



Closure Plan

Apache Corporation
Sinclair B State #3 Pit
30-025-09248
Lea County, NM



New Mexico Oil Conservation Division
District 1 – Hobbs
1625 N. French Drive
Hobbs, New Mexico 88240

May 30, 2019

RXSoil, Inc.

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Background

Due to lack of growth in the area of a non-permitted historical pit (see *Figure 1* for Vicinity Map), an initial delineation was performed, and contamination was discovered (see *Appendix A* for data and *Figure 2* for Site Overview with sample locations). Apache Corporation has determined remediation will be required. There is no release associated with this contamination.

RXSoil, Inc. ("RXSoil") is submitting this closure plan proposal to the OCD for the on-site bioremediation of hydrocarbon contaminated soil at the historical pit (32.33799, -103.25886) located in U/L D, Section 3, Township 23S, Range 36E associated with the following site:

Sinclair B State #3
30-025-09248.

This treatment will provide the following benefits:

- Bioremediation of distressed soils using non-invasive processes.
- Enhance soil health to accelerate regrowth in affected areas.
- Minimize disruption to adjacent land and property.
- Minimize the need to transport soil via trucks, avoiding damaging roadways.
- Avoid importing foreign soils from other areas.
- Reduce carbon footprint using naturally occurring and environmentally friendly products.

Site Assessment

USGS lists USGS 321936103154601, located approximately 3,000' to the southwest, as the closest well to the pit location. Between 1965 and 2016, 11 groundwater measurements were recorded with all depths to groundwater listed between 162' and 167' (*Appendix B*). New Mexico Office of the State Engineer lists the nearest well with groundwater depth as approximately 7,475' to the northeast and signifies depth to water is 160' (*Appendix C*). Per Google Earth, the USGS well elevation is 3,493, the pit area elevation is 3,490' and the NM OSE well elevation is 3,514'. These two sources provide strong evidence that groundwater is greater than 100' below the bottom of the buried waste (See *Figure 3* for Hydrology Map).

Based on initial delineation (*Appendix A* with laboratory report as *Appendix E*), there are elevated TPH levels in SP 1 to 13', SP 2 to 9' and SP 4 to 6'. Chloride tests (Method 4500) and BTEX tests (8021B) were also conducted on each sample with no results exceeding thresholds listed in NMAC 19.15.17 Table II for areas with minimum depth to groundwater >100 feet.

Remediation Plan

RXSoil will use in-situ bioremediation to address the contamination in order to regrow vegetation and get below regulatory thresholds. RXSoil will supervise all construction with approval from area utilities owners via NM 811.

Per NMAC 19.15.17.13.E, RXSoil and Apache will notify the surface owner (State Land Office) by certified mail, return receipt requested that the operator plans closure operations at least 72 hours, but not more than one week, prior to any closure operation. This notice shall include well name, API number and location.

RXSoil will till the asphaltene-like substance on the surface of the pit area to allow for treatment.

RXSoil will guide and supervise drilling boreholes in a grid-like pattern. Approximately 90 boreholes will be drilled and backfilled with gravel for treatment. A delivery system will be installed in the boreholes as well as on the surface to ensure even coverage of bioremediation products.

RXSoil will treat the contaminated soil via boreholes and topical applications periodically over an estimated 180-day period. RXSoil will use RXBiotics, a mixture of naturally occurring, non-genetically modified bacteria and micronutrients specifically selected to reduce total petroleum hydrocarbons. Efforts will be made to minimize water usage. Instruments will be installed on the outer edges of the pit area to ensure minimal migration of solution.

Following the initial treatment, soil samples will be taken to check remediation status. A total of 10 new boreholes will be drilled for sampling. Two five-point composite samples (sampling borehole locations shown in *Figure 4*) will be collected and analyzed at the surface and then at three-foot increments down to 15' below ground surface for a total of 12 samples throughout the profile. Samples will be directly transferred into glass jars, sealed shut and transported on ice to a third-party lab for TPH testing. Initial delineation provides strong evidence that no chloride or BTEX contamination is present.

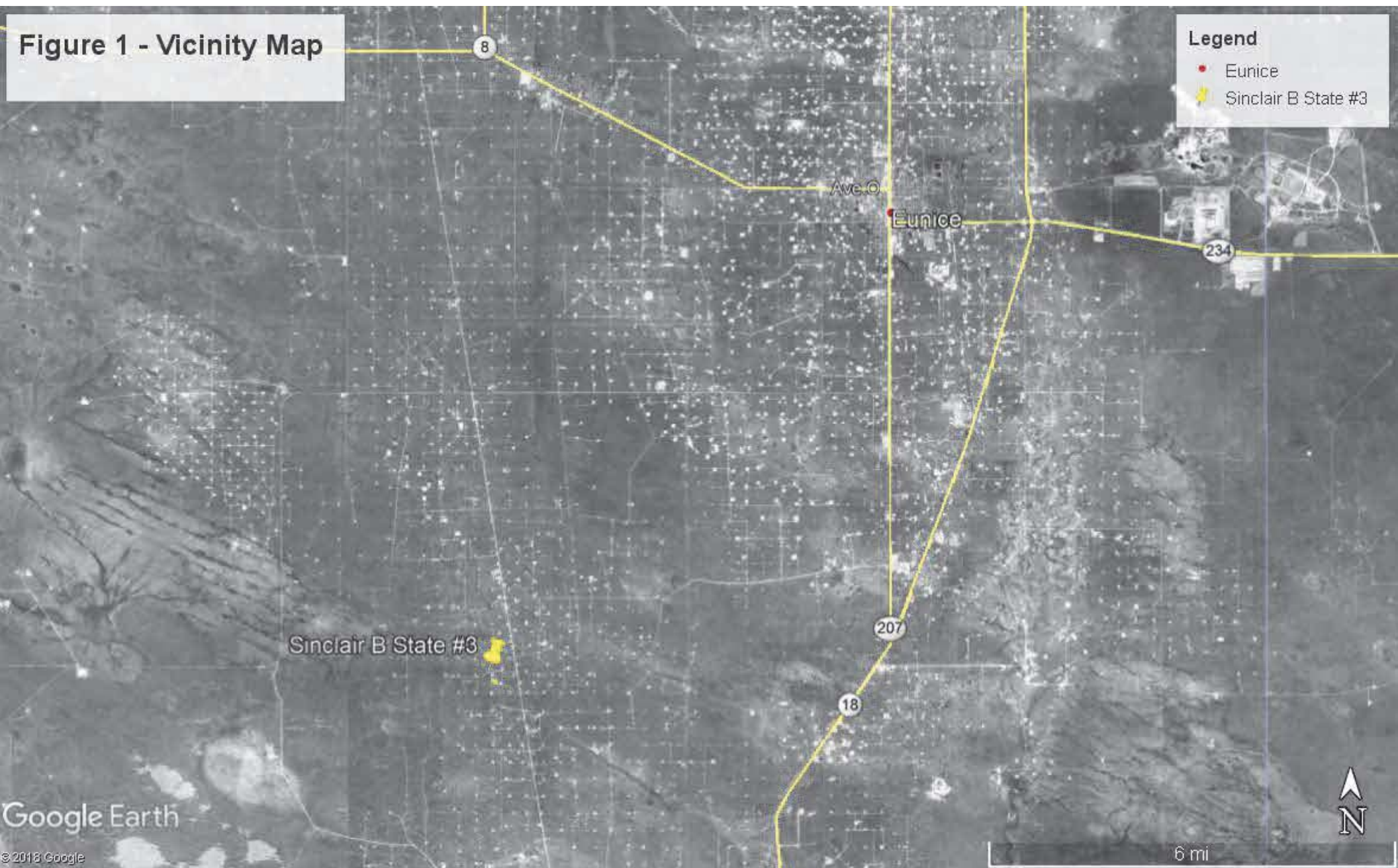
Following this round of testing, an assessment will be made about the efficacy of this process. If any of the results are above the thresholds listed for groundwater >100 feet in NMAC 19.15.17 Table II, treatment will continue in that area. The area will be considered remediated when all samples test below regulatory thresholds.

Restoration, Reclamation and Re-vegetation

The restoration, reclamation and re-vegetation plan for this site are described in the Restoration Plan, attached as *Appendix D*.

A closure report will then be submitted summarizing all remedial and reclamation efforts completed.

Figure 1 - Vicinity Map



Legend

- Eunice
- ✶ Sinclair B State #3



6 mi

Google Earth

© 2018 Google

Figure 2 - Site Overview

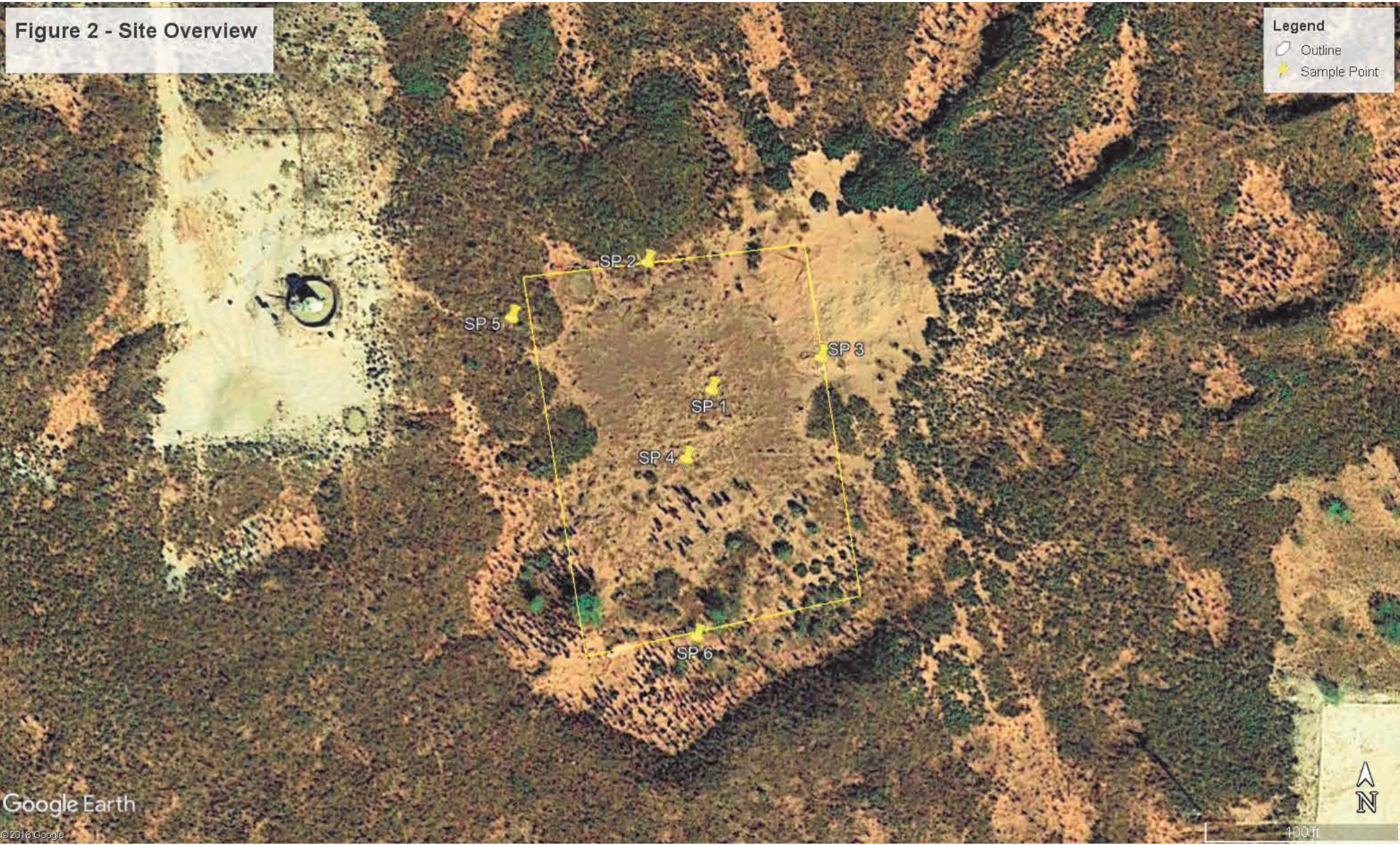
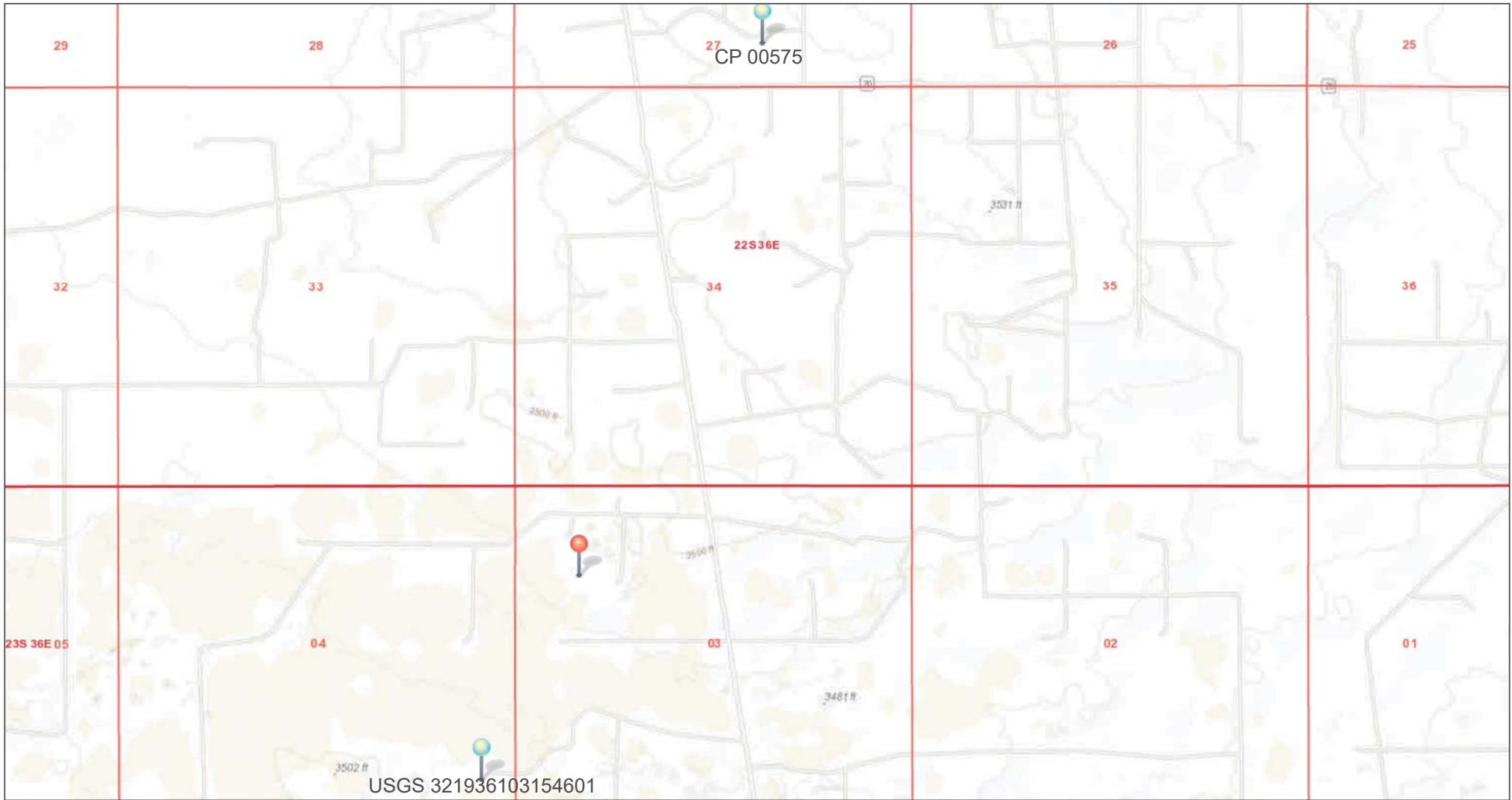
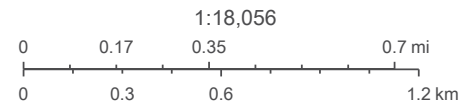


Figure 3. Hydrology Map



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- | | | | |
|----------|----------------|----------------------|----------------------|
| Points | Well Site | OCD District Offices | OSE Water-bodies |
| Pit Site | OCD Districts | PLSS First Division | PLJV Probable Playas |
| | PLSS Townships | OSE Streams | |



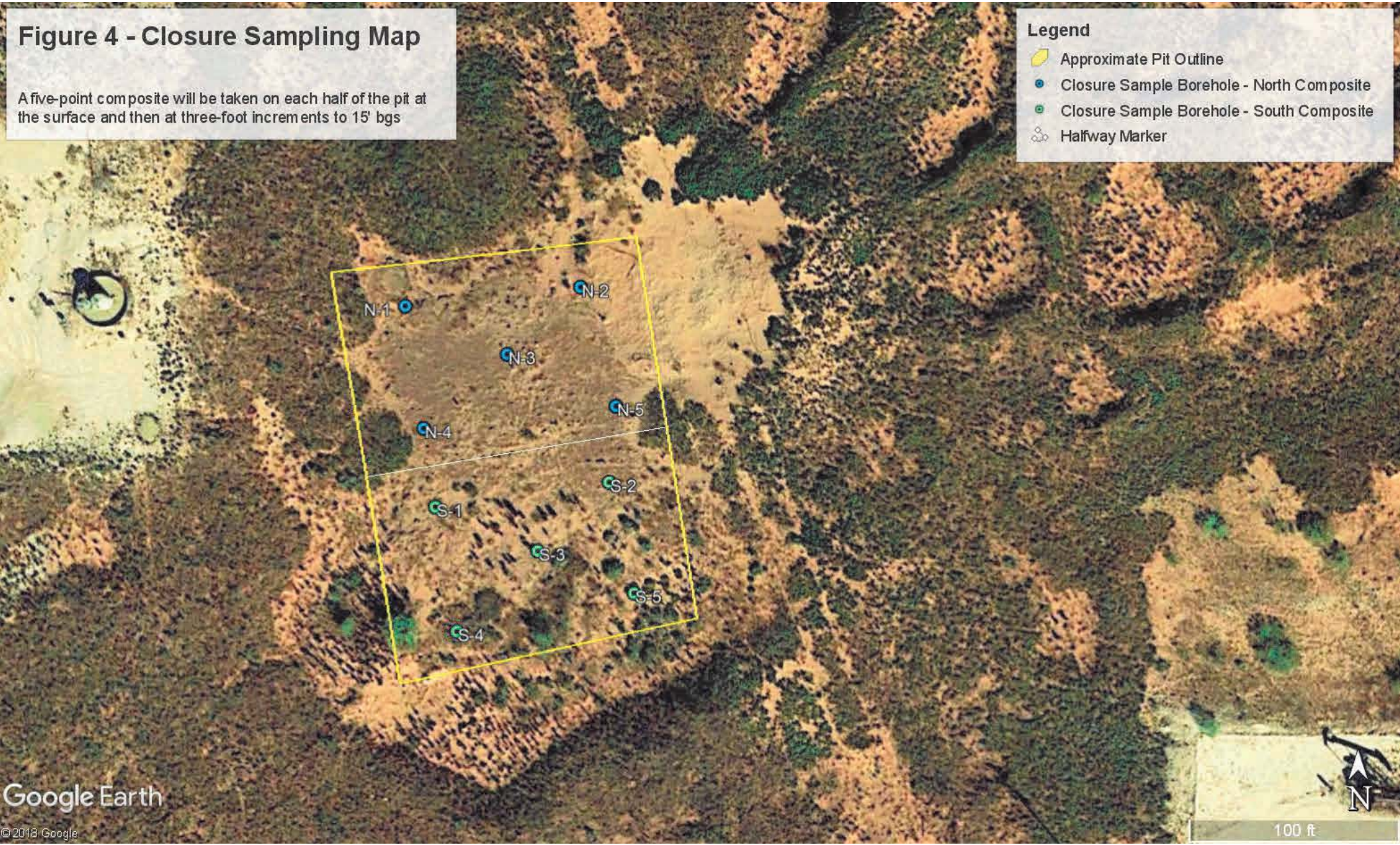
Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, METI/NASA, EPA, USDA, OCD, BLM

Figure 4 - Closure Sampling Map

A five-point composite will be taken on each half of the pit at the surface and then at three-foot increments to 15' bgs

Legend

- Approximate Pit Outline
- Closure Sample Borehole - North Composite
- Closure Sample Borehole - South Composite
- Halfway Marker



APPENDIX A

DELINEATION SUMMARY TABLE

Delineation Samples									
Sample Date	Lab ID	Sample Point	Depth feet	Chloride	Benzene	BTEX	GRO	DRO	TPH
				Method 4500	8021B	8015M			
7/24/2018	H802019-01	1	1	32.0	<0.050	<0.300	<100	1720	2377
7/24/2018	H802019-02	1	2	<16.0	<0.050	2.53	162	10300	12672
7/24/2018	H802019-03	1	3	<16.0	1.48	49.0	2080	31300	39790
7/24/2018	H802019-04	1	4	<16.0	<0.500	13.7	758	21000	25858
7/24/2018	H802019-05	1	5	<16.0	0.071	4.52	105	2040	2317
7/24/2018	H802019-06	1	6	<16.0	0.059	4.31	94.4	1440	1637
7/24/2018	H802019-07	1	7	<16.0	<1.00	21.2	1230	28300	35220
7/24/2018	H802019-08	1	8	<16.0	0.409	22.5	450	9140	11120
7/24/2018	H802019-09	1	9	<16.0	0.622	47.4	981	11300	13791
9/4/2018	H802495-01	1	10	<16.0	<0.500	16.1	278	3750	4475
9/4/2018	H802495-02	1	11	<16.0	<0.500	3.18	195	4760	5557
9/4/2018	H802495-03	1	12	<16.0	<0.500	7.21	188	3000	3378
9/4/2018	H802495-04	1	13	<16.0	<0.050	0.976	37	1080	1256
9/4/2018	H802495-05	1	14	48.0	<0.050	<0.300	<10.0	15.4	15.4
9/4/2018	H802495-06	1	15	<16.0	<0.050	<0.300	<10.0	33.7	33.7
9/4/2018	H802495-07	1	16	<16.0	<0.050	<0.300	<10.0	59.1	59.1
9/4/2018	H802495-08	1	17	16.0	<0.050	<0.300	<10.0	<10.0	<30
9/4/2018	H802495-09	1	18	16.0	<0.050	<0.300	<10.0	<10.0	<30
7/24/2018	H802019-10	2	3	<16.0	<0.050	<0.300	<100	4440	5415
7/24/2018	H802019-11	2	6	<16.0	<0.100	2.62	264	11800	13844
7/24/2018	H802019-12	2	9	<16.0	<0.050	<0.300	<100	6630	7588
7/24/2018	H802019-13	3	3	<16.0	<0.050	<0.300	<10.0	<10.0	<30
7/24/2018	H802019-14	3	6	<16.0	<0.050	<0.300	<10.0	<10.0	<30
7/24/2018	H802019-15	4	3	<16.0	0.322	4.99	<200	29800	37240
7/24/2018	H802019-16	4	6	16.0	0.163	4.99	177	13900	16827
7/24/2018	H802019-17	5	3	<16.0	<0.050	<0.300	<10.0	15.2	15.2
7/24/2018	H802019-18	5	6	<16.0	<0.050	<0.300	<10.0	<10.0	<30
7/24/2018	H802019-19	6	3	<16.0	<0.050	<0.300	<10.0	<10.0	<30
7/24/2018	H802019-20	6	5	<16.0	<0.050	<0.300	<10.0	<10.0	<30
NMOC thresholds				600	10	50	1000		2500

All samples are listed in (mg/kg)

BOLD values represent a result above the thresholds per NMAC 19.15.29.13

APPENDIX B

USGS GROUNDWATER DATA



USGS Home
 Contact USGS
 Search USGS

National Water Information System: Web Interface

USGS 321936103154601 23S.36E.04.42431

Available data for this site

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°19'50", Longitude 103°15'47" NAD27

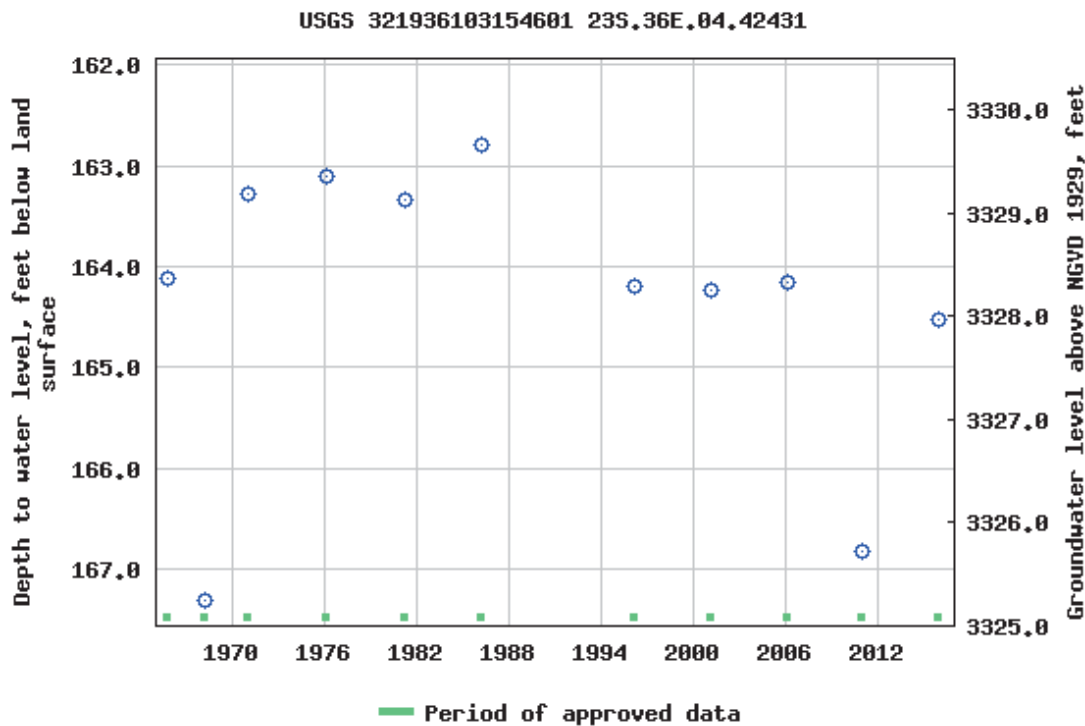
Land-surface elevation 3,492.50 feet above NGVD29

The depth of the well is 206 feet below land surface.

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.

[Download a presentation-quality graph](#)

APPENDIX C

NM OSE WATER COLUMN/AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 00786 POD1		CP	LE	1	3	1	03	23S	36E	663716	3579040*	236	200		
CP 01149 POD1		CP	LE				34	22S	36E	664281	3580034	912	25		
CP 01146 POD3		CP	LE				34	22S	36E	664045	3580932	1719	20		
CP 01146 POD1		CP	LE				34	22S	36E	664065	3580944	1732	101		
CP 01146 POD2		CP	LE				34	22S	36E	664041	3580954	1740	100		
CP 00392 POD1		CP	LE	1	1	3	35	22S	36E	665302	3580296*	1792	225		
CP 00575		CP	LE				3	4	27	22S	36E	664576	3581388*	198	160 38

Average Depth to Water: **160 feet**
 Minimum Depth: **160 feet**
 Maximum Depth: **160 feet**

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 663866.19

Northing (Y): 3579222.42

Radius: 2500

*UTM location was derived from PLSS - see Help

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

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WATER COLUMN/ AVERAGE DEPTH TO WATER

APPENDIX D
RESTORATION PLAN



Restoration Plan

Amendment to the Remediation Plan

Apache Corporation
Sinclair B State #3 Pit
30-025-09248
Lea County, NM



New Mexico State Land Office
2827 N. Dal Paso Suite 117
Hobbs, NM 88240

May 30, 2019

RXSoil, Inc.

This document solely addresses the restoration, reclamation and re-vegetation of the site. A spill background, site characterization and remediation plan are all included in the Work Plan submitted by RXSoil.

After completion of the remedial phase of the project, two composite samples (one from the affected area and one from the background area) will be collected for agricultural analysis. These results will be provided to an agronomist so that proper soil amendments can be determined to provide for the landowner approved vegetative cover. The soil will be recontoured to a safe and stable condition that blends with the surrounding undisturbed area.

RXSoil's remediation of soils will adhere to the soil cover requirements, as no topsoil is being removed and all soils will be treated until all samples test below thresholds.

RXSoil plans to drill blow sand seed mixture into all disturbed areas following remediation. These areas will be carefully monitored following planting for vegetation growth. RXSoil will monitor the site annually and reseed as needed if revegetation is not successful. All parties will be updated on the growth.

RXSoil will treat noxious weeds if they become established within the area of remediation at the recommendation of the Authorized Officer for acceptable weed control methods.

RXSoil will look to the State Land Office to advise of any additional revegetation methods, objectives and seasons to plant.

A closure report will be submitted summarizing all remedial and reclamation efforts completed.

APPENDIX E.1

**DELINEATION LAB REPORT
REPORT ONE**



July 30, 2018

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: SINCLAIR B STATE #3

Enclosed are the results of analyses for samples received by the laboratory on 07/24/18 15:44.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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 blue ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 1' (H802019-01)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2018	ND	1.98	98.9	2.00	2.26	
Toluene*	<0.050	0.050	07/27/2018	ND	1.96	97.9	2.00	2.55	
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.91	95.4	2.00	4.16	
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.90	98.3	6.00	4.45	
Total BTEX	<0.300	0.300	07/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/27/2018	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*	<100	100	07/26/2018	ND	202	101	200	2.71		
DRO >C10-C28*	1720	100	07/26/2018	ND	207	103	200	0.735		
EXT DRO >C28-C36	657	100	07/26/2018	ND						

Surrogate: 1-Chlorooctane 125 % 41-142

Surrogate: 1-Chlorooctadecane 190 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 2' (H802019-02)

BTEX 8021B		mg/kg		Analyzed By: BF				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2018	ND	1.98	98.9	2.00	2.26		
Toluene*	0.127	0.050	07/27/2018	ND	1.96	97.9	2.00	2.55		
Ethylbenzene*	1.40	0.050	07/27/2018	ND	1.91	95.4	2.00	4.16		
Total Xylenes*	1.00	0.150	07/27/2018	ND	5.90	98.3	6.00	4.45		
Total BTEX	2.53	0.300	07/27/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 152 % 69.8-142

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	07/27/2018	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*	162	100	07/26/2018	ND	202	101	200	2.71		
DRO >C10-C28*	10300	100	07/26/2018	ND	207	103	200	0.735		
EXT DRO >C28-C36	2210	100	07/26/2018	ND						

Surrogate: 1-Chlorooctane 129 % 41-142

Surrogate: 1-Chlorooctadecane 507 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 3' (H802019-03)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.48	1.00	07/27/2018	ND	1.98	98.9	2.00	2.26	
Toluene*	<1.00	1.00	07/27/2018	ND	1.96	97.9	2.00	2.55	
Ethylbenzene*	17.2	1.00	07/27/2018	ND	1.91	95.4	2.00	4.16	
Total Xylenes*	30.3	3.00	07/27/2018	ND	5.90	98.3	6.00	4.45	
Total BTEX	49.0	6.00	07/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 69.8-142

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	07/27/2018	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*	2080	200	07/26/2018	ND	202	101	200	2.71		
DRO >C10-C28*	31300	200	07/26/2018	ND	207	103	200	0.735		
EXT DRO >C28-C36	6410	200	07/26/2018	ND						

Surrogate: 1-Chlorooctane 230 % 41-142

Surrogate: 1-Chlorooctadecane 849 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 4' (H802019-04)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	07/27/2018	ND	1.98	98.9	2.00	2.26	
Toluene*	<0.500	0.500	07/27/2018	ND	1.96	97.9	2.00	2.55	
Ethylbenzene*	5.97	0.500	07/27/2018	ND	1.91	95.4	2.00	4.16	
Total Xylenes*	7.68	1.50	07/27/2018	ND	5.90	98.3	6.00	4.45	
Total BTEX	13.7	3.00	07/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 69.8-142

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	07/27/2018	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*	758	200	07/26/2018	ND	202	101	200	2.71		
DRO >C10-C28*	21000	200	07/26/2018	ND	207	103	200	0.735		
EXT DRO >C28-C36	4100	200	07/26/2018	ND						

Surrogate: 1-Chlorooctane 168 % 41-142

Surrogate: 1-Chlorooctadecane 633 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 5' (H802019-05)

BTEX 8021B		mg/kg		Analyzed By: BF				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	0.071	0.050	07/27/2018	ND	1.98	98.9	2.00	2.26		
Toluene*	<0.050	0.050	07/27/2018	ND	1.96	97.9	2.00	2.55		
Ethylbenzene*	2.38	0.050	07/27/2018	ND	1.91	95.4	2.00	4.16		
Total Xylenes*	2.07	0.150	07/27/2018	ND	5.90	98.3	6.00	4.45		
Total BTEX	4.52	0.300	07/27/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 147 % 69.8-142

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	07/27/2018	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*	105	100	07/26/2018	ND	202	101	200	2.71		
DRO >C10-C28*	2040	100	07/26/2018	ND	207	103	200	0.735		
EXT DRO >C28-C36	172	100	07/26/2018	ND						

Surrogate: 1-Chlorooctane 119 % 41-142

Surrogate: 1-Chlorooctadecane 175 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 6' (H802019-06)

BTEX 8021B		mg/kg		Analyzed By: BF				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.059	0.050	07/27/2018	ND	1.98	98.9	2.00	2.26	
Toluene*	0.079	0.050	07/27/2018	ND	1.96	97.9	2.00	2.55	
Ethylbenzene*	1.57	0.050	07/27/2018	ND	1.91	95.4	2.00	4.16	
Total Xylenes*	2.61	0.150	07/27/2018	ND	5.90	98.3	6.00	4.45	
Total BTEX	4.31	0.300	07/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 145 % 69.8-142

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	07/27/2018	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*	94.4	50.0	07/26/2018	ND	202	101	200	2.71	
DRO >C10-C28*	1440	50.0	07/26/2018	ND	207	103	200	0.735	
EXT DRO >C28-C36	103	50.0	07/26/2018	ND					

Surrogate: 1-Chlorooctane 110 % 41-142

Surrogate: 1-Chlorooctadecane 142 % 37.6-147

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Analytical Results For:

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

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 7' (H802019-07)

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<1.00	1.00	07/27/2018	ND	1.98	98.9	2.00	2.26		
Toluene*	<1.00	1.00	07/27/2018	ND	1.96	97.9	2.00	2.55		
Ethylbenzene*	8.49	1.00	07/27/2018	ND	1.91	95.4	2.00	4.16		
Total Xylenes*	12.7	3.00	07/27/2018	ND	5.90	98.3	6.00	4.45		
Total BTEX	21.2	6.00	07/27/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 69.8-142

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	07/27/2018	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*	1230	200	07/26/2018	ND	202	101	200	2.71			
DRO >C10-C28*	28300	200	07/26/2018	ND	207	103	200	0.735			
EXT DRO >C28-C36	5690	200	07/26/2018	ND							

Surrogate: 1-Chlorooctane 198 % 41-142

Surrogate: 1-Chlorooctadecane 890 % 37.6-147

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Analytical Results For:

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

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 8' (H802019-08)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.409	0.200	07/27/2018	ND	1.98	98.9	2.00	2.26	
Toluene*	0.582	0.200	07/27/2018	ND	1.96	97.9	2.00	2.55	
Ethylbenzene*	8.54	0.200	07/27/2018	ND	1.91	95.4	2.00	4.16	
Total Xylenes*	13.0	0.600	07/27/2018	ND	5.90	98.3	6.00	4.45	
Total BTEX	22.5	1.20	07/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 138 % 69.8-142

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	07/27/2018	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*	450	100	07/26/2018	ND	202	101	200	2.71		
DRO >C10-C28*	9140	100	07/26/2018	ND	207	103	200	0.735		
EXT DRO >C28-C36	1530	100	07/26/2018	ND						

Surrogate: 1-Chlorooctane 147 % 41-142

Surrogate: 1-Chlorooctadecane 458 % 37.6-147

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Analytical Results For:

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

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 9' (H802019-09)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.622	0.500	07/27/2018	ND	1.98	98.9	2.00	2.26	
Toluene*	1.04	0.500	07/27/2018	ND	1.96	97.9	2.00	2.55	
Ethylbenzene*	12.9	0.500	07/27/2018	ND	1.91	95.4	2.00	4.16	
Total Xylenes*	32.8	1.50	07/27/2018	ND	5.90	98.3	6.00	4.45	
Total BTEX	47.4	3.00	07/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 129 % 69.8-142

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	07/27/2018	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*	981	100	07/26/2018	ND	202	101	200	2.71		
DRO >C10-C28*	11300	100	07/26/2018	ND	207	103	200	0.735		
EXT DRO >C28-C36	1510	100	07/26/2018	ND						

Surrogate: 1-Chlorooctane 195 % 41-142

Surrogate: 1-Chlorooctadecane 447 % 37.6-147

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Analytical Results For:

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

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 3' (H802019-10)

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2018	ND	1.98	98.9	2.00	2.26		
Toluene*	<0.050	0.050	07/27/2018	ND	1.96	97.9	2.00	2.55		
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.91	95.4	2.00	4.16		
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.90	98.3	6.00	4.45		
Total BTEX	<0.300	0.300	07/27/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 69.8-142

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	07/27/2018	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*	<100	100	07/26/2018	ND	202	101	200	2.71			
DRO >C10-C28*	4440	100	07/26/2018	ND	207	103	200	0.735			
EXT DRO >C28-C36	975	100	07/26/2018	ND							

Surrogate: 1-Chlorooctane 110 % 41-142

Surrogate: 1-Chlorooctadecane 237 % 37.6-147

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Analytical Results For:

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

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 6' (H802019-11)

BTEX 8021B		mg/kg		Analyzed By: BF				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	07/27/2018	ND	1.98	98.9	2.00	2.26	
Toluene*	0.202	0.100	07/27/2018	ND	1.96	97.9	2.00	2.55	
Ethylbenzene*	1.12	0.100	07/27/2018	ND	1.91	95.4	2.00	4.16	
Total Xylenes*	1.29	0.300	07/27/2018	ND	5.90	98.3	6.00	4.45	
Total BTEX	2.62	0.600	07/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 157 % 69.8-142

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	07/27/2018	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*	264	100	07/26/2018	ND	202	101	200	2.71	
DRO >C10-C28*	11800	100	07/26/2018	ND	207	103	200	0.735	
EXT DRO >C28-C36	1780	100	07/26/2018	ND					

Surrogate: 1-Chlorooctane 140 % 41-142

Surrogate: 1-Chlorooctadecane 556 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ 9' (H802019-12)

BTEX 8021B		mg/kg		Analyzed By: BF				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2018	ND	1.98	98.9	2.00	2.26		
Toluene*	<0.050	0.050	07/27/2018	ND	1.96	97.9	2.00	2.55		
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.91	95.4	2.00	4.16		
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.90	98.3	6.00	4.45		
Total BTEX	<0.300	0.300	07/27/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 178 % 69.8-142

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	07/27/2018	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*	<100	100	07/26/2018	ND	202	101	200	2.71		
DRO >C10-C28*	6630	100	07/26/2018	ND	207	103	200	0.735		
EXT DRO >C28-C36	958	100	07/26/2018	ND						

Surrogate: 1-Chlorooctane 115 % 41-142

Surrogate: 1-Chlorooctadecane 319 % 37.6-147

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Analytical Results For:

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

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 3' (H802019-13)

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/28/2018	ND	1.98	98.9	2.00	2.26		
Toluene*	<0.050	0.050	07/28/2018	ND	1.96	97.9	2.00	2.55		
Ethylbenzene*	<0.050	0.050	07/28/2018	ND	1.91	95.4	2.00	4.16		
Total Xylenes*	<0.150	0.150	07/28/2018	ND	5.90	98.3	6.00	4.45		
Total BTEX	<0.300	0.300	07/28/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 69.8-142

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	07/27/2018	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	07/26/2018	ND	202	101	200	2.71		
DRO >C10-C28*	<10.0	10.0	07/26/2018	ND	207	103	200	0.735		
EXT DRO >C28-C36	<10.0	10.0	07/26/2018	ND						

Surrogate: 1-Chlorooctane 114 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 6' (H802019-14)

BTEX 8021B		mg/kg		Analyzed By: BF						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/28/2018	ND	1.98	98.9	2.00	2.26		
Toluene*	<0.050	0.050	07/28/2018	ND	1.96	97.9	2.00	2.55		
Ethylbenzene*	<0.050	0.050	07/28/2018	ND	1.91	95.4	2.00	4.16		
Total Xylenes*	<0.150	0.150	07/28/2018	ND	5.90	98.3	6.00	4.45		
Total BTEX	<0.300	0.300	07/28/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 129 % 69.8-142

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	07/27/2018	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	07/27/2018	ND	202	101	200	2.71		
DRO >C10-C28*	<10.0	10.0	07/27/2018	ND	207	103	200	0.735		
EXT DRO >C28-C36	<10.0	10.0	07/27/2018	ND						

Surrogate: 1-Chlorooctane 99.1 % 41-142

Surrogate: 1-Chlorooctadecane 93.6 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 3' (H802019-15)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.322	0.100	07/28/2018	ND	1.98	98.9	2.00	2.26	
Toluene*	0.177	0.100	07/28/2018	ND	1.96	97.9	2.00	2.55	
Ethylbenzene*	2.40	0.100	07/28/2018	ND	1.91	95.4	2.00	4.16	
Total Xylenes*	2.08	0.300	07/28/2018	ND	5.90	98.3	6.00	4.45	
Total BTEX	4.99	0.600	07/28/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 69.8-142

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	07/27/2018	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*	<200	200	07/27/2018	ND	206	103	200	0.519		
DRO >C10-C28*	29800	200	07/27/2018	ND	216	108	200	2.27		
EXT DRO >C28-C36	7440	200	07/27/2018	ND						

Surrogate: 1-Chlorooctane 123 % 41-142

Surrogate: 1-Chlorooctadecane 1210 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 6' (H802019-16)

BTEX 8021B		mg/kg		Analyzed By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.163	0.100	07/28/2018	ND	1.98	98.9	2.00	2.26	
Toluene*	0.111	0.100	07/28/2018	ND	1.96	97.9	2.00	2.55	
Ethylbenzene*	2.26	0.100	07/28/2018	ND	1.91	95.4	2.00	4.16	
Total Xylenes*	2.45	0.300	07/28/2018	ND	5.90	98.3	6.00	4.45	
Total BTEX	4.99	0.600	07/28/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 131 % 69.8-142

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	07/27/2018	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*	177	100	07/27/2018	ND	206	103	200	0.519		
DRO >C10-C28*	13900	100	07/27/2018	ND	216	108	200	2.27		
EXT DRO >C28-C36	2750	100	07/27/2018	ND						

Surrogate: 1-Chlorooctane 124 % 41-142

Surrogate: 1-Chlorooctadecane 665 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ 3' (H802019-17)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2018	ND	1.89	94.3	2.00	4.46		
Toluene*	<0.050	0.050	07/27/2018	ND	1.95	97.7	2.00	4.17		
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.98	99.2	2.00	4.22		
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.82	97.0	6.00	4.83		
Total BTEX	<0.300	0.300	07/27/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.8-142

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	07/27/2018	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	07/27/2018	ND	206	103	200	0.519		
DRO >C10-C28*	15.2	10.0	07/27/2018	ND	216	108	200	2.27		
EXT DRO >C28-C36	<10.0	10.0	07/27/2018	ND						

Surrogate: 1-Chlorooctane 112 % 41-142

Surrogate: 1-Chlorooctadecane 109 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ 6' (H802019-18)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2018	ND	1.89	94.3	2.00	4.46		
Toluene*	<0.050	0.050	07/27/2018	ND	1.95	97.7	2.00	4.17		
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.98	99.2	2.00	4.22		
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.82	97.0	6.00	4.83		
Total BTEX	<0.300	0.300	07/27/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.8-142

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	07/27/2018	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/27/2018	ND	206	103	200	0.519		
DRO >C10-C28*	<10.0	10.0	07/27/2018	ND	216	108	200	2.27		
EXT DRO >C28-C36	<10.0	10.0	07/27/2018	ND						

Surrogate: 1-Chlorooctane 108 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 6 @ 3' (H802019-19)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2018	ND	1.89	94.3	2.00	4.46		
Toluene*	<0.050	0.050	07/27/2018	ND	1.95	97.7	2.00	4.17		
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.98	99.2	2.00	4.22		
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.82	97.0	6.00	4.83		
Total BTEX	<0.300	0.300	07/27/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.8-142

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	07/27/2018	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/27/2018	ND	206	103	200	0.519		
DRO >C10-C28*	<10.0	10.0	07/27/2018	ND	216	108	200	2.27		
EXT DRO >C28-C36	<10.0	10.0	07/27/2018	ND						

Surrogate: 1-Chlorooctane 108 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/24/2018	Sampling Date:	07/24/2018
Reported:	07/30/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 6 @ 5' (H802019-20)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2018	ND	1.89	94.3	2.00	4.46		
Toluene*	<0.050	0.050	07/27/2018	ND	1.95	97.7	2.00	4.17		
Ethylbenzene*	<0.050	0.050	07/27/2018	ND	1.98	99.2	2.00	4.22		
Total Xylenes*	<0.150	0.150	07/27/2018	ND	5.82	97.0	6.00	4.83		
Total BTEX	<0.300	0.300	07/27/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.8-142

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	07/27/2018	ND	448	112	400	7.41		

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	07/27/2018	ND	206	103	200	0.519		
DRO >C10-C28*	<10.0	10.0	07/27/2018	ND	216	108	200	2.27		
EXT DRO >C28-C36	<10.0	10.0	07/27/2018	ND						

Surrogate: 1-Chlorooctane 109 % 41-142

Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

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.
- 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



Celey D. Keene, Lab Director/Quality Manager



2

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Apache</u>		BILL TO		ANALYSIS REQUEST									
Project Manager: <u>Bruce Baker</u>		P.O. #:											
Address:		Company:											
City: State: Zip:		Attn:											
Phone #: Fax #:		Address:											
Project #: Project Owner:		City:											
Project Name:		State: Zip:											
Project Location: <u>Sinclair B State #3</u>		Phone #:											
Sampler Name: <u>Bruce Baker</u>		Fax #:											

FOR LAB USE ONLY		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING		DATE	TIME	CI	EXT. TPH	BTEX
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:					
<u>H8000A</u>																	
	<u>11 SP 2 @ 6'</u>	<u>G</u>	<u>1</u>			<u>✓</u>	<u>✓</u>			<u>✓</u>	<u>✓</u>	<u>11-24-18</u>	<u>11:40am</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	
	<u>12 SP 2 @ 9'</u>	<u>G</u>	<u>1</u>			<u>✓</u>	<u>✓</u>			<u>✓</u>	<u>✓</u>	<u>11</u>	<u>11:45am</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	
	<u>13 SP 3 @ 3'</u>	<u>G</u>	<u>1</u>			<u>✓</u>	<u>✓</u>			<u>✓</u>	<u>✓</u>	<u>11</u>	<u>12:05pm</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	
	<u>14 SP 3 @ 6'</u>	<u>G</u>	<u>1</u>			<u>✓</u>	<u>✓</u>			<u>✓</u>	<u>✓</u>	<u>11</u>	<u>12:10pm</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	
	<u>15 SP 4 @ 3'</u>	<u>G</u>	<u>1</u>			<u>✓</u>	<u>✓</u>			<u>✓</u>	<u>✓</u>	<u>11</u>	<u>12:20pm</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	
	<u>16 SP 4 @ 6'</u>	<u>G</u>	<u>1</u>			<u>✓</u>	<u>✓</u>			<u>✓</u>	<u>✓</u>	<u>11</u>	<u>12:25pm</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	
	<u>17 SP 5 @ 3'</u>	<u>G</u>	<u>1</u>			<u>✓</u>	<u>✓</u>			<u>✓</u>	<u>✓</u>	<u>11</u>	<u>1:10pm</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	
	<u>18 SP 5 @ 6'</u>	<u>G</u>	<u>1</u>			<u>✓</u>	<u>✓</u>			<u>✓</u>	<u>✓</u>	<u>11</u>	<u>1:15pm</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	
	<u>19 SP 6 @ 3'</u>	<u>G</u>	<u>1</u>			<u>✓</u>	<u>✓</u>			<u>✓</u>	<u>✓</u>	<u>11</u>	<u>1:50pm</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	
	<u>20 SP 6 @ 5'</u>	<u>G</u>	<u>1</u>			<u>✓</u>	<u>✓</u>			<u>✓</u>	<u>✓</u>	<u>11</u>	<u>1:55pm</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	

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Relinquished By: <u>Bruce Baker</u>	Date: <u>11-24-18</u> Time: <u>3:53</u>	Received By: <u>Jamora Oldaker</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) <u>5.95°C</u>	Sample Condition	CHECKED BY: (Initials) <u>TO. #15</u>	REMARKS: <u>Email Results</u>	
Sampler <u>42</u> UPS - Bus - Other: <u>Corrected 5.90°C</u>	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No			

* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

APPENDIX E.2

**DELINEATION LAB REPORT
REPORT TWO**



September 10, 2018

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: SINCLAIR B STATE #3

Enclosed are the results of analyses for samples received by the laboratory on 09/04/18 15:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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 blue ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/04/2018	Sampling Date:	09/04/2018
Reported:	09/10/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 10' (H802495-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	09/05/2018	ND	2.11	106	2.00	0.309	
Toluene*	<0.500	0.500	09/05/2018	ND	2.07	104	2.00	0.461	
Ethylbenzene*	5.35	0.500	09/05/2018	ND	2.04	102	2.00	0.412	
Total Xylenes*	10.8	1.50	09/05/2018	ND	5.84	97.4	6.00	0.0760	
Total BTEX	16.1	3.00	09/05/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.8-142

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	09/05/2018	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*	278	50.0	09/05/2018	ND	201	101	200	2.18		
DRO >C10-C28*	3750	50.0	09/05/2018	ND	198	99.1	200	2.38		
EXT DRO >C28-C36	447	50.0	09/05/2018	ND						

Surrogate: 1-Chlorooctane 126 % 41-142

Surrogate: 1-Chlorooctadecane 219 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/04/2018	Sampling Date:	09/04/2018
Reported:	09/10/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 11' (H802495-02)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.500	0.500	09/05/2018	ND	2.10	105	2.00	3.69		
Toluene*	<0.500	0.500	09/05/2018	ND	1.98	99.1	2.00	3.95		
Ethylbenzene*	1.14	0.500	09/05/2018	ND	1.97	98.7	2.00	3.69		
Total Xylenes*	2.04	1.50	09/05/2018	ND	6.00	100	6.00	3.58		
Total BTEX	3.18	3.00	09/05/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 69.8-142

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	09/05/2018	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*	195	50.0	09/05/2018	ND	201	101	200	2.18			
DRO >C10-C28*	4760	50.0	09/05/2018	ND	198	99.1	200	2.38			
EXT DRO >C28-C36	602	50.0	09/05/2018	ND							

Surrogate: 1-Chlorooctane 142 % 41-142

Surrogate: 1-Chlorooctadecane 286 % 37.6-147

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/04/2018	Sampling Date:	09/04/2018
Reported:	09/10/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 12' (H802495-03)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	09/05/2018	ND	2.10	105	2.00	3.69	
Toluene*	<0.500	0.500	09/05/2018	ND	1.98	99.1	2.00	3.95	
Ethylbenzene*	2.28	0.500	09/05/2018	ND	1.97	98.7	2.00	3.69	
Total Xylenes*	4.93	1.50	09/05/2018	ND	6.00	100	6.00	3.58	
Total BTEX	7.21	3.00	09/05/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.8-142

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	09/05/2018	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*	188	50.0	09/05/2018	ND	201	101	200	2.18		
DRO >C10-C28*	3000	50.0	09/05/2018	ND	198	99.1	200	2.38		
EXT DRO >C28-C36	190	50.0	09/05/2018	ND						

Surrogate: 1-Chlorooctane 132 % 41-142

Surrogate: 1-Chlorooctadecane 214 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/04/2018	Sampling Date:	09/04/2018
Reported:	09/10/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 13' (H802495-04)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/05/2018	ND	2.10	105	2.00	3.69		
Toluene*	<0.050	0.050	09/05/2018	ND	1.98	99.1	2.00	3.95		
Ethylbenzene*	0.293	0.050	09/05/2018	ND	1.97	98.7	2.00	3.69		
Total Xylenes*	0.683	0.150	09/05/2018	ND	6.00	100	6.00	3.58		
Total BTEX	0.976	0.300	09/05/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.8-142

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	09/05/2018	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*	37.0	10.0	09/05/2018	ND	201	101	200	2.18		
DRO >C10-C28*	1080	10.0	09/05/2018	ND	198	99.1	200	2.38		
EXT DRO >C28-C36	139	10.0	09/05/2018	ND						

Surrogate: 1-Chlorooctane 109 % 41-142

Surrogate: 1-Chlorooctadecane 140 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/04/2018	Sampling Date:	09/04/2018
Reported:	09/10/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 14' (H802495-05)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/06/2018	ND	2.10	105	2.00	3.69		
Toluene*	<0.050	0.050	09/06/2018	ND	1.98	99.1	2.00	3.95		
Ethylbenzene*	<0.050	0.050	09/06/2018	ND	1.97	98.7	2.00	3.69		
Total Xylenes*	<0.150	0.150	09/06/2018	ND	6.00	100	6.00	3.58		
Total BTEX	<0.300	0.300	09/06/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/05/2018	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	09/05/2018	ND	201	101	200	2.18		
DRO >C10-C28*	15.4	10.0	09/05/2018	ND	198	99.1	200	2.38		
EXT DRO >C28-C36	<10.0	10.0	09/05/2018	ND						

Surrogate: 1-Chlorooctane 75.1 % 41-142

Surrogate: 1-Chlorooctadecane 72.5 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/04/2018	Sampling Date:	09/04/2018
Reported:	09/10/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 15' (H802495-06)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/06/2018	ND	2.10	105	2.00	3.69		
Toluene*	<0.050	0.050	09/06/2018	ND	1.98	99.1	2.00	3.95		
Ethylbenzene*	<0.050	0.050	09/06/2018	ND	1.97	98.7	2.00	3.69		
Total Xylenes*	<0.150	0.150	09/06/2018	ND	6.00	100	6.00	3.58		
Total BTEX	<0.300	0.300	09/06/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.5 % 69.8-142

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	09/05/2018	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	09/05/2018	ND	201	101	200	2.18		
DRO >C10-C28*	33.7	10.0	09/05/2018	ND	198	99.1	200	2.38		
EXT DRO >C28-C36	<10.0	10.0	09/05/2018	ND						

Surrogate: 1-Chlorooctane 88.8 % 41-142

Surrogate: 1-Chlorooctadecane 85.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/04/2018	Sampling Date:	09/04/2018
Reported:	09/10/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 16' (H802495-07)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/06/2018	ND	1.91	95.5	2.00	1.17		
Toluene*	<0.050	0.050	09/06/2018	ND	1.81	90.4	2.00	1.11		
Ethylbenzene*	<0.050	0.050	09/06/2018	ND	1.80	90.2	2.00	1.10		
Total Xylenes*	<0.150	0.150	09/06/2018	ND	5.49	91.5	6.00	1.17		
Total BTEX	<0.300	0.300	09/06/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 69.8-142

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	09/05/2018	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	09/05/2018	ND	201	101	200	2.18		
DRO >C10-C28*	59.1	10.0	09/05/2018	ND	198	99.1	200	2.38		
EXT DRO >C28-C36	<10.0	10.0	09/05/2018	ND						

Surrogate: 1-Chlorooctane 90.3 % 41-142

Surrogate: 1-Chlorooctadecane 85.8 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/04/2018	Sampling Date:	09/04/2018
Reported:	09/10/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 17' (H802495-08)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2018	ND	1.91	95.5	2.00	1.17	
Toluene*	<0.050	0.050	09/06/2018	ND	1.81	90.4	2.00	1.11	
Ethylbenzene*	<0.050	0.050	09/06/2018	ND	1.80	90.2	2.00	1.10	
Total Xylenes*	<0.150	0.150	09/06/2018	ND	5.49	91.5	6.00	1.17	
Total BTEX	<0.300	0.300	09/06/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 69.8-142

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	09/05/2018	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	09/05/2018	ND	201	101	200	2.18	
DRO >C10-C28*	<10.0	10.0	09/05/2018	ND	198	99.1	200	2.38	
EXT DRO >C28-C36	<10.0	10.0	09/05/2018	ND					

Surrogate: 1-Chlorooctane 96.5 % 41-142

Surrogate: 1-Chlorooctadecane 88.6 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/04/2018	Sampling Date:	09/04/2018
Reported:	09/10/2018	Sampling Type:	Soil
Project Name:	SINCLAIR B STATE #3	Sampling Condition:	Cool & Intact
Project Number:	BATTERY	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 18' (H802495-09)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/06/2018	ND	1.91	95.5	2.00	1.17		
Toluene*	<0.050	0.050	09/06/2018	ND	1.81	90.4	2.00	1.11		
Ethylbenzene*	<0.050	0.050	09/06/2018	ND	1.80	90.2	2.00	1.10		
Total Xylenes*	<0.150	0.150	09/06/2018	ND	5.49	91.5	6.00	1.17		
Total BTEX	<0.300	0.300	09/06/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 69.8-142

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	09/05/2018	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	09/05/2018	ND	201	101	200	2.18		
DRO >C10-C28*	<10.0	10.0	09/05/2018	ND	198	99.1	200	2.38		
EXT DRO >C28-C36	<10.0	10.0	09/05/2018	ND						

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 99.3 % 37.6-147

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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



Celey D. Keene, Lab Director/Quality Manager

APPENDIX F

US FISH AND WILDLIFE WETLAND IDENTIFICATION



May 29, 2019

Wetlands

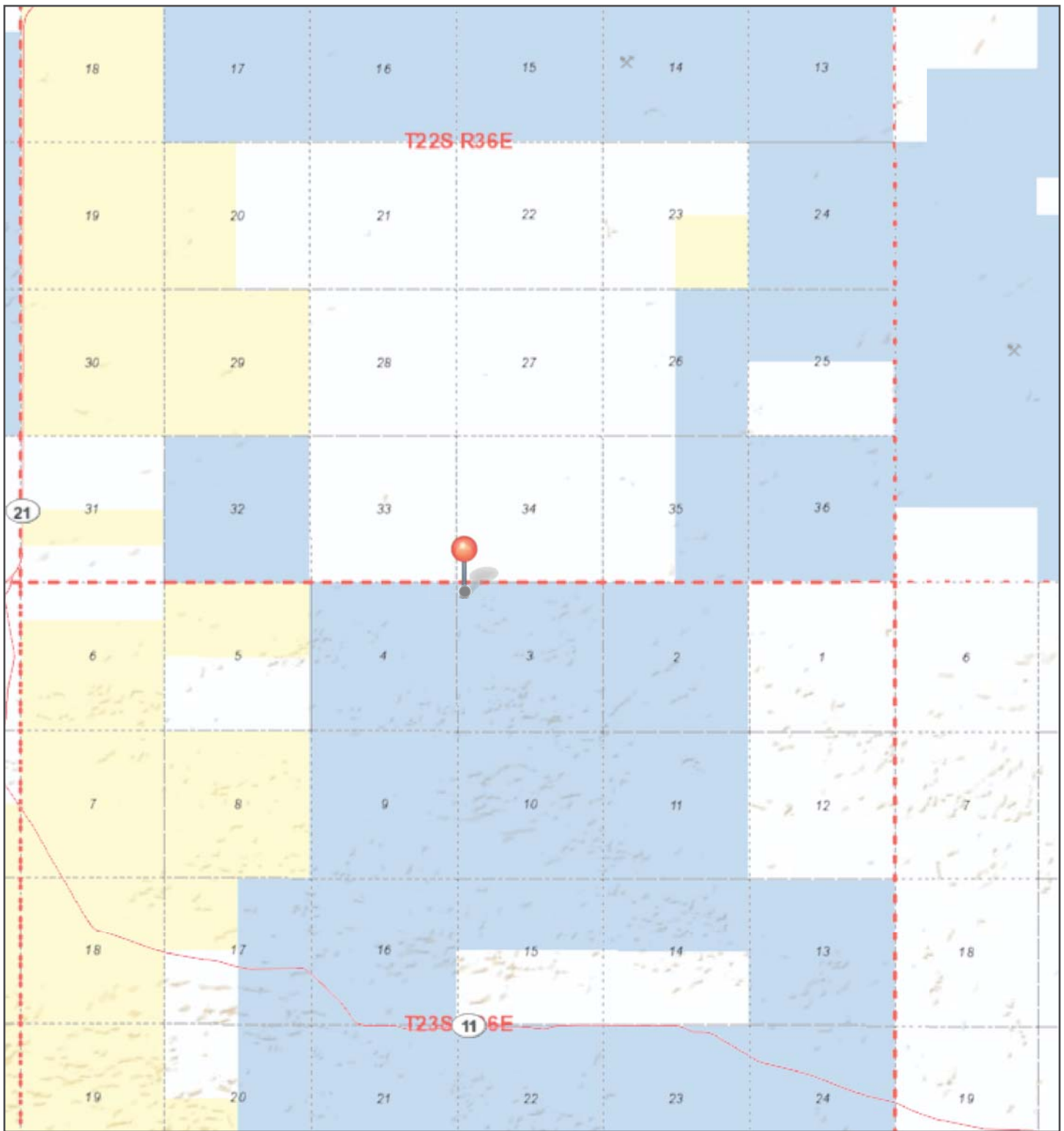
- Estuarine and Marine Deepwater
- Freshwater Emergent Wetland
- Lake
- Estuarine and Marine Wetland
- Freshwater Forested/Shrub Wetland
- Other
- Freshwater Pond
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

APPENDIX G

NM EMNRD-MINING AND MINERAL DIVISION – ACTIVE MINE MAP

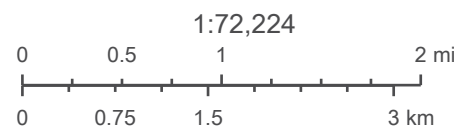
Active Mines in New Mexico



5/29/2019, 6:04:49 PM

Registered Mines

⌘ Aggregate, Stone etc.

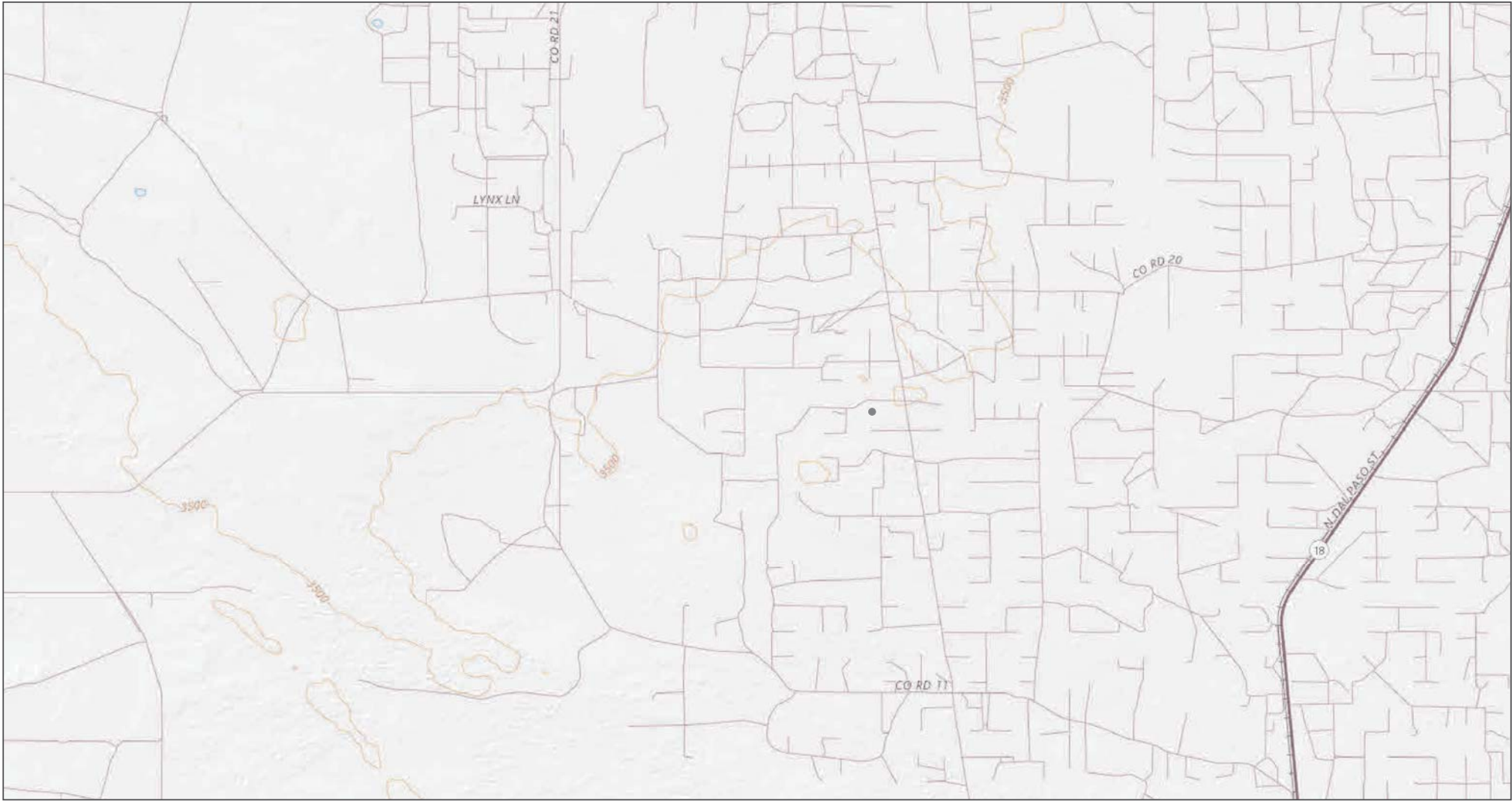


U.S. Bureau of Land Management - New Mexico State Office, Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

APPENDIX H

NM BUREAU OF GEOLOGY & MINERAL RESOURCES – MAP

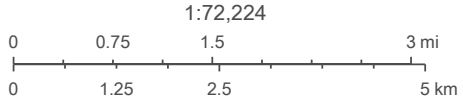
NMBGMR Map



5/30/2019, 10:27:37 AM

- Quaternary Faults
- 2 = Post-glacial (<15,000 years), fault landforms are more continuous than discontinuous and mapping is accurate
 - - - 2 = Post-glacial (<15,000 years), fault landforms are more discontinuous than continuous and mapping is accurate
 - ⋯ 2 = Post-glacial (<15,000 years), location of fault is inferred, buried
 - 3 = Late Quaternary (<130,000 years), fault landforms are more continuous than discontinuous and mapping is accurate
 - - - 3 = Late Quaternary (<130,000 years), fault landforms are more discontinuous than continuous and mapping is accurate

⋯ 3 = Late Quaternary (<130,000 years), location of fault is inferred, buried



USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS

Web AppBuilder for ArcGIS

USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line

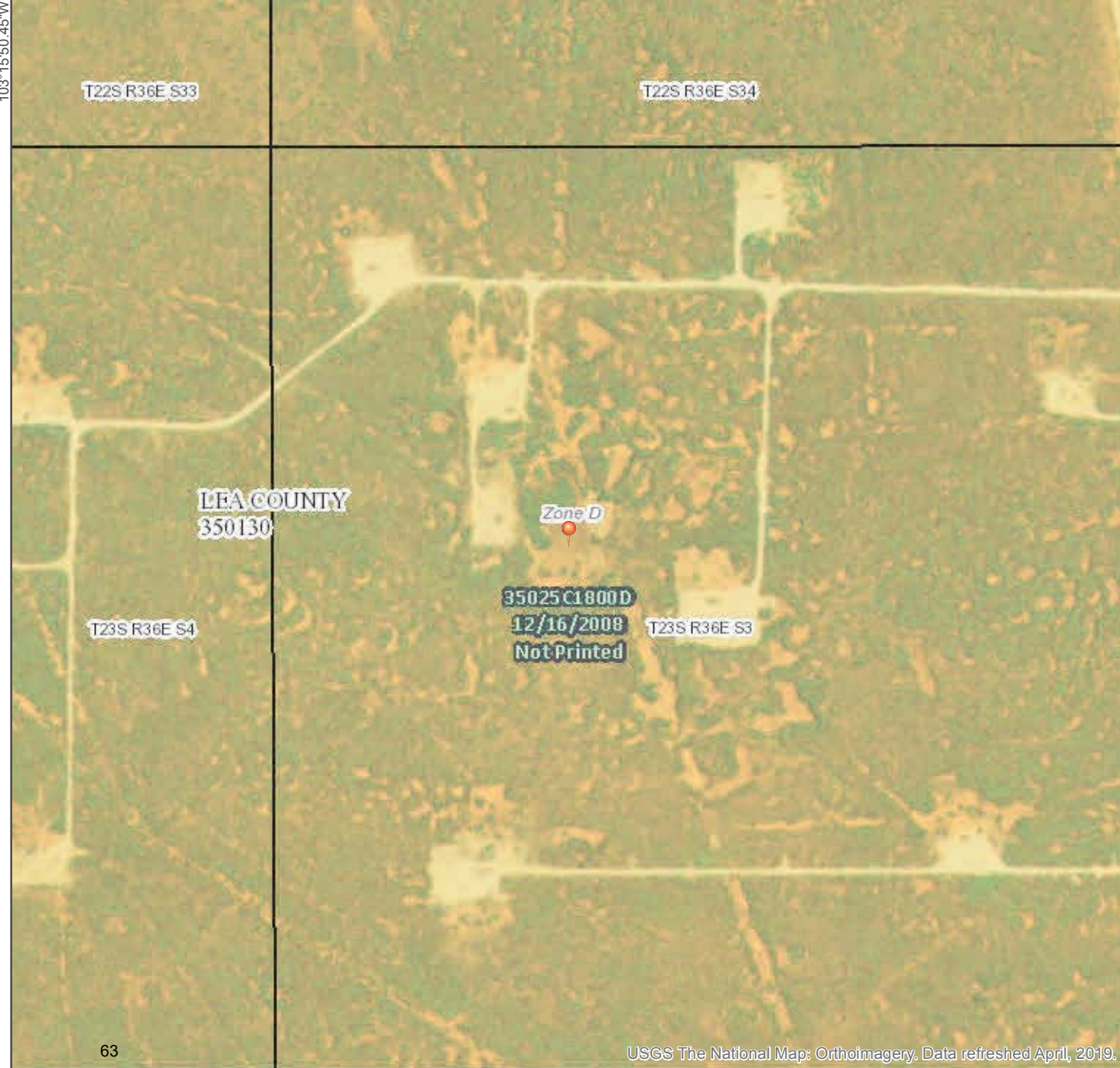
APPENDIX I

FEMA MAP

National Flood Hazard Layer FIRMette



32°20'32.02"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS	Without Base Flood Elevation (BFE) Zone A, V, A99	With BFE or Depth Zone AE, AO, AH, VE, AR
	Regulatory Floodway	

OTHER AREAS OF FLOOD HAZARD	
	0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
	Future Conditions 1% Annual Chance Flood Hazard Zone X
	Area with Reduced Flood Risk due to Levee. See Notes. Zone X
	Area with Flood Risk due to Levee Zone D

OTHER AREAS	
	NO SCREEN Area of Minimal Flood Hazard Zone X
	Effective LOMRs
	Area of Undetermined Flood Hazard Zone D

GENERAL STRUCTURES	
	Channel, Culvert, or Storm Sewer
	Levee, Dike, or Floodwall

OTHER FEATURES	
	Cross Sections with 1% Annual Chance Water Surface Elevation
	Coastal Transect
	Base Flood Elevation Line (BFE)
	Limit of Study
	Jurisdiction Boundary
	Coastal Transect Baseline
	Profile Baseline
	Hydrographic Feature

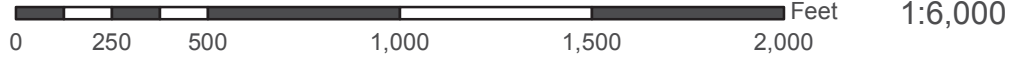
MAP PANELS	
	Digital Data Available
	No Digital Data Available
	Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **5/29/2019 at 7:12:29 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



USGS The National Map: Orthoimagery. Data refreshed April, 2019.

32°20'1.62"N

103°15'12.99"W



END OF REPORT