



July 12, 2022

New Mexico Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

Re: Deferral Request
Apache Corporation
WP Byrd Battery, Incident ID: nrm2010837524

To Whom It May Concern

RXSoil, Inc. is submitting the deferral request for the on-site remediation of impacted soil for the above release in Lea County, New Mexico.

Sincerely,

Zach Robbins
Technical and Engineering Analyst
RXSoil, Inc.
(210) 400-7645

Cassie Labay
Technical and Engineering Analyst
RXSoil, Inc.
(817) 320-2658

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I. Introduction

On behalf of Apache Corporation (“Apache”), RXSoil, Inc. (“RXSoil”) has prepared this deferral request that describes remediation of the release of crude oil at the WP Byrd battery with coordinates (32.59134, -103.30740) and incident ID number: nrm2010837524.

The C-141 is given in *Appendix A*.

II. Site Assessment/Characterization

1. **Spill Map** – See *Figure 2*
2. **Depth to ground water** – The nearest well according to the OSE POD system is L 13524 POD 1 (https://gis.ose.state.nm.us/gisapps/ose_pod_locations/). The depth to ground water at this well was 33 ft shown in *Appendix B*.
3. **Wellhead protection area** – There are no known water sources within a half mile of the release.
4. **Distance to nearest significant watercourse** – There are no significant watercourses within a half mile of the release.
5. **Soil/waste characteristics** –An initial delineation was performed and reported previously. That delineation is included as *Appendix D*. Excavation samples are shown in *Figure 2*. Soil samples were submitted to Cardinal Laboratories and tested for chlorides, TPH and BTEX. Results from these tests are summarized in *Appendix C* with the laboratory report shown in *Appendix E*.

III. Remediation Reporting

1. **Scaled site and sampling diagram** – See *Figure 2* for excavation samples.
2. **Photographs of remediated site prior to backfill** – See *Appendix D* for photographs of the site prior to backfill.
3. **Laboratory analyses of final sampling** - See *Appendix E* for laboratory reports summarized in *Appendix C*.
4. **Description of all remedial activities** – RXSoil applied RXBiotics, RXSoil’s naturally occurring bioremediation solution, to the impacted area with intention to meet thresholds without removing soil and mitigating safety risk of removing soil from a tank battery with installed infrastructure. Following multiple treatments, those thresholds were not met. Excavation of contaminated material began and due to above-mentioned infrastructure, crews with shovels were used to safely remove as much soil as possible. Further excavation was not possible due to tanks and pipelines that would require a major facility deconstruction. Bottom samples were collected representing 200 square feet and sent to the lab for TPH and BTEX sampling (previous sampling showed no chloride contamination). Sample locations are shown in *Figure 2* while results are summarized in a table in *Appendix C*. Contaminated soil was hauled offsite to a NMOCD approved landfill for disposal. RXSoil is requesting a deferral for this incident, as no more soil can safely and practically be removed from this padsite. The treatment that was performed will continue to degrade any existing hydrocarbons.

RXSoil, Inc.

201 Main St. Ste. 1360, Fort Worth, TX 76102

Samples were taken using a stainless-steel hand shovel. All tools were decontaminated before each sample, as specified in *Field Equipment Cleaning and Decontamination* (EPA, 2015). This includes wiping the equipment clean, water-rinsing the equipment, washing the equipment in detergent and water, and rinsing the equipment in water.

Samples were temporarily transferred to a new plastic bag in the field. Once in a location safer for handling glass, the samples were transferred to glass jars, supplied by an approved laboratory. The threads on all jars were wiped clean to allow an air-tight seal. Samples were transferred on ice to a third-party laboratory to ensure tests were completed within 14 days (as recommended in the EPA handbook).

All lab reports of sampling can be found in *Appendix E*.

IV. Restoration, Reclamation and Re-Vegetation

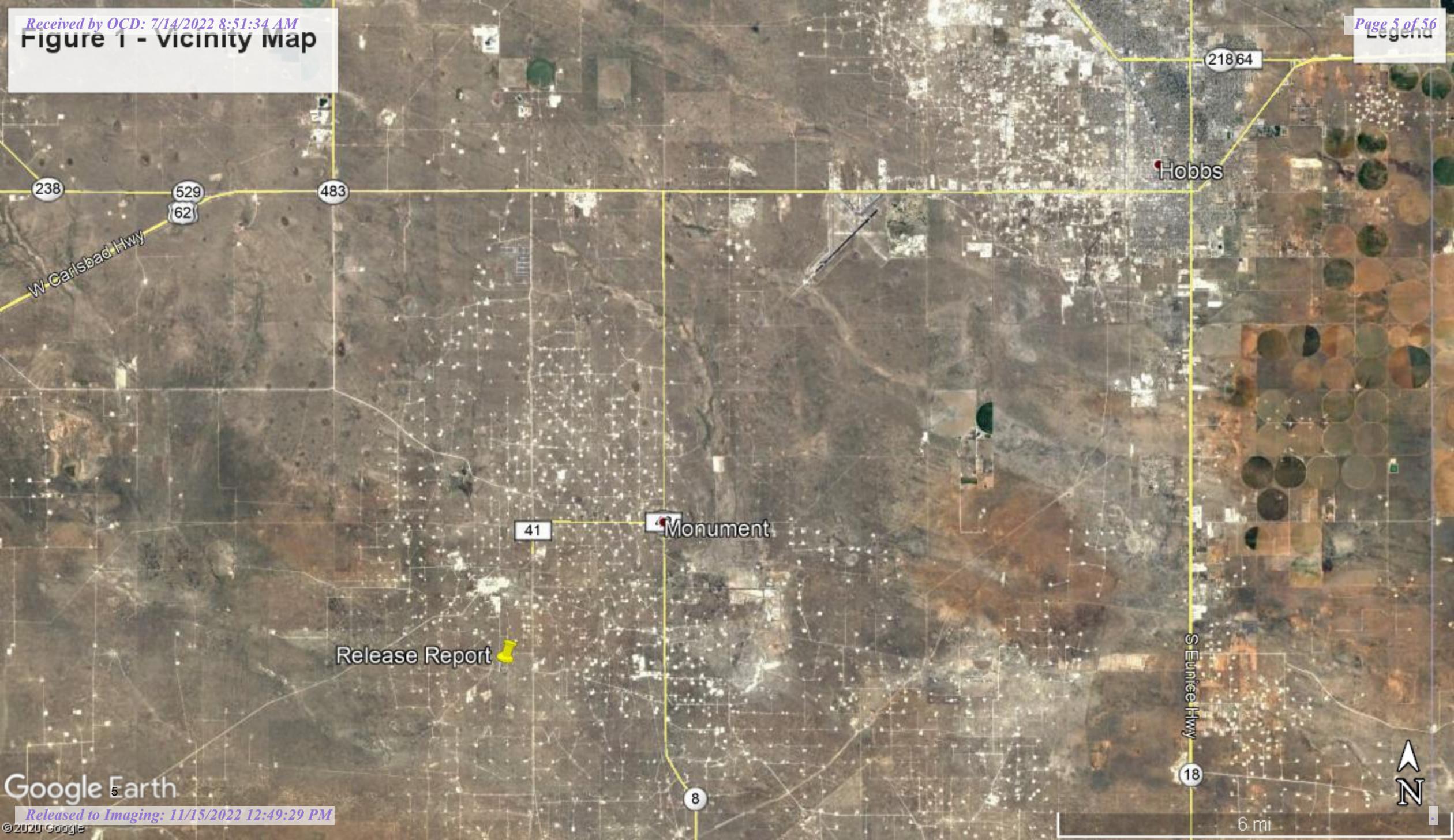
Following removal of contaminated soil, clean material was backfilled.

Due to further action requiring a major facility deconstruction, RXSoil, on behalf of all parties, is requesting deferral on this project until this padsite is no longer being used for oil and gas operations.

RXSoil, Inc.

201 Main St. Ste. 1360, Fort Worth, TX 76102

Figure 1 - vicinity map



Legend

W Carlsbad Hwy

Hobbs

Monument

Release Report

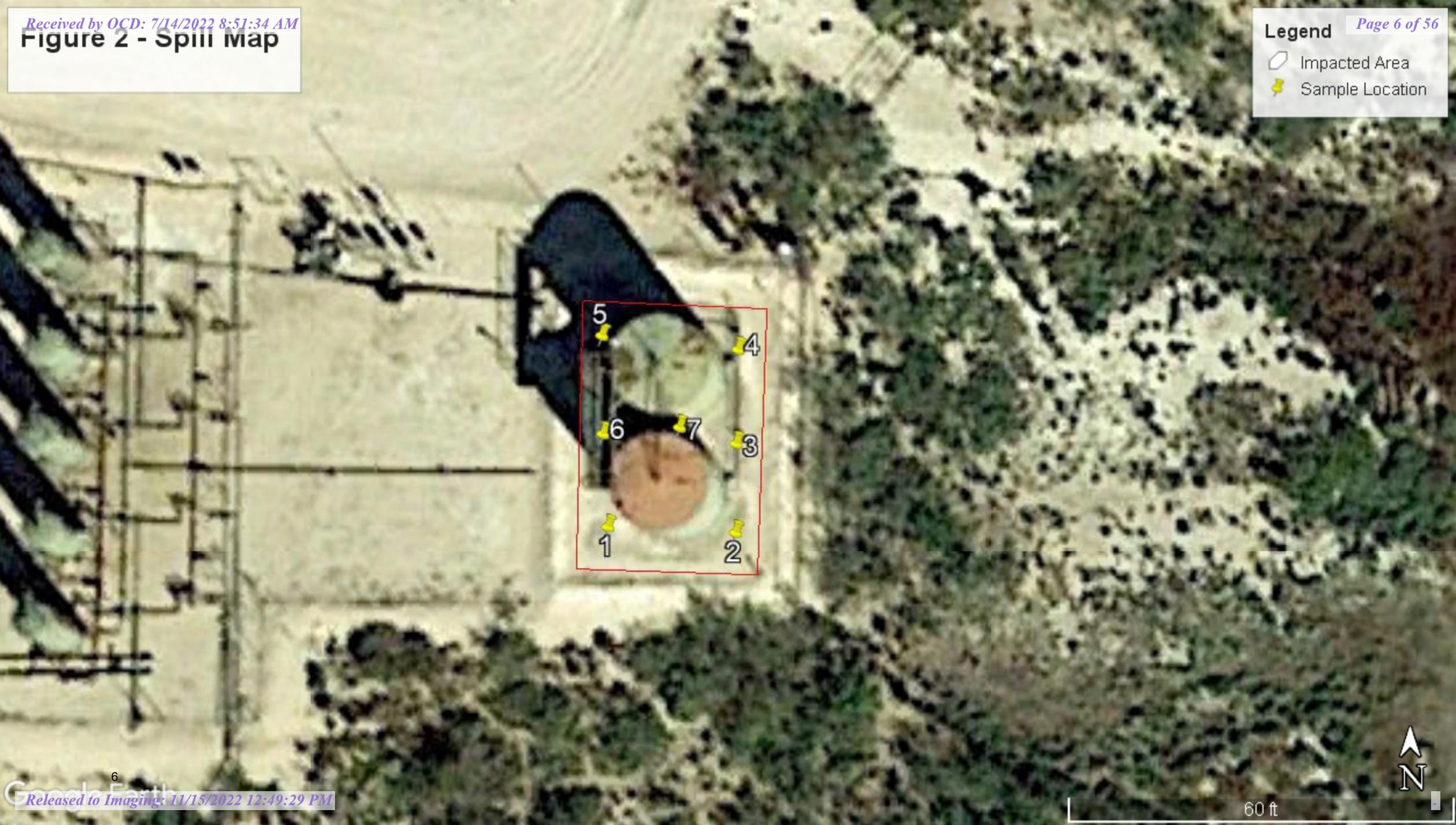
S Eunice Hwy



Figure 2 - Spill map

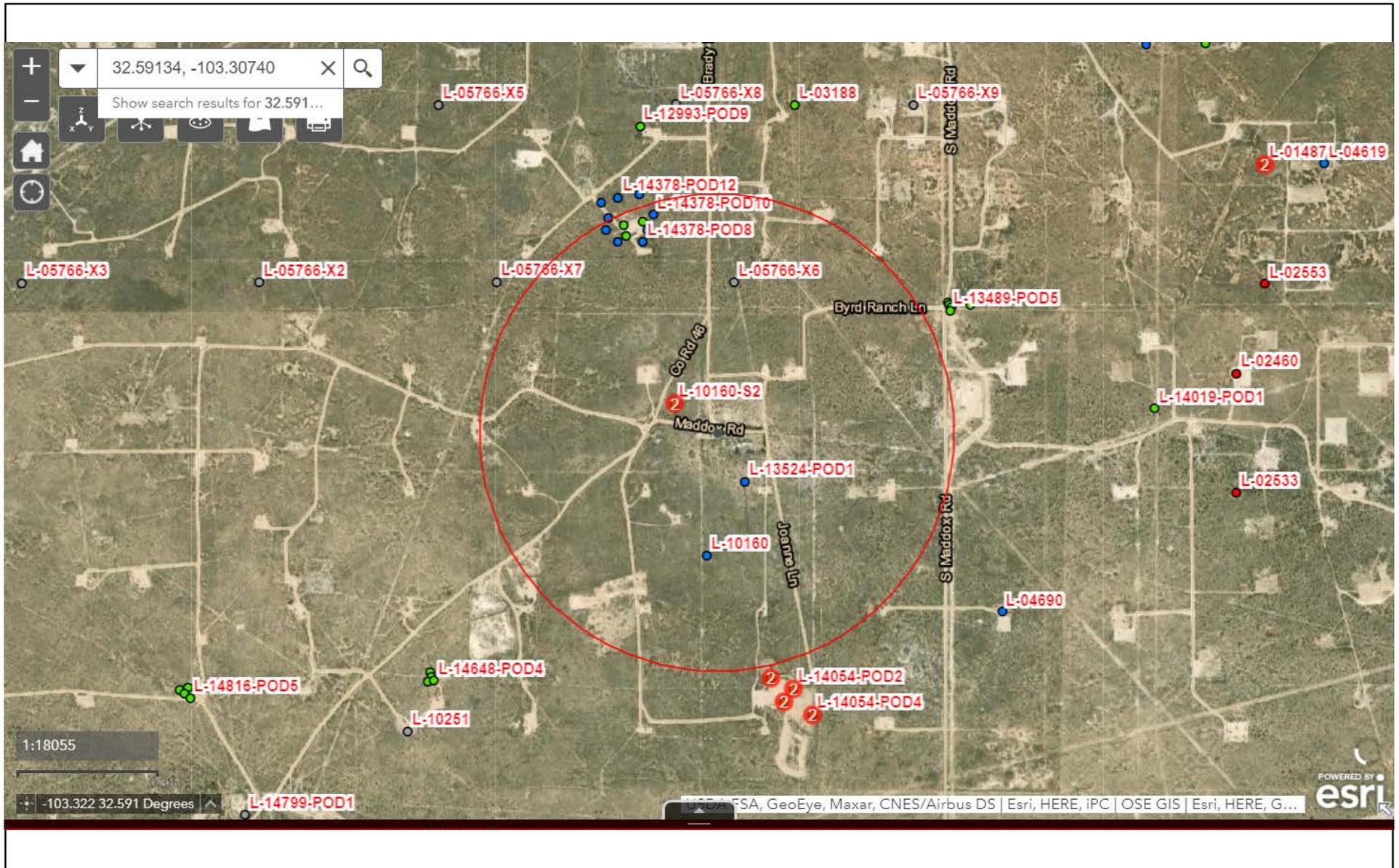
Legend

- Impacted Area
- Sample Location



60 ft

Figure 3. Water Source Map

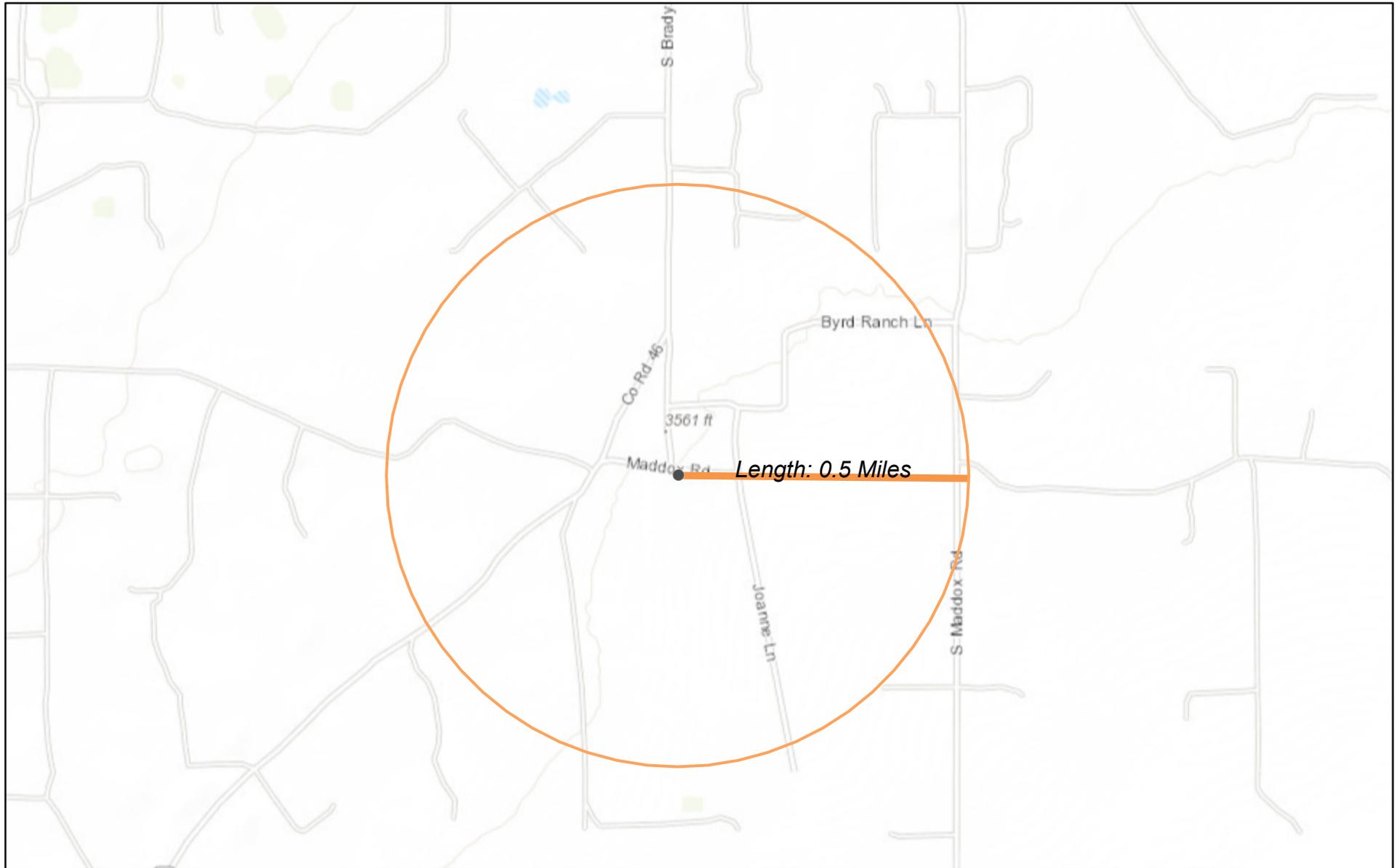


8/3/2020, 8:43:47 PM

0.5 mile radius

**Water Rights Lookup print function would not export data for review.

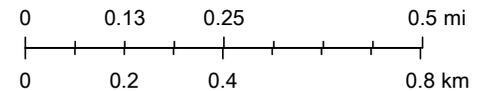
Figure 4 - Hydrology Map



8/3/2020, 8:43:47 PM

- Override 1
- ★ OCD District Offices
- Override 1

1:18,056



Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS,

New Mexico Oil Conservation Division

APPENDIX A

C-141

RXSoil, Inc.
201 Main St. Ste. 1360, Fort Worth, TX 76102

Incident ID	nrm2010837524
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: 7/14/2022
 email: larry.baker@apachecorp.com Telephone: 432-215-2284

OCD Only

Received by: _____ Date: _____

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: Jennifer Nobui Date: 11/15/2022

APPENDIX B
GROUNDWATER DEPTH WELL DATA



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
L	13524 POD1	1	3	2	12	20S	36E	658948	3607082

Driller License: 1456	Driller Company: WHITE DRILLING COMPANY	
Driller Name: WHITE, JOHN W		
Drill Start Date: 03/25/2014	Drill Finish Date: 03/25/2014	Plug Date:
Log File Date: 04/16/2014	PCW Rev Date:	Source: Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size: 2.00	Depth Well: 42 feet	Depth Water: 33 feet

Water Bearing Stratifications:	Top	Bottom	Description
	19	35	Other/Unknown
	35	42	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	26	41

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.

6/30/22 8:17 PM

POINT OF DIVERSION SUMMARY

APPENDIX C
DATA SUMMARY TABLE

RXSoil, Inc.
201 Main St. Ste. 1360, Fort Worth, TX 76102

WP Byrd - Sample Results												
Sample Name	Depth, ft	Sample Type	Sample Date	Received	Lab ID Sample	Chloride	Benzene	BTEX	GRO	DRO	EXT DRO	TPH
						Method 4500	8021B		8015M			
SP1	S	Delineation	7/10/2020	7/10/2020	H001822-01	<16.0	<0.200	8.74	707	24,600	5,340	30,647.0
SP1	1	Delineation	7/10/2020	7/10/2020	H001822-02	-	<0.050	17	717	1,910	105	2,732.0
SP1	2	Delineation	7/10/2020	7/10/2020	H001822-03	-	<0.200	3.29	97	616	53	766.0
SP1	3	Delineation	7/16/2020	7/16/2020	H001857-01	-	<0.050	0.4	42	791	143	975.5
SP1	4	Delineation	7/16/2020	7/16/2020	H001857-02	-	<0.050	<0.300	<10.0	<10.0	<10.0	<30
1	1	Excavation	6/8/2022	6/9/2022	H222454-01	-	-	-	<50.0	1880	667	2547
2	1	Excavation	6/8/2022	6/9/2022	H222454-02	-	-	-	130	3160	903	4193
3	1	Excavation	6/8/2022	6/10/2022	H222454-03	-	-	-	214	8630	3250	12094
4	1	Excavation	6/8/2022	6/10/2022	H222454-04	-	-	-	<50.0	1020	523	1543
5	1	Excavation	6/8/2022	6/9/2022	H222454-05	-	-	-	198	3200	843	4241
6	1	Excavation	6/8/2022	6/9/2022	H222454-06	-	-	-	485	3950	1120	5555
7	1	Excavation	6/8/2022	6/9/2022	H222454-07	-	-	-	859	5200	1370	7429
NMOCD Thresholds						600	10	50				100

BOLD results indicate results above threshold

- indicates tests were not ran

All units in mg/kg unless otherwise noted

APPENDIX D
INITIAL DELINEATION REPORT

RXSoil, Inc.
201 Main St. Ste. 1360, Fort Worth, TX 76102



303 Veterans Airpark Lane Midland, TX 79705

Remediation Plan Resubmittal

April 7, 2021

Re: WP Byrd Tank Battery
Case nRM2010837524

Background:

On 4/8/2020 a release occurred due a connection on an oil tank failed. The release (GPS: 32.591340, -103.307397) is located south of Monument, New Mexico in unit letters B&G section 12 township 20S range 36E. A groundwater survey was conducted utilizing USGS wells of record. The nearest well of record suggest the groundwater depth below the release to be 33 feet below ground surface. A remediation plan was submitted to OCD. The plan was rejected by OCD due to the release needed further delineation and to elaborate on physical agitation in regards to the deeper contamination of soil.

On 2/4/2021 a hand auger was utilized to delineate at SP 2 and SP 3. Samples were collected in one foot intervals to a depth of 4 feet. Horizontal 5 point composite surface samples were collected not to exceed 200 square feet. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Laboratory results were above table one standards for hydrocarbons at SP 2 and SP 3. On 2/22/2021 SP 2 and SP 3 were further delineated to a depth of 6 feet. All samples collected were submitted to a commercial laboratory for analysis of TPH and BTEX.

Apache Corporation proposes that the in-situ remediation proposed is the best course of action in an attempt to treat the contamination to the best extent possible due to the close proximity to infrastructure. The soil inside the berm will be tilled to loosen the top two feet and the product will be applied see the attached plan for further details of the process. The remediation will be completed within 90 days of OCD approval of the plan.

Enclosed: C-141, Updated Sample Map, Updated Laboratory Data, and Original Remediation Plan

Submitted by;

Bruce Baker

Environmental Technician
larry.baker@apachecorp.com
Cell# 432-631-6982

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.

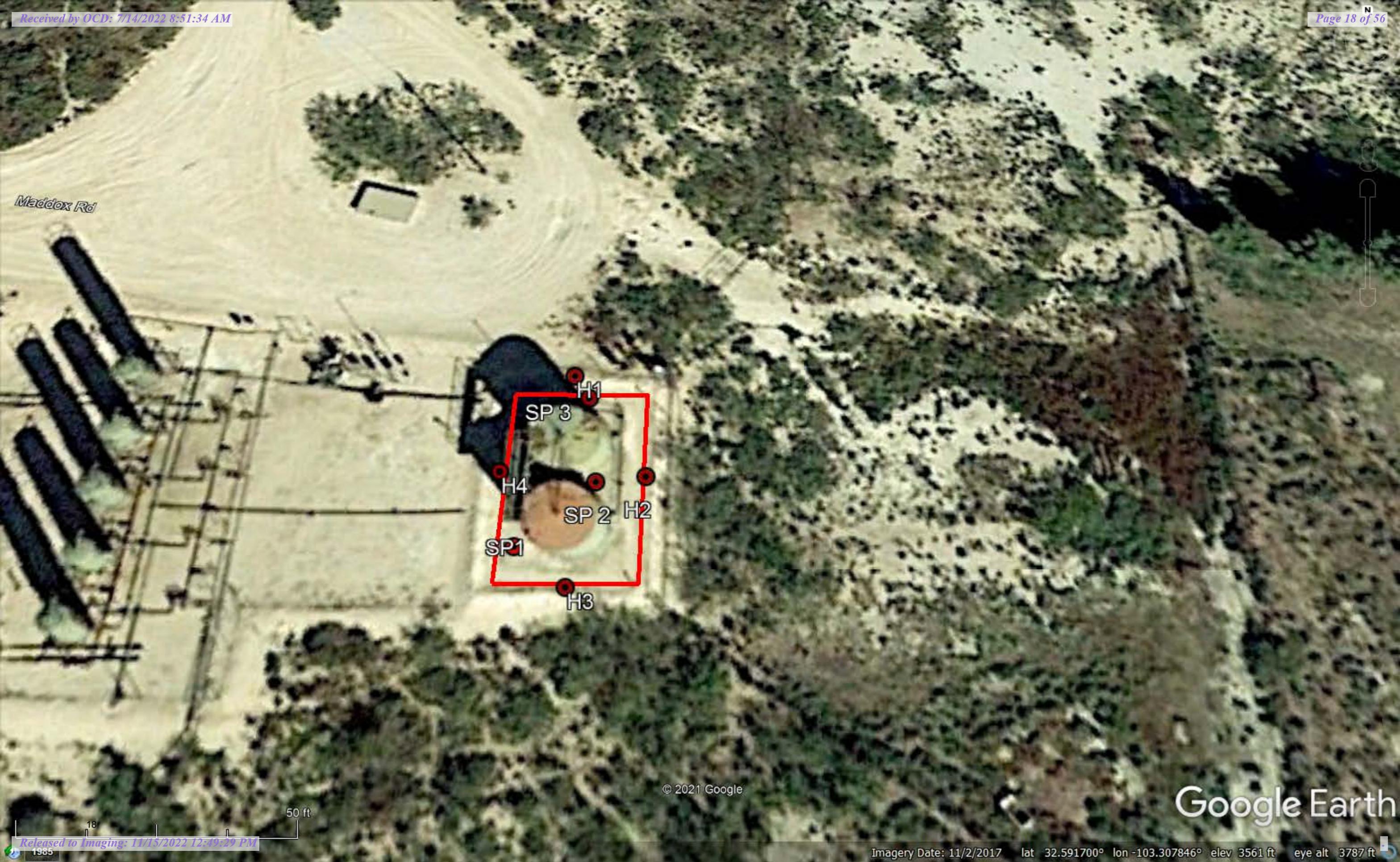
Printed Name: Larry Baker Title: Environmental Tech SR.
 Signature: *Larry Baker* Date: 4/7/2021
 email: larry.baker@apachecorp.com Telephone: 432-631-6982

OCD Only

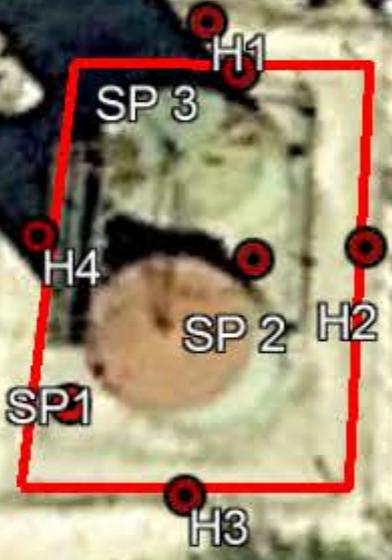
Received by: _____ Date: _____

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: _____ Date: _____



Maddox Rd



© 2021 Google

Google Earth

Sample Date	Sample ID	Depth	Chloride	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
7/10/2020	SP1	S	<16.0	<0.200	0.573	<0.200	8.170	8.74	707	24600	5340	32.591293 -103.307384
7/10/2020	SP1	1'		<0.050	2.29	<0.500	14.70	17.00	717	1910	105	
7/10/2020	SP1	2'		<0.200	0.301	<0.200	2.990	3.29	96.9	616	53.1	
7/16/2020	SP1	3'		<0.050	<0.050	<0.050	0.381	0.381	41.5	791	143	
7/16/2020	SP1	4'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
2/4/2021	SP2	S	32	<0.050	<0.050	0.218	0.267	0.485	<50.0	12200	4030	32.591330 -103.307351
2/4/2021	SP2	1'	32	0.179	2.6	<0.050	19.600	22.4	711	4680	1050	
2/4/2021	SP2	2'	<16.0	<0.050	<0.050	0.08	<0.150	<0.300	<10.0	31.7	39.2	
2/4/2021	SP2	3'	<16.0	<0.050	<0.050	0.078	<0.150	<0.300	<10.0	83.2	84.6	
2/4/2021	SP2	4'	16	<0.050	<0.050	0.307	0.342	0.649	60.1	1730	587	
2/22/2021	SP2	5'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	23.2	13	
2/22/2021	SP2	6'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	32.4	<10.0	
2/4/2021	SP3	S	<16.0	<0.050	<0.050	<0.050	0.627	0.627	75.6	11300	3020	32.591370 -103.307340
2/4/2021	SP3	1'	16	<0.050	0.381	2.24	7.980	10.6	697	6890	1580	
2/4/2021	SP3	2'	<16.0	<0.050	0.331	1.81	6.940	9.9	293	2630	641	
2/4/2021	SP3	3'	<16.0	<0.050	<0.050	0.167	0.658	0.825	37.5	781	217	
2/4/2021	SP3	4'	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	10.6	451	112	
2/22/2021	SP3	5'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	281	60.5	
2/22/2021	SP3	6'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	23.9	<10.0	
2/4/2021	HC1	S	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	12.3	<10.0	32.591404 -103.307351
2/4/2021	HC2	S	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.591336 -103.307300
2/4/2021	HC3	S	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.591269 -103.307349
2/4/2021	HC4	S	<16.0	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.591339 -103.307398



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

February 08, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WP BYRD

Enclosed are the results of analyses for samples received by the laboratory on 02/04/21 16:26.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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:	02/04/2021	Sampling Date:	02/04/2021
Reported:	02/08/2021	Sampling Type:	Soil
Project Name:	WP BYRD	Sampling Condition:	Cool & Intact
Project Number:	WP BIRD #1	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP 2 @ SURFACE (H210292-01)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2021	ND	2.13	107	2.00	0.822	
Toluene*	<0.050	0.050	02/05/2021	ND	2.09	104	2.00	1.10	
Ethylbenzene*	0.218	0.050	02/05/2021	ND	2.03	102	2.00	1.55	GC-NC1
Total Xylenes*	0.267	0.150	02/05/2021	ND	5.95	99.2	6.00	1.52	GC-NC1
Total BTEX	0.485	0.300	02/05/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 155 % 73.3-129

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	32.0	16.0	02/08/2021	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*	<50.0	50.0	02/05/2021	ND	216	108	200	6.41	
DRO >C10-C28*	12200	50.0	02/05/2021	ND	231	116	200	3.31	
EXT DRO >C28-C36	4030	50.0	02/05/2021	ND					

Surrogate: 1-Chlorooctane 95.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 296 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/04/2021	Sampling Date:	02/04/2021
Reported:	02/08/2021	Sampling Type:	Soil
Project Name:	WP BYRD	Sampling Condition:	Cool & Intact
Project Number:	WP BIRD #1	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP 2 @ 1' (H210292-02)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.179	0.050	02/05/2021	ND	2.13	107	2.00	0.822	
Toluene*	2.60	0.050	02/05/2021	ND	2.09	104	2.00	1.10	GC-NC1
Ethylbenzene*	<0.050	0.050	02/05/2021	ND	2.03	102	2.00	1.55	
Total Xylenes*	19.6	0.150	02/05/2021	ND	5.95	99.2	6.00	1.52	GC-NC1
Total BTEX	22.4	0.300	02/05/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 549 % 73.3-129

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	32.0	16.0	02/08/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	711	10.0	02/05/2021	ND	216	108	200	6.41	
DRO >C10-C28*	4680	10.0	02/05/2021	ND	231	116	200	3.31	
EXT DRO >C28-C36	1050	10.0	02/05/2021	ND					

Surrogate: 1-Chlorooctane 136 % 44.3-144

Surrogate: 1-Chlorooctadecane 190 % 42.2-156

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:	02/04/2021	Sampling Date:	02/04/2021
Reported:	02/08/2021	Sampling Type:	Soil
Project Name:	WP BYRD	Sampling Condition:	Cool & Intact
Project Number:	WP BIRD #1	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP 2 @ 2' (H210292-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2021	ND	2.13	107	2.00	0.822	
Toluene*	<0.050	0.050	02/05/2021	ND	2.09	104	2.00	1.10	
Ethylbenzene*	0.080	0.050	02/05/2021	ND	2.03	102	2.00	1.55	GC-NC1
Total Xylenes*	<0.150	0.150	02/05/2021	ND	5.95	99.2	6.00	1.52	
Total BTEX	<0.300	0.300	02/05/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

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	02/08/2021	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	02/05/2021	ND	216	108	200	6.41	
DRO >C10-C28*	31.7	10.0	02/05/2021	ND	231	116	200	3.31	
EXT DRO >C28-C36	39.2	10.0	02/05/2021	ND					

Surrogate: 1-Chlorooctane 77.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 82.1 % 42.2-156

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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: 02/04/2021
 Reported: 02/08/2021
 Project Name: WP BYRD
 Project Number: WP BIRD #1
 Project Location: NONE GIVEN

Sampling Date: 02/04/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 3' (H210292-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2021	ND	2.13	107	2.00	0.822	
Toluene*	<0.050	0.050	02/05/2021	ND	2.09	104	2.00	1.10	
Ethylbenzene*	0.078	0.050	02/05/2021	ND	2.03	102	2.00	1.55	GC-NC1
Total Xylenes*	<0.150	0.150	02/05/2021	ND	5.95	99.2	6.00	1.52	
Total BTEX	<0.300	0.300	02/05/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

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	02/08/2021	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	02/05/2021	ND	216	108	200	6.41	
DRO >C10-C28*	83.2	10.0	02/05/2021	ND	231	116	200	3.31	
EXT DRO >C28-C36	84.6	10.0	02/05/2021	ND					

Surrogate: 1-Chlorooctane 81.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.5 % 42.2-156

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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:	02/04/2021	Sampling Date:	02/04/2021
Reported:	02/08/2021	Sampling Type:	Soil
Project Name:	WP BYRD	Sampling Condition:	Cool & Intact
Project Number:	WP BIRD #1	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP 2 @ 4' (H210292-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2021	ND	2.13	107	2.00	0.822	
Toluene*	<0.050	0.050	02/05/2021	ND	2.09	104	2.00	1.10	
Ethylbenzene*	0.307	0.050	02/05/2021	ND	2.03	102	2.00	1.55	GC-NC1
Total Xylenes*	0.342	0.150	02/05/2021	ND	5.95	99.2	6.00	1.52	GC-NC1
Total BTEX	0.649	0.300	02/05/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 73.3-129

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	02/08/2021	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*	60.1	10.0	02/05/2021	ND	216	108	200	6.41	
DRO >C10-C28*	1730	10.0	02/05/2021	ND	231	116	200	3.31	
EXT DRO >C28-C36	587	10.0	02/05/2021	ND					

Surrogate: 1-Chlorooctane 93.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 114 % 42.2-156

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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:	02/04/2021	Sampling Date:	02/04/2021
Reported:	02/08/2021	Sampling Type:	Soil
Project Name:	WP BYRD	Sampling Condition:	Cool & Intact
Project Number:	WP BIRD #1	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP 3 @ SURFACE (H210292-06)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/08/2021	ND	2.04	102	2.00	7.85	
Toluene*	<0.050	0.050	02/08/2021	ND	2.00	100	2.00	7.95	
Ethylbenzene*	<0.050	0.050	02/08/2021	ND	1.95	97.6	2.00	8.27	
Total Xylenes*	0.627	0.150	02/08/2021	ND	5.71	95.2	6.00	7.99	GC-NC1
Total BTEX	0.627	0.300	02/08/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 73.3-129

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	<16.0	16.0	02/08/2021	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*	75.6	50.0	02/05/2021	ND	216	108	200	6.41	
DRO >C10-C28*	11300	50.0	02/05/2021	ND	231	116	200	3.31	
EXT DRO >C28-C36	3020	50.0	02/05/2021	ND					

Surrogate: 1-Chlorooctane 110 % 44.3-144

Surrogate: 1-Chlorooctadecane 259 % 42.2-156

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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:	02/04/2021	Sampling Date:	02/04/2021
Reported:	02/08/2021	Sampling Type:	Soil
Project Name:	WP BYRD	Sampling Condition:	Cool & Intact
Project Number:	WP BIRD #1	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP 3 @ 1' (H210292-07)

BTEX 8021B		mg/kg		Analyzed By: ms				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/06/2021	ND	2.01	100	2.00	0.410	QM-07	
Toluene*	0.381	0.050	02/06/2021	ND	2.02	101	2.00	0.480	GC-NC1	
Ethylbenzene*	2.24	0.050	02/06/2021	ND	2.01	100	2.00	0.117	GC-NC1	
Total Xylenes*	7.98	0.150	02/06/2021	ND	6.37	106	6.00	0.546	GC-NC1	
Total BTEX	10.6	0.300	02/06/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 144 % 73.3-129

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	16.0	16.0	02/08/2021	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	697	10.0	02/05/2021	ND	216	108	200	6.41		
DRO >C10-C28*	6890	10.0	02/05/2021	ND	231	116	200	3.31		
EXT DRO >C28-C36	1580	10.0	02/05/2021	ND						

Surrogate: 1-Chlorooctane 117 % 44.3-144

Surrogate: 1-Chlorooctadecane 203 % 42.2-156

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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:	02/04/2021	Sampling Date:	02/04/2021
Reported:	02/08/2021	Sampling Type:	Soil
Project Name:	WP BYRD	Sampling Condition:	Cool & Intact
Project Number:	WP BIRD #1	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP 3 @ 2' (H210292-08)

BTEX 8021B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/06/2021	ND	2.01	100	2.00	0.410	
Toluene*	0.331	0.050	02/06/2021	ND	2.02	101	2.00	0.480	GC-NC1
Ethylbenzene*	1.81	0.050	02/06/2021	ND	2.01	100	2.00	0.117	GC-NC1
Total Xylenes*	6.94	0.150	02/06/2021	ND	6.37	106	6.00	0.546	GC-NC1
Total BTEX	9.09	0.300	02/06/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 145 % 73.3-129

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	02/08/2021	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*	293	10.0	02/05/2021	ND	216	108	200	6.41	
DRO >C10-C28*	2630	10.0	02/05/2021	ND	231	116	200	3.31	
EXT DRO >C28-C36	641	10.0	02/05/2021	ND					

Surrogate: 1-Chlorooctane 88.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 108 % 42.2-156

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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:	02/04/2021	Sampling Date:	02/04/2021
Reported:	02/08/2021	Sampling Type:	Soil
Project Name:	WP BYRD	Sampling Condition:	Cool & Intact
Project Number:	WP BIRD #1	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP 3 @ 3' (H210292-09)

BTEX 8021B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/06/2021	ND	2.01	100	2.00	0.410	
Toluene*	<0.050	0.050	02/06/2021	ND	2.02	101	2.00	0.480	
Ethylbenzene*	0.167	0.050	02/06/2021	ND	2.01	100	2.00	0.117	GC-NC1
Total Xylenes*	0.658	0.150	02/06/2021	ND	6.37	106	6.00	0.546	GC-NC1
Total BTEX	0.825	0.300	02/06/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 151 % 73.3-129

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	02/08/2021	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*	37.5	10.0	02/05/2021	ND	216	108	200	6.41	
DRO >C10-C28*	781	10.0	02/05/2021	ND	231	116	200	3.31	
EXT DRO >C28-C36	217	10.0	02/05/2021	ND					

Surrogate: 1-Chlorooctane 96.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 101 % 42.2-156

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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:	02/04/2021	Sampling Date:	02/04/2021
Reported:	02/08/2021	Sampling Type:	Soil
Project Name:	WP BYRD	Sampling Condition:	Cool & Intact
Project Number:	WP BIRD #1	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: SP 3 @ 4' (H210292-10)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2021	ND	2.01	100	2.00	0.410	
Toluene*	<0.050	0.050	02/05/2021	ND	2.02	101	2.00	0.480	
Ethylbenzene*	<0.050	0.050	02/05/2021	ND	2.01	100	2.00	0.117	
Total Xylenes*	<0.150	0.150	02/05/2021	ND	6.37	106	6.00	0.546	
Total BTEX	<0.300	0.300	02/05/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.3-129

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	02/08/2021	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*	10.6	10.0	02/05/2021	ND	216	108	200	6.41	
DRO >C10-C28*	451	10.0	02/05/2021	ND	231	116	200	3.31	
EXT DRO >C28-C36	112	10.0	02/05/2021	ND					

Surrogate: 1-Chlorooctane 89.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.9 % 42.2-156

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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:	02/04/2021	Sampling Date:	02/04/2021
Reported:	02/08/2021	Sampling Type:	Soil
Project Name:	WP BYRD	Sampling Condition:	Cool & Intact
Project Number:	WP BIRD #1	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: H 1 (H210292-11)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2021	ND	2.01	100	2.00	0.410	
Toluene*	<0.050	0.050	02/05/2021	ND	2.02	101	2.00	0.480	
Ethylbenzene*	<0.050	0.050	02/05/2021	ND	2.01	100	2.00	0.117	
Total Xylenes*	<0.150	0.150	02/05/2021	ND	6.37	106	6.00	0.546	
Total BTEX	<0.300	0.300	02/05/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

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	02/08/2021	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	02/05/2021	ND	215	108	200	8.28	
DRO >C10-C28*	12.3	10.0	02/05/2021	ND	221	110	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	02/05/2021	ND					

Surrogate: 1-Chlorooctane 85.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 82.0 % 42.2-156

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:	02/04/2021	Sampling Date:	02/04/2021
Reported:	02/08/2021	Sampling Type:	Soil
Project Name:	WP BYRD	Sampling Condition:	Cool & Intact
Project Number:	WP BIRD #1	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: H 2 (H210292-12)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2021	ND	2.01	100	2.00	0.410	
Toluene*	<0.050	0.050	02/05/2021	ND	2.02	101	2.00	0.480	
Ethylbenzene*	<0.050	0.050	02/05/2021	ND	2.01	100	2.00	0.117	
Total Xylenes*	<0.150	0.150	02/05/2021	ND	6.37	106	6.00	0.546	
Total BTEX	<0.300	0.300	02/05/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/08/2021	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	02/05/2021	ND	215	108	200	8.28	
DRO >C10-C28*	<10.0	10.0	02/05/2021	ND	221	110	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	02/05/2021	ND					

Surrogate: 1-Chlorooctane 93.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.9 % 42.2-156

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/04/2021	Sampling Date:	02/04/2021
Reported:	02/08/2021	Sampling Type:	Soil
Project Name:	WP BYRD	Sampling Condition:	Cool & Intact
Project Number:	WP BIRD #1	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: H 3 (H210292-13)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2021	ND	2.01	100	2.00	0.410	
Toluene*	<0.050	0.050	02/05/2021	ND	2.02	101	2.00	0.480	
Ethylbenzene*	<0.050	0.050	02/05/2021	ND	2.01	100	2.00	0.117	
Total Xylenes*	<0.150	0.150	02/05/2021	ND	6.37	106	6.00	0.546	
Total BTEX	<0.300	0.300	02/05/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/08/2021	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	02/05/2021	ND	215	108	200	8.28	
DRO >C10-C28*	<10.0	10.0	02/05/2021	ND	221	110	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	02/05/2021	ND					

Surrogate: 1-Chlorooctane 72.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 69.2 % 42.2-156

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:	02/04/2021	Sampling Date:	02/04/2021
Reported:	02/08/2021	Sampling Type:	Soil
Project Name:	WP BYRD	Sampling Condition:	Cool & Intact
Project Number:	WP BIRD #1	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: H 4 (H210292-14)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2021	ND	2.01	100	2.00	0.410	
Toluene*	<0.050	0.050	02/05/2021	ND	2.02	101	2.00	0.480	
Ethylbenzene*	<0.050	0.050	02/05/2021	ND	2.01	100	2.00	0.117	
Total Xylenes*	<0.150	0.150	02/05/2021	ND	6.37	106	6.00	0.546	
Total BTEX	<0.300	0.300	02/05/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.3-129

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	02/08/2021	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	02/05/2021	ND	215	108	200	8.28	
DRO >C10-C28*	<10.0	10.0	02/05/2021	ND	221	110	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	02/05/2021	ND					

Surrogate: 1-Chlorooctane 78.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 75.6 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- S-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.
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.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
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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Handwritten signature of 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: <i>Apache Corporation</i> Project Manager: <i>Paul Baker</i>		P.O. #: _____ Company: _____ Attn: _____								
Address: _____ City: _____ State: _____ Zip: _____		Address: _____ City: _____ State: _____ Zip: _____								
Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____		City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____								
Project Name: <i>WIP BYRD #1</i> Project Location: <i>WIP BYRD #1</i>		State: _____ Zip: _____ Phone #: _____ Fax #: _____								
Sampler Name: <i>Jeff Brown</i>		FOR LAB USE ONLY								
Lab I.D. <i>H21D092</i> 1 <i>SP2 @ Surface</i> 2 <i>SP2 @ T'</i> 3 <i>SP2 @ 2'</i> 4 <i>SP2 @ 3'</i> 5 <i>SP2 @ 4'</i> 6 <i>SP3 @ Surface</i> 7 <i>SP3 @ T'</i> 8 <i>SP3 @ 2'</i> 9 <i>SP3 @ 3'</i> 10 <i>SP3 @ 4'</i>	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	DATE TIME	ANALYSIS REQUEST CL BTEX EXT. TPH							
				6	6	8/4/21	1420	✓	✓	✓
				6	6	8/4/21	1422	✓	✓	✓
				6	6	8/4/21	1422	✓	✓	✓
				6	6	8/4/21	1418	✓	✓	✓
				6	6	8/4/21	1418	✓	✓	✓
				6	6	8/4/21	1418	✓	✓	✓
				6	6	8/4/21	1422	✓	✓	✓
				6	6	8/4/21	1424	✓	✓	✓
				6	6	8/4/21	1426	✓	✓	✓
				6	6	8/4/21	1428	✓	✓	✓

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Relinquished By: *Jeff Brown* Date: *8/4/21* Time: *14:28*
 Received By: *Spodi Henderson*

Delivered By: (Circle One) UPS Bus Other: *2.72 / #113*

Sample Condition: Cool Intact Yes No Yes No

CHECKED BY: *[Signature]*

REMARKS: *Standard*

Phone Result: Yes No Add'l Phone #: _____
 Fax Result: Yes No Add'l Fax #: _____



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

February 23, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: WP BYRD #1

Enclosed are the results of analyses for samples received by the laboratory on 02/22/21 11:53.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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:	02/22/2021	Sampling Date:	02/22/2021
Reported:	02/23/2021	Sampling Type:	Soil
Project Name:	WP BYRD #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 2 @ 5' (H210413-01)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2021	ND	1.91	95.6	2.00	1.35	
Toluene*	<0.050	0.050	02/22/2021	ND	1.96	97.9	2.00	1.18	
Ethylbenzene*	<0.050	0.050	02/22/2021	ND	1.95	97.5	2.00	0.909	
Total Xylenes*	<0.150	0.150	02/22/2021	ND	6.03	100	6.00	0.442	
Total BTEX	<0.300	0.300	02/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

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	02/22/2021	ND	206	103	200	4.95	
DRO >C10-C28*	23.2	10.0	02/22/2021	ND	214	107	200	4.23	
EXT DRO >C28-C36	13.0	10.0	02/22/2021	ND					

Surrogate: 1-Chlorooctane 107 % 44.3-144

Surrogate: 1-Chlorooctadecane 115 % 42.2-156

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:	02/22/2021	Sampling Date:	02/22/2021
Reported:	02/23/2021	Sampling Type:	Soil
Project Name:	WP BYRD #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 2 @ 6' (H210413-02)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2021	ND	1.91	95.6	2.00	1.35	
Toluene*	<0.050	0.050	02/22/2021	ND	1.96	97.9	2.00	1.18	
Ethylbenzene*	<0.050	0.050	02/22/2021	ND	1.95	97.5	2.00	0.909	
Total Xylenes*	<0.150	0.150	02/22/2021	ND	6.03	100	6.00	0.442	
Total BTEX	<0.300	0.300	02/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

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	02/22/2021	ND	206	103	200	4.95	
DRO >C10-C28*	32.4	10.0	02/22/2021	ND	214	107	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	02/22/2021	ND					

Surrogate: 1-Chlorooctane 105 % 44.3-144

Surrogate: 1-Chlorooctadecane 114 % 42.2-156

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:	02/22/2021	Sampling Date:	02/22/2021
Reported:	02/23/2021	Sampling Type:	Soil
Project Name:	WP BYRD #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 3 @ 5' (H210413-03)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/22/2021	ND	1.91	95.6	2.00	1.35		
Toluene*	<0.050	0.050	02/22/2021	ND	1.96	97.9	2.00	1.18		
Ethylbenzene*	<0.050	0.050	02/22/2021	ND	1.95	97.5	2.00	0.909		
Total Xylenes*	<0.150	0.150	02/22/2021	ND	6.03	100	6.00	0.442		
Total BTEX	<0.300	0.300	02/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.3-129

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	02/22/2021	ND	206	103	200	4.95		
DRO >C10-C28*	281	10.0	02/22/2021	ND	214	107	200	4.23		
EXT DRO >C28-C36	60.5	10.0	02/22/2021	ND						

Surrogate: 1-Chlorooctane 109 % 44.3-144

Surrogate: 1-Chlorooctadecane 125 % 42.2-156

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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:	02/22/2021	Sampling Date:	02/22/2021
Reported:	02/23/2021	Sampling Type:	Soil
Project Name:	WP BYRD #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP 3 @ 6' (H210413-04)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2021	ND	1.91	95.6	2.00	1.35	
Toluene*	<0.050	0.050	02/22/2021	ND	1.96	97.9	2.00	1.18	
Ethylbenzene*	<0.050	0.050	02/22/2021	ND	1.95	97.5	2.00	0.909	
Total Xylenes*	<0.150	0.150	02/22/2021	ND	6.03	100	6.00	0.442	
Total BTEX	<0.300	0.300	02/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.3-129

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	02/22/2021	ND	206	103	200	4.95	
DRO >C10-C28*	23.9	10.0	02/22/2021	ND	214	107	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	02/22/2021	ND					

Surrogate: 1-Chlorooctane 104 % 44.3-144

Surrogate: 1-Chlorooctadecane 112 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Grease Corporation</u> Project Manager: <u>Anna Baker</u> Address: City: State: Zip: Phone #: Fax #: Project #: Project Owner: Project Location: <u>WP Blvd #1</u> Sampler Name: <u>Jeff Brown</u>		P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #: Project #: Project Owner: Project Location: <u>WP Blvd #1</u> Sampler Name: <u>Jeff Brown</u>	
BILL TO			
ANALYSIS REQUEST			
Lab I.D. <u>HAID413</u> Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	MATRIX PRESERV SAMPLING	DATE TIME
1 SP205' 2 SP206' 3 SP305' 4 SP306'	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	9/29/21 0530 9/29/21 0932 9/29/21 0946 9/29/21 0948
BTEX EXT. TPH			
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Relinquished By: <u>Jeff Brown</u> Date: <u>9/29/21</u> Time: <u>11:58</u>	Received By: <u>Jessica Black</u> Date: _____ Time: _____	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C <u>3.7</u> Corrected Temp. °C	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: (Initials) <u>TD</u> Turnaround Time: <u>Standard</u> <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #113 <input type="checkbox"/> Correction Factor None <input type="checkbox"/> Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Yes <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C
REMARKS:			

APPENDIX E
SITE PHOTOGRAPHS



RXSoil, Inc.
201 Main St. Ste. 1360, Fort Worth, TX 76102

APPENDIX F
LABORATORY REPORT

RXSoil, Inc.
201 Main St. Ste. 1360, Fort Worth, TX 76102



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

June 13, 2022

MATTHEW LONGCRIER
RX-SOIL INC.
201 MAIN STREET, SUITE 1360
FORT WORTH, TX 76102

RE: W.P. BYRD

Enclosed are the results of analyses for samples received by the laboratory on 06/09/22 8:25.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

RX-SOIL INC.
 MATTHEW LONGCRIER
 201 MAIN STREET, SUITE 1360
 FORT WORTH TX, 76102
 Fax To: NA

Received:	06/09/2022	Sampling Date:	06/08/2022
Reported:	06/13/2022	Sampling Type:	Soil
Project Name:	W.P. BYRD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	APACHE - EUNICE, NM		

Sample ID: 1 (H222454-01)

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	06/09/2022	ND	194	97.2	200	1.35	
DRO >C10-C28*	1880	50.0	06/09/2022	ND	183	91.7	200	1.18	
EXT DRO >C28-C36	667	50.0	06/09/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	94.6 %	66.9-136							
Surrogate: 1-Chlorooctadecane	119 %	59.5-142							

Sample ID: 2 (H222454-02)

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*	130	50.0	06/09/2022	ND	194	97.2	200	1.35		
DRO >C10-C28*	3160	50.0	06/09/2022	ND	183	91.7	200	1.18		
EXT DRO >C28-C36	903	50.0	06/09/2022	ND						
<hr/>										
Surrogate: 1-Chlorooctane	108 %	66.9-136								
Surrogate: 1-Chlorooctadecane	192 %	59.5-142								

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

RX-SOIL INC.
 MATTHEW LONGCRIER
 201 MAIN STREET, SUITE 1360
 FORT WORTH TX, 76102
 Fax To: NA

Received:	06/09/2022	Sampling Date:	06/08/2022
Reported:	06/13/2022	Sampling Type:	Soil
Project Name:	W.P. BYRD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	APACHE - EUNICE, NM		

Sample ID: 3 (H222454-03)

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*	214	100	06/10/2022	ND	194	97.2	200	1.35	
DRO >C10-C28*	8630	100	06/10/2022	ND	183	91.7	200	1.18	
EXT DRO >C28-C36	3250	100	06/10/2022	ND					

Surrogate: 1-Chlorooctane 129 % 66.9-136
 Surrogate: 1-Chlorooctadecane 400 % 59.5-142

Sample ID: 4 (H222454-04)

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<50.0	50.0	06/10/2022	ND	194	97.2	200	1.35	
DRO >C10-C28*	1020	50.0	06/10/2022	ND	183	91.7	200	1.18	
EXT DRO >C28-C36	523	50.0	06/10/2022	ND					

Surrogate: 1-Chlorooctane 88.3 % 66.9-136
 Surrogate: 1-Chlorooctadecane 93.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

RX-SOIL INC.
 MATTHEW LONGCRIER
 201 MAIN STREET, SUITE 1360
 FORT WORTH TX, 76102
 Fax To: NA

Received:	06/09/2022	Sampling Date:	06/08/2022
Reported:	06/13/2022	Sampling Type:	Soil
Project Name:	W.P. BYRD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	APACHE - EUNICE, NM		

Sample ID: 5 (H222454-05)

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*	198	100	06/09/2022	ND	190	94.8	200	4.81	
DRO >C10-C28*	3200	100	06/09/2022	ND	194	96.9	200	2.10	
EXT DRO >C28-C36	843	100	06/09/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	127 %	66.9-136							
Surrogate: 1-Chlorooctadecane	189 %	59.5-142							

Sample ID: 6 (H222454-06)

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*	485	100	06/09/2022	ND	190	94.8	200	4.81	
DRO >C10-C28*	3950	100	06/09/2022	ND	194	96.9	200	2.10	
EXT DRO >C28-C36	1120	100	06/09/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	160 %	66.9-136							
Surrogate: 1-Chlorooctadecane	380 %	59.5-142							

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Analytical Results For:

RX-SOIL INC.
 MATTHEW LONGCRIER
 201 MAIN STREET, SUITE 1360
 FORT WORTH TX, 76102
 Fax To: NA

Received:	06/09/2022	Sampling Date:	06/08/2022
Reported:	06/13/2022	Sampling Type:	Soil
Project Name:	W.P. BYRD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	APACHE - EUNICE, NM		

Sample ID: 7 (H222454-07)

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*	859	100	06/09/2022	ND	190	94.8	200	4.81		
DRO >C10-C28*	5200	100	06/09/2022	ND	194	96.9	200	2.10		
EXT DRO >C28-C36	1370	100	06/09/2022	ND						

Surrogate: 1-Chlorooctane 165 % 66.9-136
 Surrogate: 1-Chlorooctadecane 251 % 59.5-142

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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.
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

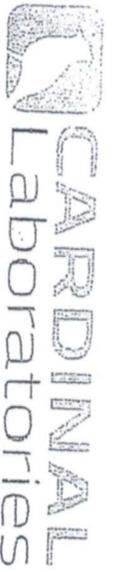
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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101

BILL TO

ANALYSIS REQUEST

Company Name: **RSOI**
 Project Manager: **Matt**
 Address:
 City: State: Zip:
 Phone #: Fax #:
 Project #:
 Project Name: **WP B-1-CP**
 Project Location: **Enrico Run**
 Sampler Name: **Matt**

P.O. #:
 Company: **ARCC**
 Attn: **Bruce Baker**
 Address:
 City: State: Zip:
 Phone #: Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	REMARKS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:			
AB03491										48	5:00	TPH	
										6/18	5:00		

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Relinquished By: *[Signature]*
 Date: **8-9-22**
 Time: **0825**
 Received By: *[Signature]*
 Date: **8-9-22**
 Time: **0825**

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

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other:
 Observed Temp. °C: **-21**
 Corrected Temp. °C: **2.6**
 Sample Condition Cool Intact Yes No
 CHECKED BY: *[Signature]*
 Turnaround Time: Standard Add'l
 Thermometer ID #113
 Correction Factor Form: **-0.5°C**
 Bacteria (only) Sample Condition Cool Intact Yes No
 Corrected Temp. °C

END OF REPORT

RXSoil, Inc.
201 Main St. Ste. 1360, Fort Worth, TX 76102

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 125359

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 125359
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Deferral Request Approved. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue. The OCD will not close a release, where contaminants are left in place, due to close proximity to equipment. The incident will only be closed after all contaminated soil has been remediated to meet OCD Spill Rule Standards. Please provide OCD with additional data regarding RX Biotics application (how much was used, confirmation lab data, etc) so OCD can further evaluate effectiveness of in-situ remediation for possible future applications.	11/15/2022