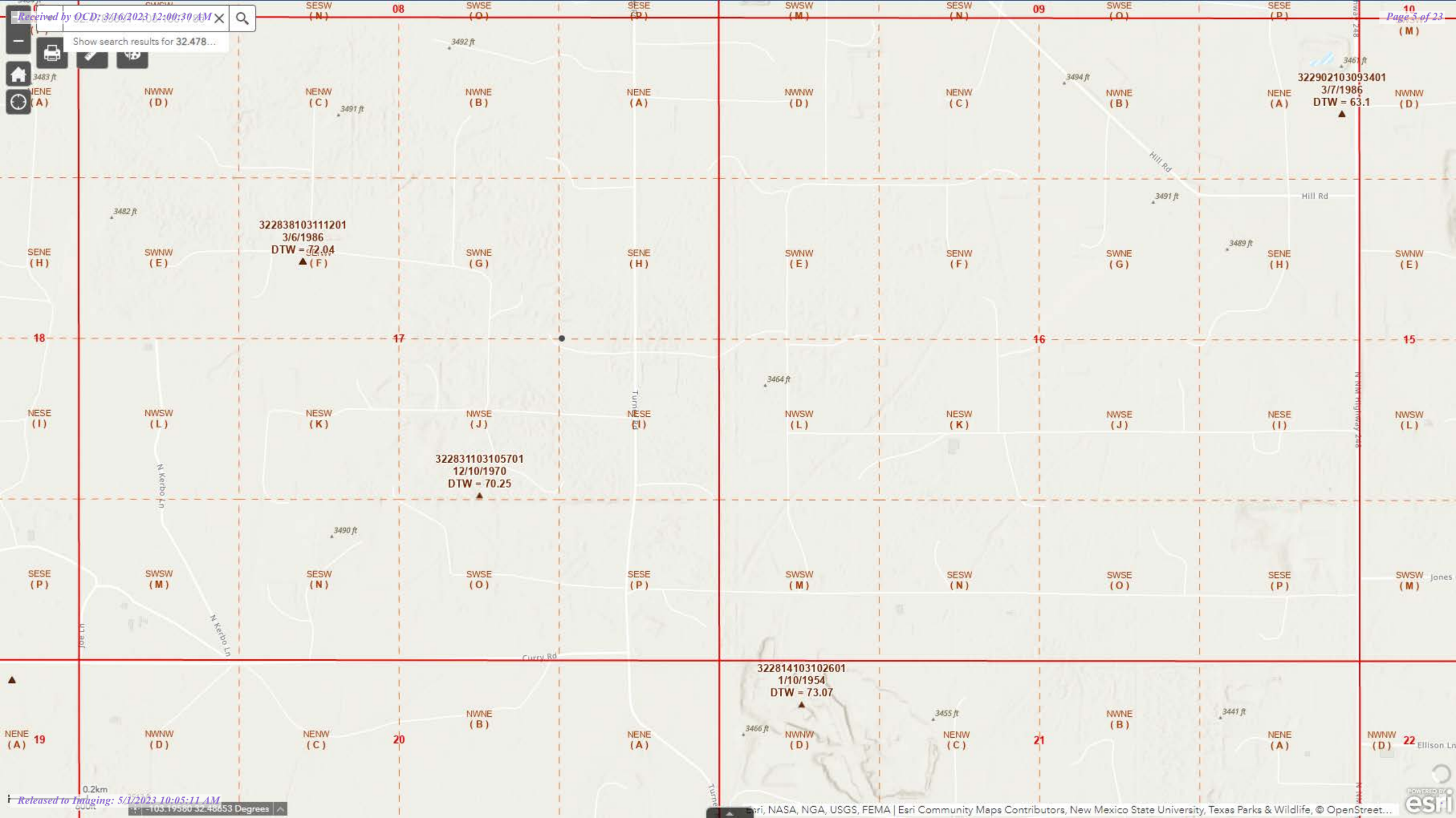
email: larry.baker@apachecorp.com Telephone: 432-818-1654

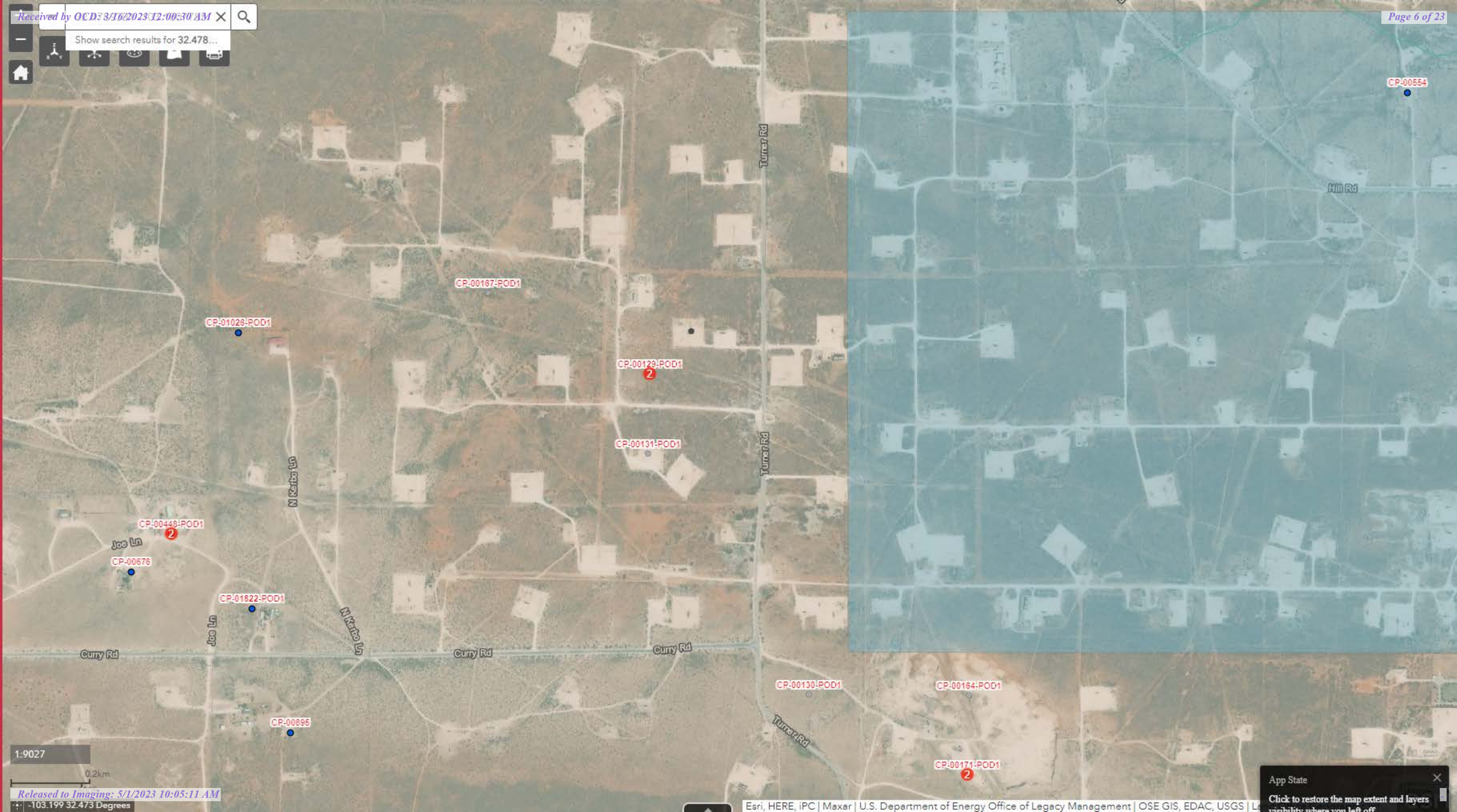
OCD Only

Received by: Jocelyn Harimon Date: 03/16/2023

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Jennifer Nobui Date: 05/01/2023

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Hill Rd
Turner Rd
CP-00167-POD1
CP-01026-POD1
CP-00129-POD1
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CP-00131-POD1
Turner Rd
N Kerby Ln
CP-00448-POD1
2
Joe Ln
CP-00676
CP-01822-POD1
Joe Ln
N Kerby Ln
Curry Rd
Curry Rd
Curry Rd
CP-00130-POD1
CP-00164-POD1
Turner Rd
CP-00895
CP-00171-POD1
2
1:9027
0.2km
-103.199 32.473 Degrees
Esri, HERE, iPC | Maxar | U.S. Department of Energy Office of Legacy Management | OSE GIS, EDAC, USGS |
App State
Click to restore the map extent and layers

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

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 Rcv 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

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
223C6	CP 01822 POD1	3	3	3	17	21S	37E	669855	3594265

Driller License: 1044 **Driller Company:** EADES WELL DRILLING & PUMP SERVICE

Driller Name: EADES, ALANESL.G. HAYDENAS

Drill Start Date: 01/02/2020 **Drill Finish Date:** 01/02/2020 **Plug Date:**

Log File Date: 01/27/2020 **PCW Rcv Date:** **Source:** Artesian

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: 5.00 **Depth Well:** 162 feet **Depth Water:** 110 feet

Water Bearing Stratifications:	Top	Bottom	Description
	110	150	Sandstone/Gravel/Conglomerate
	150	162	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	122	162

New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	CP 00554	2	2		16	21S	37E	672744	3595610*

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 Rcv 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**

New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	CP 00554	2	2		16	21S	37E	672744	3595610*

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 Rcv 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**

Show search results for 32.478...

CP-01868-POD1
CP-01868-POD2
Oil Wells
CP-00554
CP-00728-POD1
CP-01791-POD3
CP-01794-POD6
CP-01794-POD4
CP-00167-POD1
CP-01026-POD1
CP-00129-POD1
CP-00131-POD1
CP-00729-POD1
CP-01185-POD2
CP-01185-POD3
CP-00448-POD1
CP-00676
CP-01822-POD1
CP-01141-POD5
CP-01575-POD2
CP-00130-POD1
CP-00164-POD1
CP-00235-POD6
CP-00895
CP-00171-POD1
CP-00730-POD1
CP-00731-POD1
CP-00235-POD7
Gravel Pits
CP-00235-POD4
CP-00732-POD1
CP-00985-POD1
CP-00173-POD1
CP-00252-POD1
CP-00016-POD1
CP-00169-POD1
CP-00166-POD1
CP-01511-POD2
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CP-00733-POD1
CP-00881
CP-01751-POD3
CP-00168-POD1
CP-00224-POD1
CP-01636-POD3
CP-00017-POD1
Hardy Flats
Gravel Pit
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TEXAS
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U.S. Department of Energy Office of Legacy Management | OSE GIS, EDAC, USGS | Land Office Geographic Inf...
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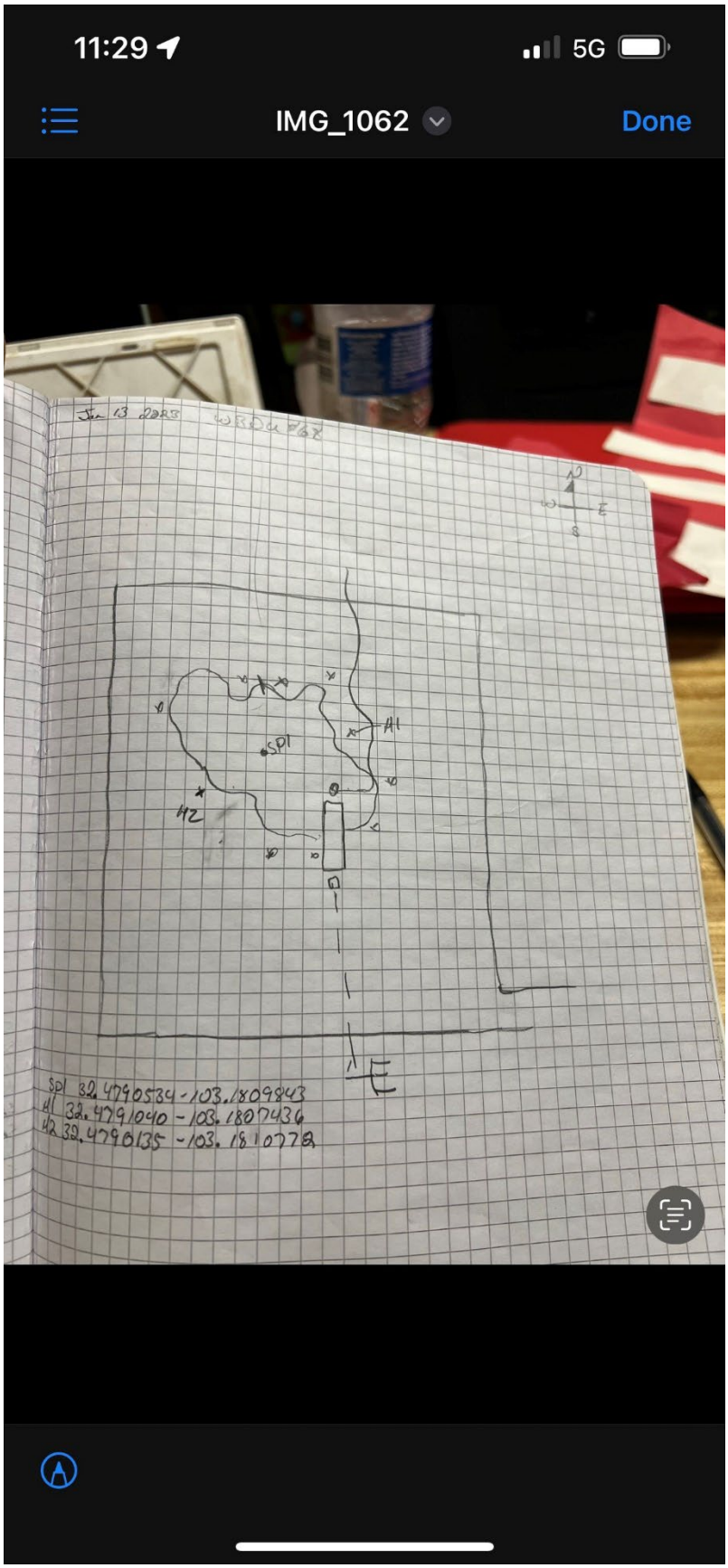
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A1
A2
SP1 32.4790534 -103.1809843
A1 32.4791040 -103.1807436
A2 32.4790135 -103.1810778

Delination Samples

Sample Date	Sample ID	Depth	Chloride Lab	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
1/13/2023	SP1	Surface	3,840	1.86	30.1	26.1	86.9	145	2730	14000	2310	32.4790534, -103.1809843
		1'	1,140	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	
		2'	80	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	
1/13/2023	H1	Surface	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	32.4791040, -103.1807436
1/13/2023	H2	Surface	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	32.4790135, -103.1810772

CARDINAL Laboratories

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

January 18, 2023

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WBDU #68

Enclosed are the results of analyses for samples received by the laboratory on 01/13/23 13:17.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	01/13/2023	Sampling Date:	01/13/2023
Reported:	01/18/2023	Sampling Type:	Soil
Project Name:	WBDU #68	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 SURFACE (H230200-01)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**1.86**	1.00	01/16/2023	ND	2.30	115	2.00	2.33	
Toluene*	**30.1**	2.00	01/16/2023	ND	2.34	117	2.00	3.99	
Ethylbenzene*	**26.1**	2.00	01/16/2023	ND	2.31	116	2.00	2.74	
Total Xylenes*	**86.9**	6.00	01/16/2023	ND	7.14	119	6.00	3.06	
Total BTEX	**145**	11.0	01/16/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *133 %* *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	**3840**	16.0	01/16/2023	ND	400	100	400	7.69	

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*	**2730**	100	01/16/2023	ND	206	103	200	3.27	
DRO >C10-C28*	**14000**	100	01/16/2023	ND	227	114	200	0.813	
EXT DRO >C28-C36	**2310**	100	01/16/2023	ND					

Surrogate: 1-Chlorooctane *251 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *265 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	01/13/2023	Sampling Date:	01/13/2023
Reported:	01/18/2023	Sampling Type:	Soil
Project Name:	WBDU #68	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 1' (H230200-02)

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	01/17/2023	ND	2.07	104	2.00	6.07	
Toluene*	<0.050	0.050	01/17/2023	ND	2.06	103	2.00	4.22	
Ethylbenzene*	<0.050	0.050	01/17/2023	ND	2.04	102	2.00	3.65	
Total Xylenes*	<0.150	0.150	01/17/2023	ND	6.13	102	6.00	3.87	
Total BTEX	<0.300	0.300	01/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *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	**1140**	16.0	01/16/2023	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/16/2023	ND	206	103	200	3.27	
DRO >C10-C28*	<10.0	10.0	01/16/2023	ND	227	114	200	0.813	
EXT DRO >C28-C36	<10.0	10.0	01/16/2023	ND					

Surrogate: 1-Chlorooctane *94.0 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *99.0 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	01/13/2023	Sampling Date:	01/13/2023
Reported:	01/18/2023	Sampling Type:	Soil
Project Name:	WBDU #68	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 2' (H230200-03)

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	01/17/2023	ND	2.07	104	2.00	6.07	
Toluene*	<0.050	0.050	01/17/2023	ND	2.06	103	2.00	4.22	
Ethylbenzene*	<0.050	0.050	01/17/2023	ND	2.04	102	2.00	3.65	
Total Xylenes*	<0.150	0.150	01/17/2023	ND	6.13	102	6.00	3.87	
Total BTEX	<0.300	0.300	01/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *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	**80.0**	16.0	01/16/2023	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/16/2023	ND	206	103	200	3.27	
DRO >C10-C28*	<10.0	10.0	01/16/2023	ND	227	114	200	0.813	
EXT DRO >C28-C36	<10.0	10.0	01/16/2023	ND					

Surrogate: 1-Chlorooctane *98.3 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *104 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	01/13/2023	Sampling Date:	01/13/2023
Reported:	01/18/2023	Sampling Type:	Soil
Project Name:	WBDU #68	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: H 1 (H230200-04)

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	01/17/2023	ND	2.07	104	2.00	6.07	
Toluene*	<0.050	0.050	01/17/2023	ND	2.06	103	2.00	4.22	
Ethylbenzene*	<0.050	0.050	01/17/2023	ND	2.04	102	2.00	3.65	
Total Xylenes*	<0.150	0.150	01/17/2023	ND	6.13	102	6.00	3.87	
Total BTEX	<0.300	0.300	01/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *109 %* *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	**16.0**	16.0	01/16/2023	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/16/2023	ND	206	103	200	3.27	
DRO >C10-C28*	<10.0	10.0	01/16/2023	ND	227	114	200	0.813	
EXT DRO >C28-C36	<10.0	10.0	01/16/2023	ND					

Surrogate: 1-Chlorooctane *97.6 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *105 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

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

Received:	01/13/2023	Sampling Date:	01/13/2023
Reported:	01/18/2023	Sampling Type:	Soil
Project Name:	WBDU #68	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: H 2 (H230200-05)

BTEX 8021B mg/kg Analyzed By: JH/

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/17/2023	ND	2.07	104	2.00	6.07	
Toluene*	<0.050	0.050	01/17/2023	ND	2.06	103	2.00	4.22	
Ethylbenzene*	<0.050	0.050	01/17/2023	ND	2.04	102	2.00	3.65	
Total Xylenes*	<0.150	0.150	01/17/2023	ND	6.13	102	6.00	3.87	
Total BTEX	<0.300	0.300	01/17/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID *108 %* *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	**16.0**	16.0	01/16/2023	ND	400	100	400	7.69	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/16/2023	ND	206	103	200	3.27	
DRO >C10-C28*	<10.0	10.0	01/16/2023	ND	227	114	200	0.813	
EXT DRO >C28-C36	<10.0	10.0	01/16/2023	ND					

Surrogate: 1-Chlorooctane *96.9 %* *48.2-134*

Surrogate: 1-Chlorooctadecane *105 %* *49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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.
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

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	Apache
Project Manager:	Bruce Baker
Address:	
City:	Hobbs
State:	NM
Zip:	88240
Phone #:	
Fax #:	
Project #:	
Project Owner:	
Project Name:	
Project Location:	WBDU #68
Sampler Name:	Jose Quesada

BILL TO

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

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	Cl	BTEX	TPH TX1005
H230200																	
1	Sp1 surface	G	1			1					1		1/13	11:08AM	1	1	1
2	Sp1 @ 1'	G	1			1					1			11:10AM	1	1	
3	Sp1 @ 2'	G	1			1					1			11:12AM	1	1	1
4	H1	C	1			1					1			11:44AM	1	1	1
5	H2	C	1			1					1			11:46AM	1	1	1

Relinquished By:	Date: 1/13/23	Received By:	
Jose Quesada	Time: 1:17pm	Tamara Oldaker	
Relinquished By:	Date:	Received By:	
	Time:		

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

REMARKS: E-Mail Results

Delivered By: (Circle One)	Observed Temp. °C 4.6	Sample Condition Cool: ☑ Yes ☐ No	Intact: ☑ Yes ☐ No	CHECKED BY: (Initials)	Turnaround Time: Standard ☑ Rush ☐
Sampler - UPS - Bus - Other:	Corrected Temp. °C 4.0				Thermometer ID #113 Correction Factor None

Bacteria (only) Sample Condition: Cool ☐ Yes ☐ No; Intact ☐ Yes ☐ No; Observed Temp. °C; Corrected Temp. °C

FORM-006 R 3.1 08/04/20

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

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 197469

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 197469
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved with Conditions. Composite confirmation samples will be collected from the bottom and sidewalls of the excavation from areas representing no more than hundred (200) square feet. Going forward, lateral delineation samples will be collected as depth discrete samples and not 5-point composite samples.	5/1/2023