



July 30, 2021

Mr. Bradford Billings
State of New Mexico Oil Conservation Division
1220 South St Francis Drive
Santa Fe, NM 87505

RE: 2RP-4115 NB Tween Battery

Mr. Billings,

In compliance with 19.15.29.15(B) NMAC and the agreement submitted by Apache Corporation on November 8, 2018, Apache Corporation is submitting information related to closure for the release occurring February 8, 2017. Apache is respectfully submitting the deferment request based on remediation and studies occurring in 2021.

If there are any questions, please feel free to contact me by telephone at 432-631-6982 or by e-mail at larry.baker@apachecorp.com

Sincerely,

A handwritten signature in black ink that reads "Larry Baker". The signature is written in a cursive, flowing style.

Larry Baker
Environmental Technician SR.
Apache Corporation

Attachment: Closure Report Dated July 30, 2021.



303 Veterans Airpark Lane Midland, TX 79705

Deferment Request

July 30, 2021

Re: NBTWEEN Battery
Case # 2RP-4115

On 2/8/2017 a release occurred due to the manway gasket on the oil storage tank failed. The release (GPS: 32.8076553, -104.1247177) is east of Artesia, New Mexico in unit letter H section 25 township 17S range 28E. A remediation plan was submitted and approved by OCD with stipulations on 8/18/2017. One of the stipulations OCD determined water to be 51-100 feet.

In November 2018 the release area was excavated in accordance with the remediation plan. All excavated soil was hauled to an OCD approved facility. The area around SP 6 was excavated to a depth of 3 feet. Laboratory analysis were above table one standards for TPH on the bottom and the north wall. All excavated soil was hauled to an OCD approved disposal facility. The pad area excavation at SP1, 2, 3, and 4 were backfilled with clean imported caliche to ground surface and the pad restored.

In June 2021 upon review of the data it was determined that bottom confirmation samples were not obtain for SP 1-4 which was a OCD stipulation. Utilizing a hand auger those excavated area were sampled at the appropriate depth stipulated in the remediation plan. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. The 3 feet excavation at SP 6 was excavated to a depth of 4 foot. All excavated material was hauled to an OCD approved disposal facility. On 6/21/2021 5 point bottom composite samples were collected not exceeding 200 square feet and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. On the north wall (SP 6 W1) a 5 point wall composite sample was collected not exceeding 200 square feet and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. 5 point bottom and wall samples were collected not to exceed 200 square feet from the 1 foot excavation around SP 5 and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX.

On 6/22/2021 a liner inspection was conducted and the integrity was compromised in the area of SP 7 noted in the remediation plan. A surface sample (L1) in the area of compromised was collected and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. On 7/13/20201 a one foot sample (SP7) was collected and submitted to a commercial laboratory for analysis of TPH, and BTEX. The liner was repaired.

On 6/29/2021 two verticals (SP 7 and SP 8) in the four foot excavation at SP 6 to a depth of 8 feet. All samples collected were submitted to a commercial laboratory for analysis of TPH and BTEX. The 4 foot excavation and 1 foot excavation were backfilled with clean imported to ground surface and the pad restored.

Apache Corporation respectfully request that the battery area at SP 5 and SP 7 be deferred until system abandonment.

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

Submitted by;

Bruce Baker

Environmental Technician SR.

larry.baker@apachecorp.com

Cell# 432-631-6982

Page 4 of 91
Received by OGD: 7/30/2021 1:32:20 PM
Released to Imaging: 3/17/2023 11:46:14 AM

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

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Apache Corporation	Contact Bruce Baker	
Address: 2350 W Marland Blvd Hobbs, NM 88240	Telephone No. (432) 631-6982	
Facility Name NB Tween Battery	Facility Type: Battery	
Surface Owner State	Mineral Owner	API No. 30-015-35915

LOCATION OF RELEASE

Unit Letter H	Section 25	Township 17S	Range 28E	Feet from the 2310'	North/South Line FNL	Feet from the 990	East/West Line FEL	County Eddy
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Latitude N32.8076553 Longitude W104.1247177

NATURE OF RELEASE

Type of Release: Oil	Volume of Release 40 barrels of oil	Volume Recovered 35 barrels of oil
Source of Release: Oil Tank	Date and Hour of Occurrence 2/8/2017	Date and Hour of Discovery 2/8/2017
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher and Crystal Weaver via email	
By Whom? Bruce Baker	Date and Hour 2/9/2017	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* The manway gasket on the oil storage tank failed resulting in the loss of oil.		
Describe Area Affected and Cleanup Action Taken.* The entire release was contained to the berm facility and lease pad. A vacuum truck was dispatched to pick-up standing fluid.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.		

Signature: <u>Bruce Baker</u>		<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Bruce Baker		Approved by Environmental Specialist:	
Title: Environmental Technician		Approval Date:	Expiration Date:
E-mail Address: larry.baker@apachecorp.com		Conditions of Approval:	Attached <input type="checkbox"/>
Date: 2/13/2017 Phone: (432) 631-6982			

Attach Additional Sheets If Necessary

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: 7/30/2021
email: larry.baker@apachecorp.com Telephone: 432-631-6982

OCD Only

Received by: OCD Date: 7/30/2021

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

Signature: Ashley Maxwell Date: 3/17/2023

RE: Apache Corp. - NB Tween Battery (NB Tween St 1) * **2RP-4115** * DOR: 2/8/17

Bruce,

Your proposal for remediation of the above referenced release is approved with the following:

- OSE data shows a water well drilled 9/30/15 in 14-17s-28e, with a depth to groundwater at 58'. Based on this data, depth to groundwater at the NB Tween site could be less than 100'. This changes the site ranking to 10, adjusting the TPH RRAL to 1000 mg/kg. It doesn't look like this site ranking will have a large impact on the proposal, but will make some difference. OCD will consider other data you may have available to reflect ground water at greater than 100', or you may elect to install a soil boring to disprove the data.
- S-1 will require a confirmation sample (the 1' interval shows TPH at less than 1000 mg/kg)
- S-2 will require a confirmation sample (the 1' interval shows TPH at less than 1000 mg/kg)
- S-3 will require a slightly deeper excavation than proposed with a confirmation sample (the 1' interval shows TPH at less than 1000 mg/kg)
- S-4 is slightly over RRAL and will require a surface scrape. No confirmation sample required.
- S-5 will have to be deferred if excavation/delineation is not achievable.
- S-6 will require excavation through the 2' interval (to 3') with a confirmation sample (the 3' interval shows TPH to be less than 1000 mg/kg)
- S-7 will require removal of impacted material on top of the liner, and an inspection made on the liner to verify integrity, and dimension (liner is present and intact under entire spill path)

If this is a lined battery, impacted material in the battery is to be removed and the liner inspected for integrity. If not, OCD may request some samples be obtained in the battery area. Please advise as to the status of the battery in regard to being lined/unlined.

Please advise once remedial activities have been scheduled.

If you have any questions or concerns, please contact me.

Mike Bratcher
NMOCD District 2
811 South First Street
Artesia, NM 88210
575~748~1283 Ext 108

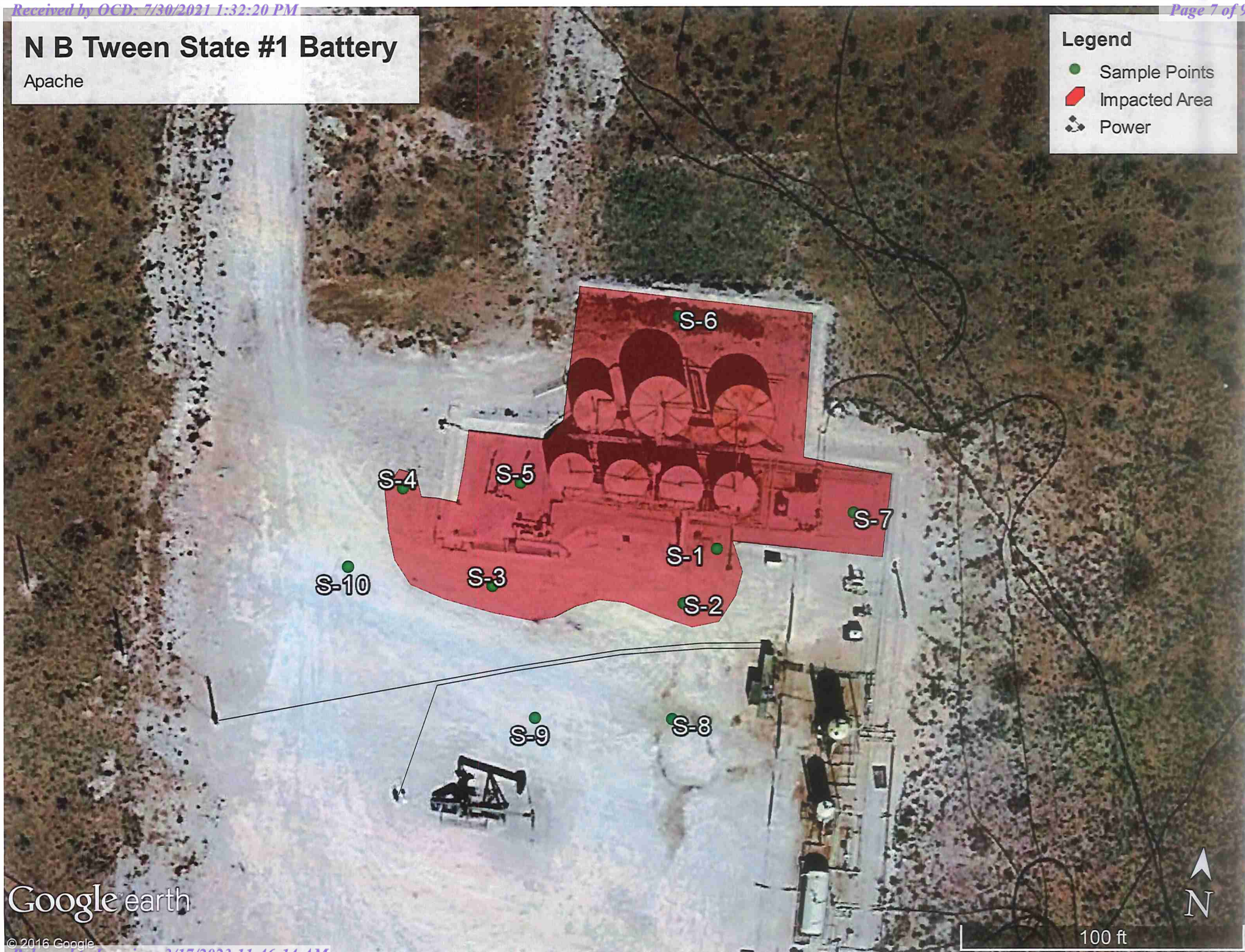
OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

N B Tween State #1 Battery

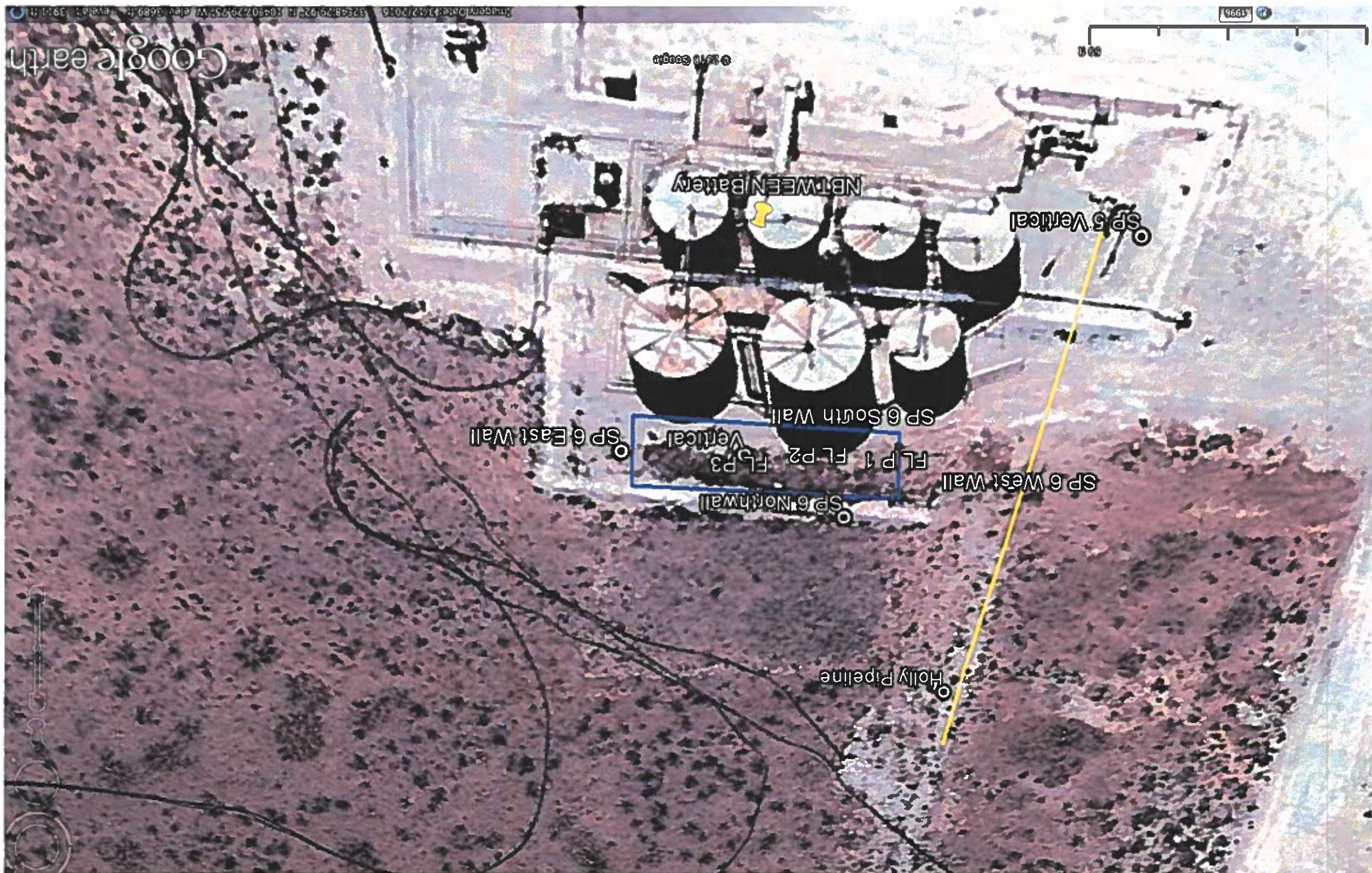
Apache

Legend

- Sample Points
- Impacted Area
- ⚡ Power



Google earth



NBTWEEN Battery

SP 5									
Depth	Benzene	Toluene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	Sample Date
Surface	<0.025	<0.025	<0.025	<0.075	<0.150	<50.0	5060	1350	11/13/2018
1'	0.095	0.452	0.118	0.874	1.54	131	519	76.8	11/13/2018
2'	<0.025	0.301	0.153	1	1.48	272	905	115	11/13/2018
3'	0.55	12.5	6.19	46.5	65.7	368	1220	131	11/13/2018
4'	0.169	2.22	0.709	5.72	8.83	92.7	348	34	11/13/2018
5'	0.214	2.59	0.935	6.88	10.6	27.3	46.6	<10.0	11/13/2018
6'	0.047	0.602	0.221	1.7	2.57	12.4	14	<10.0	11/13/2018
7'	<0.025	0.041	0.029	0.237	0.311	<10.0	<10.0	<10.0	11/13/2018
8'	<0.025	0.093	0.066	0.501	0.667	<10.0	27.6	<10.0	11/13/2018
SP 6 wall samples									
Composite	Benzene	Toluene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	Sample Date
North Wall	<0.100	5.89	8.58	16.5	31	339	1450	216	11/14/2018
North Wall	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	11/29/2018
South Wall	<0.100	1.54	5.66	16.7	23.9	163	968	183	11/14/2018
West Wall	<0.050	<0.050	0.075	0.174	<0.300	<10.0	649	171	11/14/2018
East Wall	<0.50	<0.050	<0.050	<0.150	<0.300	<10.0	398	91.6	11/14/2018
SP 6 Bottom Samples @ 3 feet									
Composite	Benzene	Toluene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	Sample Date
FP 1	0.253	11.7	15	25	52	572	2740	363	11/14/2018
FP 2	0.392	20.3	23.9	42.6	87.1	816	3400	464	11/14/2018
FP 3	0.130	8.08	7.67	19.8	35.7	343	1690	295	11/14/2018
SP 6 vertical									
Depth	Benzene	Toluene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	Sample Date
4'	<0.500	24.8	8.43	41.1	74.3	1050	4860	726	11/29/2018
5'	<0.050	0.066	<0.050	<0.150	<0.300	<10.0	50.2	11.9	11/29/2018
6'	0.632	26.8	22.7	38.5	88.6	726	2190	315	11/29/2018
7'	<0.050	1.39	2.21	3.77	7.36	109	876	143	11/29/2018
8'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	43.7	<10.0	11/29/2018



Google Earth

2021 Delineation Samples

Sample Date	Sample ID	Depth	Chloride Lab	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO
6/21/2021	SP 6 W1	0-4'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	24.5	<10.0
6/21/2021	SP 6 B1	4'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/21/2021	SP 6 B2	4'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	64.4	<10.0
6/21/2021	SP 6 B3	4'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	71.8	<10.0
6/21/2021	SP 6 B4	4'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	30.1	<10.0
6/21/2021	SP 6 B5	4'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/21/2021	SP 6 B6	4'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	81.9	11.5
6/21/2021	SP 5 W2	0-1'	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	75.7	<10.0
6/21/2021	SP 5 B7	1'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	10.2	<10.0
6/21/2021	SP 5 B7	1'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/21/2021	SP 1	1'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/21/2021	SP 2	1'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/21/2021	SP 3	1'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/21/2021		2'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/21/2021	SP 4	6"	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/29/2021	SP 7	5'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/29/2021		6'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/29/2021		7'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/29/2021		8'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/29/2021	SP 8	5'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	50.6	28.7
6/29/2021		6'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/29/2021		7'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/29/2021		8'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0
6/22/2021	L1	Surface	464	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1320	504
7/13/2021	SP 7	1'		<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	361	133

Apache NBTUlen Battery

W1 @4'	32.8081197	-104.1244493
B1 @4'	32.8081107	-104.1244664
B2 @4'	32.8081154	-104.1245080
B3 @4'	32.8081245	-104.1245331
B4 @4'	32.8081282	-104.1245814
B5 @4'	32.8081141	-104.1246143
B6 @4'	32.8081197	-104.1246555
W2 @1'	32.8079941	-104.1248188
B7 @1'	32.8079735	-104.1247906
B8 @1'	32.8079276	-104.1247980



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

November 20, 2018

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NBTWEEN

Enclosed are the results of analyses for samples received by the laboratory on 11/13/18 17:05.

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 black ink, appearing to read "Mike Snyder". The signature is fluid and cursive, with a long horizontal stroke at the end.

Mike Snyder For 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: 11/13/2018
 Reported: 11/20/2018
 Project Name: NBTWEEN
 Project Number: STATE BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 11/13/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: VP 5 SURFACE (H803304-01)

BTEX 8260B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/16/2018	ND	2.14	107	2.00	10.1	
Toluene*	<0.025	0.025	11/16/2018	ND	2.39	119	2.00	10.2	
Ethylbenzene*	<0.025	0.025	11/16/2018	ND	2.25	113	2.00	9.26	
Total Xylenes*	<0.075	0.075	11/16/2018	ND	7.35	122	6.00	10.2	
Total BTEX	<0.150	0.150	11/16/2018	ND					

Surrogate: Dibromofluoromethane 98.6 % 90.4-111

Surrogate: Toluene-d8 104 % 85.3-114

Surrogate: 4-Bromofluorobenzene 95.6 % 80.1-121

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	11/15/2018	ND	217	108	200	9.14		
DRO >C10-C28*	5060	50.0	11/15/2018	ND	220	110	200	7.10		
EXT DRO >C28-C36	1350	50.0	11/15/2018	ND						

Surrogate: 1-Chlorooctane 90.2 % 41-142

Surrogate: 1-Chlorooctadecane 297 % 37.6-147

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.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/13/2018
 Reported: 11/20/2018
 Project Name: NBTWEEN
 Project Number: STATE BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 11/13/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: VP 5 1' (H803304-02)

BTEX 8260B	mg/kg	Analyzed By: ms				S-04			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.095	0.025	11/16/2018	ND	2.14	107	2.00	10.1	
Toluene*	0.452	0.025	11/16/2018	ND	2.39	119	2.00	10.2	
Ethylbenzene*	0.118	0.025	11/16/2018	ND	2.25	113	2.00	9.26	
Total Xylenes*	0.874	0.075	11/16/2018	ND	7.35	122	6.00	10.2	
Total BTEX	1.54	0.150	11/16/2018	ND					

Surrogate: Dibromofluoromethane 99.3 % 90.4-111
 Surrogate: Toluene-d8 237 % 85.3-114
 Surrogate: 4-Bromofluorobenzene 808 % 80.1-121

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	131	10.0	11/15/2018	ND	217	108	200	9.14	
DRO >C10-C28*	519	10.0	11/15/2018	ND	220	110	200	7.10	
EXT DRO >C28-C36	76.8	10.0	11/15/2018	ND					

Surrogate: 1-Chlorooctane 111 % 41-142
 Surrogate: 1-Chlorooctadecane 115 % 37.6-147

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.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/13/2018
 Reported: 11/20/2018
 Project Name: NBTWEEN
 Project Number: STATE BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 11/13/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: VP 5 2' (H803304-03)

BTEX 8260B	mg/kg	Analyzed By: ms				S-04			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/16/2018	ND	2.14	107	2.00	10.1	
Toluene*	0.301	0.025	11/16/2018	ND	2.39	119	2.00	10.2	
Ethylbenzene*	0.153	0.025	11/16/2018	ND	2.25	113	2.00	9.26	
Total Xylenes*	1.00	0.075	11/16/2018	ND	7.35	122	6.00	10.2	
Total BTEX	1.48	0.150	11/16/2018	ND					

Surrogate: Dibromofluoromethane 101 % 90.4-111
 Surrogate: Toluene-d8 259 % 85.3-114
 Surrogate: 4-Bromofluorobenzene 792 % 80.1-121

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	272	10.0	11/15/2018	ND	217	108	200	9.14	
DRO >C10-C28*	905	10.0	11/15/2018	ND	220	110	200	7.10	
EXT DRO >C28-C36	115	10.0	11/15/2018	ND					

Surrogate: 1-Chlorooctane 118 % 41-142
 Surrogate: 1-Chlorooctadecane 126 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For 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: 11/13/2018
 Reported: 11/20/2018
 Project Name: NBTWEEN
 Project Number: STATE BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 11/13/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: VP 5 3' (H803304-04)

BTEX 8260B	mg/kg	Analyzed By: ms				S-04			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.550	0.250	11/16/2018	ND	2.14	107	2.00	10.1	
Toluene*	12.5	0.250	11/16/2018	ND	2.39	119	2.00	10.2	
Ethylbenzene*	6.19	0.250	11/16/2018	ND	2.25	113	2.00	9.26	
Total Xylenes*	46.5	0.750	11/16/2018	ND	7.35	122	6.00	10.2	
Total BTEX	65.7	1.50	11/16/2018	ND					

Surrogate: Dibromofluoromethane 97.3 % 90.4-111
 Surrogate: Toluene-d8 123 % 85.3-114
 Surrogate: 4-Bromofluorobenzene 169 % 80.1-121

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	368	10.0	11/15/2018	ND	217	108	200	9.14	
DRO >C10-C28*	1220	10.0	11/15/2018	ND	220	110	200	7.10	
EXT DRO >C28-C36	131	10.0	11/15/2018	ND					

Surrogate: 1-Chlorooctane 128 % 41-142
 Surrogate: 1-Chlorooctadecane 138 % 37.6-147

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Mike Snyder For 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: 11/13/2018
 Reported: 11/20/2018
 Project Name: NBTWEEN
 Project Number: STATE BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 11/13/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: VP 5 4' (H803304-05)

BTEX 82608	mg/kg	Analyzed By: ms					S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.169	0.025	11/16/2018	ND	2.14	107	2.00	10.1	
Toluene*	2.22	0.025	11/16/2018	ND	2.39	119	2.00	10.2	
Ethylbenzene*	0.709	0.025	11/16/2018	ND	2.25	113	2.00	9.26	
Total Xylenes*	5.72	0.075	11/16/2018	ND	7.35	122	6.00	10.2	
Total BTEX	8.83	0.150	11/16/2018	ND					

Surrogate: Dibromofluoromethane 98.1 % 90.4-111
 Surrogate: Toluene-d8 148 % 85.3-114
 Surrogate: 4-Bromofluorobenzene 320 % 80.1-121

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	92.7	10.0	11/14/2018	ND	199	99.5	200	1.52	
DRO >C10-C28*	348	10.0	11/14/2018	ND	208	104	200	1.23	
EXT DRO >C28-C36	34.0	10.0	11/14/2018	ND					

Surrogate: 1-Chlorooctane 111 % 41-142
 Surrogate: 1-Chlorooctadecane 110 % 37.6-147

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Mike Snyder For 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: 11/13/2018
 Reported: 11/20/2018
 Project Name: NBTWEEN
 Project Number: STATE BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 11/13/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: VP 5 5' (H803304-06)

BTEX 8260B	mg/kg	Analyzed By: ms				S-04			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.214	0.050	11/16/2018	ND	2.14	107	2.00	10.1	
Toluene*	2.59	0.050	11/16/2018	ND	2.39	119	2.00	10.2	
Ethylbenzene*	0.935	0.050	11/16/2018	ND	2.25	113	2.00	9.26	
Total Xylenes*	6.88	0.150	11/16/2018	ND	7.35	122	6.00	10.2	
Total BTEX	10.6	0.300	11/16/2018	ND					

Surrogate: Dibromofluoromethane 96.7 % 90.4-111
 Surrogate: Toluene-d8 129 % 85.3-114
 Surrogate: 4-Bromofluorobenzene 204 % 80.1-121

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	27.3	10.0	11/14/2018	ND	199	99.5	200	1.52	
DRO >C10-C28*	46.6	10.0	11/14/2018	ND	208	104	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	11/14/2018	ND					

Surrogate: 1-Chlorooctane 107 % 41-142
 Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Mike Snyder For 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: 11/13/2018
 Reported: 11/20/2018
 Project Name: NBTWEEN
 Project Number: STATE BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 11/13/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: VP 5 6' (H803304-07)

BTEX 8260B	mg/kg	Analyzed By: ms				S-04			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.047	0.025	11/16/2018	ND	2.14	107	2.00	10.1	
Toluene*	0.602	0.025	11/16/2018	ND	2.39	119	2.00	10.2	
Ethylbenzene*	0.221	0.025	11/16/2018	ND	2.25	113	2.00	9.26	
Total Xylenes*	1.70	0.075	11/16/2018	ND	7.35	122	6.00	10.2	
Total BTEX	2.57	0.150	11/16/2018	ND					

Surrogate: Dibromofluoromethane 98.2 % 90.4-111
 Surrogate: Toluene-d8 125 % 85.3-114
 Surrogate: 4-Bromofluorobenzene 184 % 80.1-121

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	12.4	10.0	11/14/2018	ND	199	99.5	200	1.52	
DRO >C10-C28*	14.0	10.0	11/14/2018	ND	208	104	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	11/14/2018	ND					

Surrogate: 1-Chlorooctane 99.2 % 41-142
 Surrogate: 1-Chlorooctadecane 98.9 % 37.6-147

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Mike Snyder For 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: 11/13/2018
 Reported: 11/20/2018
 Project Name: NBTWEEN
 Project Number: STATE BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 11/13/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: VP 5 7' (H803304-08)

BTEX 8260B	mg/kg	Analyzed By: ms					S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/16/2018	ND	2.14	107	2.00	10.1	
Toluene*	0.041	0.025	11/16/2018	ND	2.39	119	2.00	10.2	
Ethylbenzene*	0.029	0.025	11/16/2018	ND	2.25	113	2.00	9.26	
Total Xylenes*	0.237	0.075	11/16/2018	ND	7.35	122	6.00	10.2	
Total BTEX	0.311	0.150	11/16/2018	ND					

Surrogate: Dibromofluoromethane 95.4 % 90.4-111
 Surrogate: Toluene-d8 106 % 85.3-114
 Surrogate: 4-Bromofluorobenzene 122 % 80.1-121

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	11/14/2018	ND	199	99.5	200	1.52	
DRO >C10-C28*	<10.0	10.0	11/14/2018	ND	208	104	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	11/14/2018	ND					

Surrogate: 1-Chlorooctane 106 % 41-142
 Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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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: 11/13/2018
 Reported: 11/20/2018
 Project Name: NBTWEEN
 Project Number: STATE BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 11/13/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: VP 5 8' (H803304-09)

BTEX 8260B	mg/kg	Analyzed By: ms					S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	11/16/2018	ND	2.14	107	2.00	10.1	
Toluene*	0.093	0.025	11/16/2018	ND	2.39	119	2.00	10.2	
Ethylbenzene*	0.066	0.025	11/16/2018	ND	2.25	113	2.00	9.26	
Total Xylenes*	0.501	0.075	11/16/2018	ND	7.35	122	6.00	10.2	
Total BTEX	0.667	0.150	11/16/2018	ND					

Surrogate: Dibromofluoromethane 98.3 % 90.4-111
 Surrogate: Toluene-d8 109 % 85.3-114
 Surrogate: 4-Bromofluorobenzene 129 % 80.1-121

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	11/14/2018	ND	199	99.5	200	1.52	
DRO >C10-C28*	27.6	10.0	11/14/2018	ND	208	104	200	1.23	
EXT DRO >C28-C36	<10.0	10.0	11/14/2018	ND					

Surrogate: 1-Chlorooctane 106 % 41-142
 Surrogate: 1-Chlorooctadecane 103 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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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-8 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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Mike Snyder For 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: <u>APACHE</u>		P.O. #:	BILL TO										
Project Manager: <u>BOBBE BAKER</u>		Company:											
Address:		Attn:											
City: <u>Vicksburg</u>	State: <u>MS</u> zip: <u>39184</u>	Address:											
Phone #:	Fax #:	City:	State:	Zip:									
Project #:		Project Owner:											
Project Location: <u>NB Tunney State Battery</u>		Sample Name: <u>Joe Quattrone</u>	Phone #:										
FOR LAB USE ONLY		Fax #:											
Lab I.D.	Sample I.D.	(G)RABOR (C)OMP. # CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	EXT TRM BTX
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
#80334		(G)									11-13-18	3:44pm	/
1 VPS 2' 1'		C	/								11-13-18	8:30pm	/
2 VPS 1'		C	/								11-13-18	8:34pm	/
3 VPS 2'		C	/								11-13-18	8:39pm	/
4 VPS 3'		C	/								11-13-18	8:42pm	/
5 VPS 4'		C	/								11-13-18	8:46pm	/
6 VPS 5'		C	/								11-13-18	8:51pm	/
7 VPS 6'		C	/								11-13-18	8:57pm	/
8 VPS 7'		C	/								11-13-18	9:02pm	/
9 VPS 8'		C	/								11-13-18	9:07pm	/

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Relinquished By: <u>[Signature]</u>	Date: <u>11-13-18</u>	Received By: <u>[Signature]</u>	Date: <u>11-13-18</u>
Relinquished By: <u>[Signature]</u>	Date: <u>11-13-18</u>	Received By: <u>[Signature]</u>	Date: <u>11-13-18</u>

Delivered By: (Circle One) Other

Sample Condition Cool ☐ Intact ☒
☐ Yes ☒ No ☐ Yes ☒ No ☐

CHECKED BY: [Signature] (Initials)

REMARKS: Email Results



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

November 20, 2018

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NBTWEEN

Enclosed are the results of analyses for samples received by the laboratory on 11/14/18 16:45.

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/ga/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, appearing to read "Mike Snyder", is written over a horizontal line.

Mike Snyder For 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: 11/14/2018
 Reported: 11/20/2018
 Project Name: NBTWEEN
 Project Number: STATE BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 11/14/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: N WALL COM (H803324-01)

BTEX 8021B		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	11/16/2018	ND	1.89	94.7	2.00	2.59	
Toluene*	5.89	0.100	11/16/2018	ND	1.87	93.4	2.00	2.42	
Ethylbenzene*	8.58	0.100	11/16/2018	ND	1.82	90.8	2.00	2.16	
Total Xylenes*	16.5	0.300	11/16/2018	ND	5.67	94.5	6.00	2.71	
Total BTEX	31.0	0.600	11/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 143 % 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*	339	10.0	11/16/2018	ND	225	112	200	13.4	
DRO >C10-C28*	1450	10.0	11/16/2018	ND	239	119	200	12.0	
EXT DRO >C28-C36	216	10.0	11/16/2018	ND					

Surrogate: 1-Chlorooctane 141 % 41-142

Surrogate: 1-Chlorooctadecane 140 % 37.6-147

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* = Accredited Analyte

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Mike Snyder For 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: 11/14/2018
 Reported: 11/20/2018
 Project Name: NBTWEEN
 Project Number: STATE BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 11/14/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S WALL COM (H803324-02)

BTEX 8021B	mg/kg	Analyzed By: ms					S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	11/16/2018	ND	1.89	94.7	2.00	2.59	
Toluene*	1.54	0.100	11/16/2018	ND	1.87	93.4	2.00	2.42	
Ethylbenzene*	5.66	0.100	11/16/2018	ND	1.82	90.8	2.00	2.16	
Total Xylenes*	16.7	0.300	11/16/2018	ND	5.67	94.5	6.00	2.71	
Total BTEX	23.9	0.600	11/16/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 131 % 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*	163	10.0	11/16/2018	ND	225	112	200	13.4	
DRO >C10-C28*	968	10.0	11/16/2018	ND	239	119	200	12.0	
EXT DRO >C28-C36	183	10.0	11/16/2018	ND					

Surrogate: 1-Chlorooctane 135 % 41-142

Surrogate: 1-Chlorooctadecane 140 % 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: 11/14/2018
 Reported: 11/20/2018
 Project Name: NBTWEEN
 Project Number: STATE BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 11/14/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W WALL COM (H803324-03)

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	11/17/2018	ND	1.89	94.7	2.00	2.59	
Toluene*	<0.050	0.050	11/17/2018	ND	1.87	93.4	2.00	2.42	
Ethylbenzene*	0.075	0.050	11/17/2018	ND	1.82	90.8	2.00	2.16	
Total Xylenes*	0.174	0.150	11/17/2018	ND	5.67	94.5	6.00	2.71	
Total BTEX	<0.300	0.300	11/17/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 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	11/16/2018	ND	225	112	200	13.4	
DRO >C10-C28*	649	10.0	11/16/2018	ND	239	119	200	12.0	
EXT DRO >C28-C36	171	10.0	11/16/2018	ND					

Surrogate: 1-Chlorooctane 116 % 41-142

Surrogate: 1-Chlorooctadecane 134 % 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: 11/14/2018
 Reported: 11/20/2018
 Project Name: NBTWEEN
 Project Number: STATE BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 11/14/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: E WALL COM (H803324-04)

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	11/17/2018	ND	1.89	94.7	2.00	2.59	
Toluene*	<0.050	0.050	11/17/2018	ND	1.87	93.4	2.00	2.42	
Ethylbenzene*	<0.050	0.050	11/17/2018	ND	1.82	90.8	2.00	2.16	
Total Xylenes*	<0.150	0.150	11/17/2018	ND	5.67	94.5	6.00	2.71	
Total BTEX	<0.300	0.300	11/17/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	11/16/2018	ND	225	112	200	13.4	
DRO >C10-C28*	398	10.0	11/16/2018	ND	239	119	200	12.0	
EXT DRO >C28-C36	91.6	10.0	11/16/2018	ND					

Surrogate: 1-Chlorooctane 115 % 41-142

Surrogate: 1-Chlorooctadecane 125 % 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: 11/14/2018
 Reported: 11/20/2018
 Project Name: NBTWEEN
 Project Number: STATE BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 11/14/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 6 FP 1 @ 3' (H803324-05)

BTEX 8021B	mg/kg	Analyzed By: ms					S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.253	0.200	11/17/2018	ND	1.89	94.7	2.00	2.59	
Toluene*	11.7	0.200	11/17/2018	ND	1.87	93.4	2.00	2.42	
Ethylbenzene*	15.0	0.200	11/17/2018	ND	1.82	90.8	2.00	2.16	
Total Xylenes*	25.0	0.600	11/17/2018	ND	5.67	94.5	6.00	2.71	
Total BTEX	52.0	1.20	11/17/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 130 % 73.3-129

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*	572	10.0	11/16/2018	ND	225	112	200	13.4	
DRO >C10-C28*	2740	10.0	11/16/2018	ND	239	119	200	12.0	
EXT DRO >C28-C36	363	10.0	11/16/2018	ND					

Surrogate: 1-Chlorooctane 161 % 41-142

Surrogate: 1-Chlorooctadecane 134 % 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: 11/14/2018
 Reported: 11/20/2018
 Project Name: NBTWEEN
 Project Number: STATE BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 11/14/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 6 FP 2 @ 3' (H803324-06)

BTEX 8021B	mg/kg	Analyzed By: ms						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.392	0.200	11/17/2018	ND	1.89	94.7	2.00	2.59	
Toluene*	20.3	0.200	11/17/2018	ND	1.87	93.4	2.00	2.42	
Ethylbenzene*	23.9	0.200	11/17/2018	ND	1.82	90.8	2.00	2.16	
Total Xylenes*	42.6	0.600	11/17/2018	ND	5.67	94.5	6.00	2.71	
Total BTEX	87.1	1.20	11/17/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 139 % 73.3-129

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*	816	10.0	11/16/2018	ND	225	112	200	13.4	
DRO >C10-C28*	3400	10.0	11/16/2018	ND	239	119	200	12.0	
EXT DRO >C28-C36	464	10.0	11/16/2018	ND					

Surrogate: 1-Chlorooctane 230 % 41-142

Surrogate: 1-Chlorooctadecane 222 % 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: 11/14/2018
 Reported: 11/20/2018
 Project Name: NBTWEEN
 Project Number: STATE BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 11/14/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 6 FP 3 @ 3' (H803324-07)

BTEX 8021B	mg/kg	Analyzed By: ms					S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.130	0.100	11/17/2018	ND	1.89	94.7	2.00	2.59	
Toluene*	8.08	0.100	11/17/2018	ND	1.87	93.4	2.00	2.42	
Ethylbenzene*	7.67	0.100	11/17/2018	ND	1.82	90.8	2.00	2.16	
Total Xylenes*	19.8	0.300	11/17/2018	ND	5.67	94.5	6.00	2.71	
Total BTEX	35.7	0.600	11/17/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 143 % 73.3-129

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*	343	10.0	11/16/2018	ND	225	112	200	13.4	
DRO >C10-C28*	1690	10.0	11/16/2018	ND	239	119	200	12.0	
EXT DRO >C28-C36	295	10.0	11/16/2018	ND					

Surrogate: 1-Chlorooctane 158 % 41-142

Surrogate: 1-Chlorooctadecane 216 % 37.6-147

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Notes and Definitions

- 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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Page 10 of 10



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Cardinal Laboratories</u>		BILL TO		ANALYSIS REQUEST															
Project Manager: <u>Bruce Barber</u>		P.O. #:																	
Address:		Company:																	
City: <u>Hobbs</u>		Attn: <u>State</u>																	
Phone #: <u>505-888-4040</u>		Address:																	
Project #:		City:																	
Project Name:		State:																	
Project Location: <u>NB Turner State Bottery</u>		Phone #:																	
Sampler Name: <u>Joe Quaresima</u>		Fax #:																	
FOR LAB USE ONLY		MATRIX		PRESERV.		SAMPLING													
Lab I.D.		GROUNDWATER		ACID/BASE:															
H803 324		WASTEWATER		OTHER:															
1 N Wall Barn		# CONTAINERS		OTHER:															
2 S Wall Barn		(G)RAB OR (C)PMP		SLUDGE															
3 W Wall Barn				OIL															
4 E Wall Barn				SOIL															
5 SP6 FP 1 @ 3'				WASTEWATER															
6 SP6 FP 2 @ 3'				GROUNDWATER															
7 SP6 FP 3 @ 3'				SLUDGE															
				OIL															
				SOIL															
				WASTEWATER															
				GROUNDWATER															
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				SLUDGE															
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				# CONTAINERS															
				(G)RAB OR (C)PMP															
				SLUDGE															
				OIL															
				SOIL															
				WASTEWATER															
				GROUNDWATER															
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				(G)RAB OR (C)PMP															
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				(G)RAB OR (C)PMP															
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				# CONTAINERS															
				(G)RAB OR (C)PMP															
				SLUDGE															
				OIL															
				SOIL															
				WASTEWATER															
				GROUNDWATER															
				# CONTAINERS															
				(G)RAB OR (C)PMP															
				SLUDGE															
				OIL															
				SOIL															
				WASTEWATER															
				GROUNDWATER															
				# CONTAINERS															
				(G)RAB OR (C)PMP															



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

December 04, 2018

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NBTWEEN

Enclosed are the results of analyses for samples received by the laboratory on 11/29/18 16:35.

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,

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: 11/29/2018
 Reported: 12/04/2018
 Project Name: NBTWEEN
 Project Number: STATE BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 11/29/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 6 @ 4' (H803509-01)

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	12/03/2018	ND	2.20	110	2.00	0.326	
Toluene*	24.8	0.500	12/03/2018	ND	2.15	108	2.00	0.749	
Ethylbenzene*	8.43	0.500	12/03/2018	ND	2.05	103	2.00	0.838	
Total Xylenes*	41.1	1.50	12/03/2018	ND	6.63	110	6.00	1.01	
Total BTEX	74.3	3.00	12/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 123 % 73.3-129

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*	1050	50.0	12/01/2018	ND	221	110	200	1.94	
DRO >C10-C28*	4860	50.0	12/01/2018	ND	227	114	200	2.69	
EXT DRO >C28-C36	726	50.0	12/01/2018	ND					

Surrogate: 1-Chlorooctane 142 % 41-142

Surrogate: 1-Chlorooctadecane 226 % 37.6-147

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: 11/29/2018
 Reported: 12/04/2018
 Project Name: NBTWEEN
 Project Number: STATE BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 11/29/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 6 @ 5' (H803509-02)

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	12/03/2018	ND	2.20	110	2.00	0.326	
Toluene*	0.066	0.050	12/03/2018	ND	2.15	108	2.00	0.749	
Ethylbenzene*	<0.050	0.050	12/03/2018	ND	2.05	103	2.00	0.838	
Total Xylenes*	<0.150	0.150	12/03/2018	ND	6.63	110	6.00	1.01	
Total BTEX	<0.300	0.300	12/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 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	12/01/2018	ND	221	110	200	1.94	
DRO >C10-C28*	50.2	10.0	12/01/2018	ND	227	114	200	2.69	
EXT DRO >C28-C36	11.9	10.0	12/01/2018	ND					

Surrogate: 1-Chlorooctane 91.5 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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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: 11/29/2018
 Reported: 12/04/2018
 Project Name: NBTWEEN
 Project Number: STATE BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 11/29/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 6 @ 6' (H803509-03)

BTEX 80218		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.632	0.500	12/03/2018	ND	2.20	110	2.00	0.326	
Toluene*	26.8	0.500	12/03/2018	ND	2.15	108	2.00	0.749	
Ethylbenzene*	22.7	0.500	12/03/2018	ND	2.05	103	2.00	0.838	
Total Xylenes*	38.5	1.50	12/03/2018	ND	6.63	110	6.00	1.01	
Total BTEX	88.6	3.00	12/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 115 % 73.3-129

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*	726	10.0	12/01/2018	ND	221	110	200	1.94	
DRO >C10-C28*	2190	10.0	12/01/2018	ND	227	114	200	2.69	
EXT DRO >C28-C36	315	10.0	12/01/2018	ND					

Surrogate: 1-Chlorooctane 125 % 41-142

Surrogate: 1-Chlorooctadecane 161 % 37.6-147

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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: 11/29/2018
 Reported: 12/04/2018
 Project Name: NBTWEEN
 Project Number: STATE BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 11/29/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 6 @ 7' (H803509-04)

BTEX 80218	mg/kg	Analyzed By: ms							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/03/2018	ND	2.20	110	2.00	0.326	
Toluene*	1.39	0.050	12/03/2018	ND	2.15	108	2.00	0.749	
Ethylbenzene*	2.21	0.050	12/03/2018	ND	2.05	103	2.00	0.838	
Total Xylenes*	3.77	0.150	12/03/2018	ND	6.63	110	6.00	1.01	
Total BTEX	7.36	0.300	12/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 125 % 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*	109	10.0	12/01/2018	ND	221	110	200	1.94	
DRO >C10-C28*	876	10.0	12/01/2018	ND	227	114	200	2.69	
EXT DRO >C28-C36	143	10.0	12/01/2018	ND					

Surrogate: 1-Chlorooctane 97.0 % 41-142

Surrogate: 1-Chlorooctadecane 124 % 37.6-147

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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: 11/29/2018
 Reported: 12/04/2018
 Project Name: NBTWEEN
 Project Number: STATE BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 11/29/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 6 @ 8' (H803509-05)

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	12/03/2018	ND	2.20	110	2.00	0.326	
Toluene*	<0.050	0.050	12/03/2018	ND	2.15	108	2.00	0.749	
Ethylbenzene*	<0.050	0.050	12/03/2018	ND	2.05	103	2.00	0.838	
Total Xylenes*	<0.150	0.150	12/03/2018	ND	6.63	110	6.00	1.01	
Total BTEX	<0.300	0.300	12/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 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	12/01/2018	ND	221	110	200	1.94	
DRO >C10-C28*	43.7	10.0	12/01/2018	ND	227	114	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	12/01/2018	ND					

Surrogate: 1-Chlorooctane 90.2 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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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: 11/29/2018
 Reported: 12/04/2018
 Project Name: NBTWEEN
 Project Number: STATE BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 11/29/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 6 - N WALL (H803509-06)

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	12/03/2018	ND	2.20	110	2.00	0.326	
Toluene*	<0.050	0.050	12/03/2018	ND	2.15	108	2.00	0.749	
Ethylbenzene*	<0.050	0.050	12/03/2018	ND	2.05	103	2.00	0.838	
Total Xylenes*	<0.150	0.150	12/03/2018	ND	6.63	110	6.00	1.01	
Total BTEX	<0.300	0.300	12/03/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 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	12/01/2018	ND	221	110	200	1.94	
DRO >C10-C28*	<10.0	10.0	12/01/2018	ND	227	114	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	12/01/2018	ND					

Surrogate: 1-Chlorooctane 94.3 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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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-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

Cardinal Laboratories

*=Accredited Analyte

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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>Apache</u>		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: <u>Bruce Baker</u>		Company:					
Address:		Attn:					
City: <u>Hobbs</u>		State: <u>NM</u>		Zip: <u>88240</u>			
Phone #:		Fax #:		Address:			
Project #:		Project Owner:		City:			
Project Name:		State:		Zip:			
Project Location: <u>NB Thompson State Battery</u>		Phone #:					
Sampler Name: <u>Joe Cuesada</u>		Fax #:					
FOR LAB USE ONLY		MATRIX		PRESERV.		SAMPLING	
Lab I.D.		(G) RAB OR (C) OMP.		# CONTAINERS			
Sample I.D.		GROUNDWATER		WASTEWATER			
		SOIL		OIL			
		SLUDGE		OTHER:			
		ACID/BASE:		ICE / COOL			
		OTHER:					
		DATE		TIME			
<u>H803509</u>		<u>11-25-18</u>		<u>2:09pm</u>		<u>EXT TPH</u>	
<u>1 SD6 @ 4'</u>		<u>1</u>		<u>1</u>		<u>BT Ex</u>	
<u>2 SD6 @ 5'</u>		<u>1</u>		<u>1</u>			
<u>3 SD6 @ 6'</u>		<u>1</u>		<u>1</u>			
<u>4 SD6 @ 7'</u>		<u>1</u>		<u>1</u>			
<u>5 SD6 @ 8'</u>		<u>1</u>		<u>1</u>			
<u>6 SD6 @ Well</u>		<u>1</u>		<u>1</u>			

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising without based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other causes whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or 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 services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated warranties or otherwise.

Relinquished By: Joe Cuesada Date: 11-29-18 Received By: Bruce Baker

Relinquished By: Joe Cuesada Date: 11-29-18 Received By: Bruce Baker

Delivered By: (Circle One)

Sampler - UPS - Bus - Other: Other

Sample Condition
Cool ☒ Intact ☒
Yes ☒ No ☒

CHECKED BY: YO

Phone Result: ☐ Yes ☐ No Add'l Phone #: 1-800-451-1111
Fax Result: ☐ Yes ☐ No Add'l Fax #: 1-800-451-1111

REMARKS:

E-Mail



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

June 23, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NB TWEEN

Enclosed are the results of analyses for samples received by the laboratory on 06/21/21 16:50.

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". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/21/2021
 Reported: 06/23/2021
 Project Name: NB TWEEN
 Project Number: NB TWEEN BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 06/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 6 W1 (H211602-01)

BTX 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	06/22/2021	ND	2.14	107	2.00	1.61	
Toluene*	<0.050	0.050	06/22/2021	ND	2.06	103	2.00	1.59	
Ethylbenzene*	<0.050	0.050	06/22/2021	ND	1.98	98.9	2.00	2.14	
Total Xylenes*	<0.150	0.150	06/22/2021	ND	5.99	99.9	6.00	2.12	
Total BTX	<0.300	0.300	06/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: GM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/22/2021	ND	400	100	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	06/22/2021	ND	196	97.9	200	3.60	
DRO >C10-C28*	24.5	10.0	06/22/2021	ND	206	103	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/22/2021	ND					

Surrogate: 1-Chlorooctane 85.8 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.6 % 38.9-142

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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: 06/21/2021
 Reported: 06/23/2021
 Project Name: NB TWEEN
 Project Number: NB TWEEN BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 06/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 6 B1 @ 4' (H211602-02)

BTX 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	06/22/2021	ND	2.14	107	2.00	1.61	
Toluene*	<0.050	0.050	06/22/2021	ND	2.06	103	2.00	1.59	
Ethylbenzene*	<0.050	0.050	06/22/2021	ND	1.98	98.9	2.00	2.14	
Total Xylenes*	<0.150	0.150	06/22/2021	ND	5.99	99.9	6.00	2.12	
Total BTX	<0.300	0.300	06/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/22/2021	ND	400	100	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	06/22/2021	ND	196	97.9	200	3.60	
DRO >C10-C28*	<10.0	10.0	06/22/2021	ND	206	103	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/22/2021	ND					

Surrogate: 1-Chlorooctane 90.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 104 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/21/2021
 Reported: 06/23/2021
 Project Name: NB TWEEN
 Project Number: NB TWEEN BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 06/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 6 B2 @ 4' (H211602-03)

BTX 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	06/22/2021	ND	2.14	107	2.00	1.61		
Toluene*	<0.050	0.050	06/22/2021	ND	2.06	103	2.00	1.59		
Ethylbenzene*	<0.050	0.050	06/22/2021	ND	1.98	98.9	2.00	2.14		
Total Xylenes*	<0.150	0.150	06/22/2021	ND	5.99	99.9	6.00	2.12		
Total BTX	<0.300	0.300	06/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/22/2021	ND	400	100	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	06/22/2021	ND	196	97.9	200	3.60	
DRO >C10-C28*	64.4	10.0	06/22/2021	ND	206	103	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/22/2021	ND					

Surrogate: 1-Chlorooctane 89.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 103 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/21/2021
 Reported: 06/23/2021
 Project Name: NB TWEEN
 Project Number: NB TWEEN BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 06/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 6 B3 @ 4' (H211602-04)

BTX 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	06/22/2021	ND	2.14	107	2.00	1.61		
Toluene*	<0.050	0.050	06/22/2021	ND	2.06	103	2.00	1.59		
Ethylbenzene*	<0.050	0.050	06/22/2021	ND	1.98	98.9	2.00	2.14		
Total Xylenes*	<0.150	0.150	06/22/2021	ND	5.99	99.9	6.00	2.12		
Total BTX	<0.300	0.300	06/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/22/2021	ND	400	100	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	06/22/2021	ND	196	97.9	200	3.60	
DRO >C10-C28*	71.8	10.0	06/22/2021	ND	206	103	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/22/2021	ND					

Surrogate: 1-Chlorooctane 86.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 99.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/21/2021
 Reported: 06/23/2021
 Project Name: NB TWEEN
 Project Number: NB TWEEN BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 06/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 6 B6 @ 4' (H211602-05)

BTX 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	06/22/2021	ND	2.14	107	2.00	1.61		
Toluene*	<0.050	0.050	06/22/2021	ND	2.06	103	2.00	1.59		
Ethylbenzene*	<0.050	0.050	06/22/2021	ND	1.98	98.9	2.00	2.14		
Total Xylenes*	<0.150	0.150	06/22/2021	ND	5.99	99.9	6.00	2.12		
Total BTX	<0.300	0.300	06/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/22/2021	ND	400	100	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	06/22/2021	ND	196	97.9	200	3.60	
DRO >C10-C28*	30.1	10.0	06/22/2021	ND	206	103	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/22/2021	ND					

Surrogate: 1-Chlorooctane 86.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/21/2021
 Reported: 06/23/2021
 Project Name: NB TWEEN
 Project Number: NB TWEEN BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 06/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 6 B5 @ 4' (H211602-06)

BTX 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	06/22/2021	ND	2.14	107	2.00	1.61		
Toluene*	<0.050	0.050	06/22/2021	ND	2.06	103	2.00	1.59		
Ethylbenzene*	<0.050	0.050	06/22/2021	ND	1.98	98.9	2.00	2.14		
Total Xylenes*	<0.150	0.150	06/22/2021	ND	5.99	99.9	6.00	2.12		
Total BTX	<0.300	0.300	06/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/22/2021	ND	400	100	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	06/22/2021	ND	196	97.9	200	3.60	
DRO >C10-C28*	<10.0	10.0	06/22/2021	ND	206	103	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/22/2021	ND					

Surrogate: 1-Chlorooctane 82.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/21/2021
 Reported: 06/23/2021
 Project Name: NB TWEEN
 Project Number: NB TWEEN BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 06/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 6 B6 @ 4' (H211602-07)

BTX 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	06/22/2021	ND	2.14	107	2.00	1.61		
Toluene*	<0.050	0.050	06/22/2021	ND	2.06	103	2.00	1.59		
Ethylbenzene*	<0.050	0.050	06/22/2021	ND	1.98	98.9	2.00	2.14		
Total Xylenes*	<0.150	0.150	06/22/2021	ND	5.99	99.9	6.00	2.12		
Total BTX	<0.300	0.300	06/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/22/2021	ND	400	100	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	06/22/2021	ND	196	97.9	200	3.60	
DRO >C10-C28*	81.9	10.0	06/22/2021	ND	206	103	200	3.56	
EXT DRO >C28-C36	11.5	10.0	06/22/2021	ND					

Surrogate: 1-Chlorooctane 83.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 98.5 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/21/2021
 Reported: 06/23/2021
 Project Name: NB TWEEN
 Project Number: NB TWEEN BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 06/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 5 W2 (H211602-08)

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	06/22/2021	ND	2.14	107	2.00	1.61	
Toluene*	<0.050	0.050	06/22/2021	ND	2.06	103	2.00	1.59	
Ethylbenzene*	<0.050	0.050	06/22/2021	ND	1.98	98.9	2.00	2.14	
Total Xylenes*	<0.150	0.150	06/22/2021	ND	5.99	99.9	6.00	2.12	
Total BTEx	<0.300	0.300	06/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/22/2021	ND	400	100	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	06/22/2021	ND	196	97.9	200	3.60	
DRO >C10-C28*	75.7	10.0	06/22/2021	ND	206	103	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/22/2021	ND					

Surrogate: 1-Chlorooctane 85.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 98.1 % 38.9-142

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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: 06/21/2021
 Reported: 06/23/2021
 Project Name: NB TWEEN
 Project Number: NB TWEEN BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 06/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 5 B7 @ 1' (H211602-09)

BTX 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	06/22/2021	ND	2.14	107	2.00	1.61		
Toluene*	<0.050	0.050	06/22/2021	ND	2.06	103	2.00	1.59		
Ethylbenzene*	<0.050	0.050	06/22/2021	ND	1.98	98.9	2.00	2.14		
Total Xylenes*	<0.150	0.150	06/22/2021	ND	5.99	99.9	6.00	2.12		
Total BTX	<0.300	0.300	06/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/22/2021	ND	400	100	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	06/22/2021	ND	196	97.9	200	3.60	
DRO >C10-C28*	10.2	10.0	06/22/2021	ND	206	103	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/22/2021	ND					

Surrogate: 1-Chlorooctane 84.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 95.2 % 38.9-142

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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: 06/21/2021
 Reported: 06/23/2021
 Project Name: NB TWEEN
 Project Number: NB TWEEN BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 06/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 5 B8 @ 1' (H211602-10)

BTX 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	06/22/2021	ND	2.14	107	2.00	1.61		
Toluene*	<0.050	0.050	06/22/2021	ND	2.06	103	2.00	1.59		
Ethylbenzene*	<0.050	0.050	06/22/2021	ND	1.98	98.9	2.00	2.14		
Total Xylenes*	<0.150	0.150	06/22/2021	ND	5.99	99.9	6.00	2.12		
Total BTX	<0.300	0.300	06/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/22/2021	ND	400	100	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	06/22/2021	ND	196	97.9	200	3.60	
DRO >C10-C28*	<10.0	10.0	06/22/2021	ND	206	103	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/22/2021	ND					

Surrogate: 1-Chlorooctane 84.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.5 % 38.9-142

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: 06/21/2021
 Reported: 06/23/2021
 Project Name: NB TWEEN
 Project Number: NB TWEEN BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 06/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 1' (H211602-11)

BTX 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	06/22/2021	ND	2.14	107	2.00	1.61	
Toluene*	<0.050	0.050	06/22/2021	ND	2.06	103	2.00	1.59	
Ethylbenzene*	<0.050	0.050	06/22/2021	ND	1.98	98.9	2.00	2.14	
Total Xylenes*	<0.150	0.150	06/22/2021	ND	5.99	99.9	6.00	2.12	
Total BTX	<0.300	0.300	06/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/22/2021	ND	400	100	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	06/22/2021	ND	196	97.9	200	3.60	
DRO >C10-C28*	<10.0	10.0	06/22/2021	ND	206	103	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/22/2021	ND					

Surrogate: 1-Chlorooctane 88.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 102 % 38.9-142

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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: 06/21/2021
 Reported: 06/23/2021
 Project Name: NB TWEEN
 Project Number: NB TWEEN BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 06/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 1' (H211602-12)

BTX 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	06/22/2021	ND	2.14	107	2.00	1.61	
Toluene*	<0.050	0.050	06/22/2021	ND	2.06	103	2.00	1.59	
Ethylbenzene*	<0.050	0.050	06/22/2021	ND	1.98	98.9	2.00	2.14	
Total Xylenes*	<0.150	0.150	06/22/2021	ND	5.99	99.9	6.00	2.12	
Total BTX	<0.300	0.300	06/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/22/2021	ND	400	100	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	06/22/2021	ND	196	97.9	200	3.60	
DRO >C10-C28*	<10.0	10.0	06/22/2021	ND	206	103	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/22/2021	ND					

Surrogate: 1-Chlorooctane 86.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.2 % 38.9-142

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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: 06/21/2021
 Reported: 06/23/2021
 Project Name: NB TWEEN
 Project Number: NB TWEEN BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 06/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ 1' (H211602-13)

BTX 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	06/22/2021	ND	2.14	107	2.00	1.61	
Toluene*	<0.050	0.050	06/22/2021	ND	2.06	103	2.00	1.59	
Ethylbenzene*	<0.050	0.050	06/22/2021	ND	1.98	98.9	2.00	2.14	
Total Xylenes*	<0.150	0.150	06/22/2021	ND	5.99	99.9	6.00	2.12	
Total BTX	<0.300	0.300	06/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/22/2021	ND	400	100	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	06/22/2021	ND	196	97.9	200	3.60	
DRO >C10-C28*	<10.0	10.0	06/22/2021	ND	206	103	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/22/2021	ND					

Surrogate: 1-Chlorooctane 85.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 103 % 38.9-142

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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: 06/21/2021
 Reported: 06/23/2021
 Project Name: NB TWEEN
 Project Number: NB TWEEN BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 06/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ 2' (H211602-14)

BTX 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	06/22/2021	ND	2.14	107	2.00	1.61	
Toluene*	<0.050	0.050	06/22/2021	ND	2.06	103	2.00	1.59	
Ethylbenzene*	<0.050	0.050	06/22/2021	ND	1.98	98.9	2.00	2.14	
Total Xylenes*	<0.150	0.150	06/22/2021	ND	5.99	99.9	6.00	2.12	
Total BTX	<0.300	0.300	06/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/22/2021	ND	400	100	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	06/22/2021	ND	196	97.9	200	3.60	
DRO >C10-C28*	<10.0	10.0	06/22/2021	ND	206	103	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/22/2021	ND					

Surrogate: 1-Chlorooctane 88.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 104 % 38.9-142

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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: 06/21/2021
 Reported: 06/23/2021
 Project Name: NB TWEEN
 Project Number: NB TWEEN BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 06/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 4 @ 6" (H211602-15)

BTX 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	06/22/2021	ND	2.14	107	2.00	1.61	
Toluene*	<0.050	0.050	06/22/2021	ND	2.06	103	2.00	1.59	
Ethylbenzene*	<0.050	0.050	06/22/2021	ND	1.98	98.9	2.00	2.14	
Total Xylenes*	<0.150	0.150	06/22/2021	ND	5.99	99.9	6.00	2.12	
Total BTX	<0.300	0.300	06/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/22/2021	ND	400	100	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	06/22/2021	ND	196	97.9	200	3.60	
DRO >C10-C28*	<10.0	10.0	06/22/2021	ND	206	103	200	3.56	
EXT DRO >C28-C36	<10.0	10.0	06/22/2021	ND					

Surrogate: 1-Chlorooctane 88.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 101 % 38.9-142

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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

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Apex</u>		P.O. #:		ANALYSIS REQUEST	
Project Manager: <u>Jeff Beeson</u>		Company:			
Address:		Attn:			
City: <u>Hobbs</u>		State: <u>NM</u> Zip: <u>88240</u>			
Phone #:		Address:			
Project #:		City:			
Project Name:		State:			
Project Location: <u>UBT Water Battery</u>		Zip:			
Sample Name: <u>Jeff Beeson</u>		Phone #:			
FOR LAB USE ONLY		Fax #:			
Lab I.D. <u>H211602</u>	Sample I.D.	(G)RAB OR (C)OMP.			
		# CONTAINERS			
		GROUNDWATER			
		WASTEWATER			
		SOIL			
		OIL			
		SLUDGE			
		OTHER:			
		ACID/BASE:			
		ICE / COOL			
		OTHER:			
		DATE	TIME		
1	SPL W1	6/21	2:30	X	CI
2	SPL R1 04		2:32	X	EXT TRH
3	SPL R2 04		2:34	X	BTEX
4	SPL R3 04		2:36		
5	SPL R4 04		2:38		
6	SPL R5 04		2:40		
7	SPL R6 04		2:42		
8	SPL R7 04		2:44		
9	SPL R8 04		2:46		
10	SPL R9 04		2:48		
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Relinquished By: <u>Jeff Beeson</u>		All Results are emailed. Please provide Email address:			
Date: <u>6/21</u>		Time: <u>4:50</u>			
Received By: <u>Jeff Beeson</u>		Time: <u>4:50</u>			
Delivered By: (Circle One)		Observed Temp. °C <u>4.8</u>			
Sampler - UPS - Bus - Other:		Corrected Temp. °C			
Turnaround Time: <u>Standard</u>		Thermometer ID #113			
Correction Factor None		Correction Temp. °C			
Bacteria (only) Sample Condition		Cool Intact			
Cool Intact		Yes <input type="checkbox"/> No <input type="checkbox"/>			
Observed Temp. °C		Corrected Temp. °C			



Page 19 of 19

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



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

June 28, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NB TWEEN

Enclosed are the results of analyses for samples received by the laboratory on 06/22/21 16:50.

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". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

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: 06/22/2021
 Reported: 06/28/2021
 Project Name: NB TWEEN
 Project Number: NB TWEEN BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 06/22/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: L1 @ SURFACE (H211624-01)

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	06/25/2021	ND	1.98	99.1	2.00	5.73	
Toluene*	<0.050	0.050	06/25/2021	ND	1.92	95.8	2.00	4.89	
Ethylbenzene*	<0.050	0.050	06/25/2021	ND	1.85	92.5	2.00	4.95	
Total Xylenes*	<0.150	0.150	06/25/2021	ND	5.62	93.7	6.00	4.69	
Total BTEX	<0.300	0.300	06/25/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	06/25/2021	ND	432	108	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2021	ND	191	95.7	200	2.52	
DRO >C10-C28*	1320	10.0	06/24/2021	ND	217	108	200	0.469	
EXT DRO >C28-C36	504	10.0	06/24/2021	ND					

Surrogate: 1-Chlorooctane 60.7 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.8 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

**BILL TO**

ANALYSIS REQUEST

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



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

July 01, 2021

JEFFREY BROOM

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NB TWEEN

Enclosed are the results of analyses for samples received by the laboratory on 06/29/21 10:42.

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". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/29/2021
 Reported: 07/01/2021
 Project Name: NB TWEEN
 Project Number: NB TWEEN BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 06/28/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP - 7 @ 5' (H211681-01)

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	06/29/2021	ND	1.93	96.5	2.00	8.01	
Toluene*	<0.050	0.050	06/29/2021	ND	1.86	93.1	2.00	8.19	
Ethylbenzene*	<0.050	0.050	06/29/2021	ND	1.80	89.8	2.00	8.13	
Total Xylenes*	<0.150	0.150	06/29/2021	ND	5.46	90.9	6.00	7.82	
Total BTEX	<0.300	0.300	06/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 69.9-140

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	06/29/2021	ND	179	89.6	200	0.136	
DRO >C10-C28*	<10.0	10.0	06/29/2021	ND	192	96.0	200	0.553	
EXT DRO >C28-C36	<10.0	10.0	06/29/2021	ND					

Surrogate: 1-Chlorooctane 92.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 97.7 % 38.9-142

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Analytical Results For:

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

Received: 06/29/2021
 Reported: 07/01/2021
 Project Name: NB TWEEN
 Project Number: NB TWEEN BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 06/28/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP - 7 @ 6' (H211681-02)

BTX 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	06/29/2021	ND	1.93	96.5	2.00	8.01		
Toluene*	<0.050	0.050	06/29/2021	ND	1.86	93.1	2.00	8.19		
Ethylbenzene*	<0.050	0.050	06/29/2021	ND	1.80	89.8	2.00	8.13		
Total Xylenes*	<0.150	0.150	06/29/2021	ND	5.46	90.9	6.00	7.82		
Total BTX	<0.300	0.300	06/29/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

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	06/30/2021	ND	223	112	200	5.39		
DRO >C10-C28*	<10.0	10.0	06/30/2021	ND	234	117	200	2.12		
EXT DRO >C28-C36	<10.0	10.0	06/30/2021	ND						

Surrogate: 1-Chlorooctane 80.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 80.7 % 38.9-142

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Analytical Results For:

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

Received: 06/29/2021
 Reported: 07/01/2021
 Project Name: NB TWEEN
 Project Number: NB TWEEN BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 06/28/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP - 7 @ 7' (H211681-03)

BTX 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	06/29/2021	ND	1.93	96.5	2.00	8.01	
Toluene*	<0.050	0.050	06/29/2021	ND	1.86	93.1	2.00	8.19	
Ethylbenzene*	<0.050	0.050	06/29/2021	ND	1.80	89.8	2.00	8.13	
Total Xylenes*	<0.150	0.150	06/29/2021	ND	5.46	90.9	6.00	7.82	
Total BTX	<0.300	0.300	06/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

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	06/30/2021	ND	223	112	200	5.39	
DRO >C10-C28*	<10.0	10.0	06/30/2021	ND	234	117	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	06/30/2021	ND					

Surrogate: 1-Chlorooctane 81.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.3 % 38.9-142

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Analytical Results For:

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

Received: 06/29/2021
 Reported: 07/01/2021
 Project Name: NB TWEEN
 Project Number: NB TWEEN BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 06/28/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP - 7 @ 8' (H211681-04)

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	06/29/2021	ND	1.93	96.5	2.00	8.01	
Toluene*	<0.050	0.050	06/29/2021	ND	1.86	93.1	2.00	8.19	
Ethylbenzene*	<0.050	0.050	06/29/2021	ND	1.80	89.8	2.00	8.13	
Total Xylenes*	<0.150	0.150	06/29/2021	ND	5.46	90.9	6.00	7.82	
Total BTEx	<0.300	0.300	06/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

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	06/30/2021	ND	223	112	200	5.39	
DRO >C10-C28*	<10.0	10.0	06/30/2021	ND	234	117	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	06/30/2021	ND					

Surrogate: 1-Chlorooctane 85.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 86.2 % 38.9-142

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Analytical Results For:

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

Received: 06/29/2021
 Reported: 07/01/2021
 Project Name: NB TWEEN
 Project Number: NB TWEEN BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 06/28/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP - 8 @ 5' (H211681-05)

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	06/29/2021	ND	1.93	96.5	2.00	8.01		
Toluene*	<0.050	0.050	06/29/2021	ND	1.86	93.1	2.00	8.19		
Ethylbenzene*	<0.050	0.050	06/29/2021	ND	1.80	89.8	2.00	8.13		
Total Xylenes*	<0.150	0.150	06/29/2021	ND	5.46	90.9	6.00	7.82		
Total BTEx	<0.300	0.300	06/29/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 69.9-140

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	06/30/2021	ND	223	112	200	5.39	
DRO >C10-C28*	50.6	10.0	06/30/2021	ND	234	117	200	2.12	
EXT DRO >C28-C36	28.7	10.0	06/30/2021	ND					

Surrogate: 1-Chlorooctane 85.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 88.7 % 38.9-142

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Analytical Results For:

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

Received: 06/29/2021
 Reported: 07/01/2021
 Project Name: NB TWEEN
 Project Number: NB TWEEN BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 06/28/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP - 8 @ 6' (H211681-06)

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	06/29/2021	ND	1.93	96.5	2.00	8.01	
Toluene*	<0.050	0.050	06/29/2021	ND	1.86	93.1	2.00	8.19	
Ethylbenzene*	<0.050	0.050	06/29/2021	ND	1.80	89.8	2.00	8.13	
Total Xylenes*	<0.150	0.150	06/29/2021	ND	5.46	90.9	6.00	7.82	
Total BTEx	<0.300	0.300	06/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

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	06/30/2021	ND	223	112	200	5.39	
DRO >C10-C28*	<10.0	10.0	06/30/2021	ND	234	117	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	06/30/2021	ND					

Surrogate: 1-Chlorooctane 77.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.8 % 38.9-142

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

Analytical Results For:

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

Received: 06/29/2021
 Reported: 07/01/2021
 Project Name: NB TWEEN
 Project Number: NB TWEEN BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 06/28/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP - 8 @ 7' (H211681-07)

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	06/29/2021	ND	1.93	96.5	2.00	8.01	
Toluene*	<0.050	0.050	06/29/2021	ND	1.86	93.1	2.00	8.19	
Ethylbenzene*	<0.050	0.050	06/29/2021	ND	1.80	89.8	2.00	8.13	
Total Xylenes*	<0.150	0.150	06/29/2021	ND	5.46	90.9	6.00	7.82	
Total BTEx	<0.300	0.300	06/29/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 69.9-140

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	06/30/2021	ND	223	112	200	5.39	
DRO >C10-C28*	<10.0	10.0	06/30/2021	ND	234	117	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	06/30/2021	ND					

Surrogate: 1-Chlorooctane 78.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 79.0 % 38.9-142

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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
 JEFFREY BROOM
 2350 W. MARLAND BLVD.
 HOBBS NM, 88240
 Fax To: (575) 393-2432

Received: 06/29/2021
 Reported: 07/01/2021
 Project Name: NB TWEEN
 Project Number: NB TWEEN BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 06/28/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP - 8 @ 8' (H211681-08)

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	06/29/2021	ND	1.93	96.5	2.00	8.01		
Toluene*	<0.050	0.050	06/29/2021	ND	1.86	93.1	2.00	8.19		
Ethylbenzene*	<0.050	0.050	06/29/2021	ND	1.80	89.8	2.00	8.13		
Total Xylenes*	<0.150	0.150	06/29/2021	ND	5.46	90.9	6.00	7.82		
Total BTEx	<0.300	0.300	06/29/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 69.9-140

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	06/30/2021	ND	223	112	200	5.39	
DRO >C10-C28*	<10.0	10.0	06/30/2021	ND	234	117	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	06/30/2021	ND					

Surrogate: 1-Chlorooctane 82.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 83.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Acme</u>		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: <u>Jeff Brown</u>		Company:					
Address:		Attn:					
City: <u>Losos</u>		State: <u>NM</u> Zip: <u>88240</u>		Address:			
Phone #:		City:		State:		Zip:	
Project #:		Phone #:		Fax #:			
Project Location: <u>NRISMAN Subers</u>		Sample Name: <u>see attached</u>		Matrix:			
FOR LAB USE ONLY		G) RAB OR (C) OMP.		DATE		TIME	
Lab I.D.		# CONTAINERS		GROUNDWATER		WASTEWATER	
				SOIL		OIL	
				SLUDGE		OTHER:	
				ACID/BASE:		ICE / COOL	
				OTHER:			
Sample I.D.		DATE		TIME		EX+TPH	
<u>1 SP705</u>		<u>6/28</u>		<u>9:38</u>		<u>X</u>	
<u>2 SP706</u>		<u>6/28</u>		<u>9:40</u>		<u>X</u>	
<u>3 SP707</u>		<u>6/28</u>		<u>9:42</u>		<u>X</u>	
<u>4 SP708</u>		<u>6/28</u>		<u>9:44</u>		<u>X</u>	
<u>5 SP805</u>		<u>6/28</u>		<u>9:46</u>		<u>X</u>	
<u>6 SP806</u>		<u>6/28</u>		<u>9:48</u>		<u>X</u>	
<u>7 SP807</u>		<u>6/28</u>		<u>9:50</u>		<u>X</u>	
<u>8 SP808</u>		<u>6/28</u>		<u>9:52</u>		<u>X</u>	

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Relinquished By: [Signature] Date: 6/29 Time: 10:42 Received By: [Signature] Date: 6/29 Time: 10:42

Delivered By: (Circle One) Observed Temp. °C 24 Sample Condition ☒ Cool ☐ Intact ☐ Yes ☐ No ☐ No CHECKED BY: (Initials) Yes

Sampler - UPS - Bus - Other: Corrected Temp. °C 24 Turnaround Time: Standard ☒ Rush ☐ Bacteria (only) ☐ Sample Condition ☐ Cool ☐ Intact ☐ Yes ☐ No ☐ No ☐ No Corrected Temp. °C

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

REMARKS:

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



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

July 14, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: NB TWEEN

Enclosed are the results of analyses for samples received by the laboratory on 07/13/21 9:40.

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". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

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: 07/13/2021
 Reported: 07/14/2021
 Project Name: NB TWEEN
 Project Number: NB TWEEN BATTERY
 Project Location: EDDY COUNTY

Sampling Date: 07/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: SP7 @ 1' (H211805-01)

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	07/13/2021	ND	2.12	106	2.00	1.58	
Toluene*	<0.050	0.050	07/13/2021	ND	2.04	102	2.00	1.50	
Ethylbenzene*	<0.050	0.050	07/13/2021	ND	1.97	98.7	2.00	1.78	
Total Xylenes*	<0.150	0.150	07/13/2021	ND	6.02	100	6.00	1.55	
Total BTEX	<0.300	0.300	07/13/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 69.9-140

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	07/13/2021	ND	212	106	200	2.71	
DRO >C10-C28*	361	10.0	07/13/2021	ND	223	111	200	7.96	
EXT DRO >C28-C36	133	10.0	07/13/2021	ND					

Surrogate: 1-Chlorooctane 90.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 117 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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RPD	Relative Percent Difference
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Celey D. Keene, Lab Director/Quality Manager

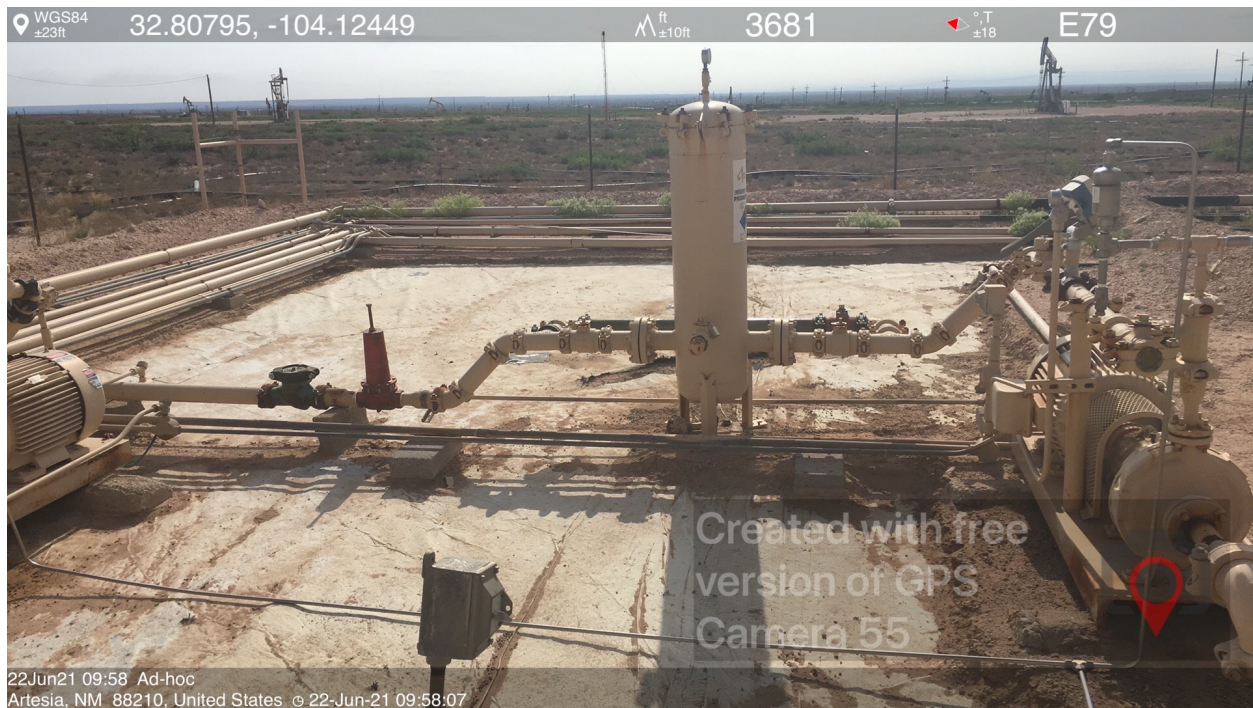
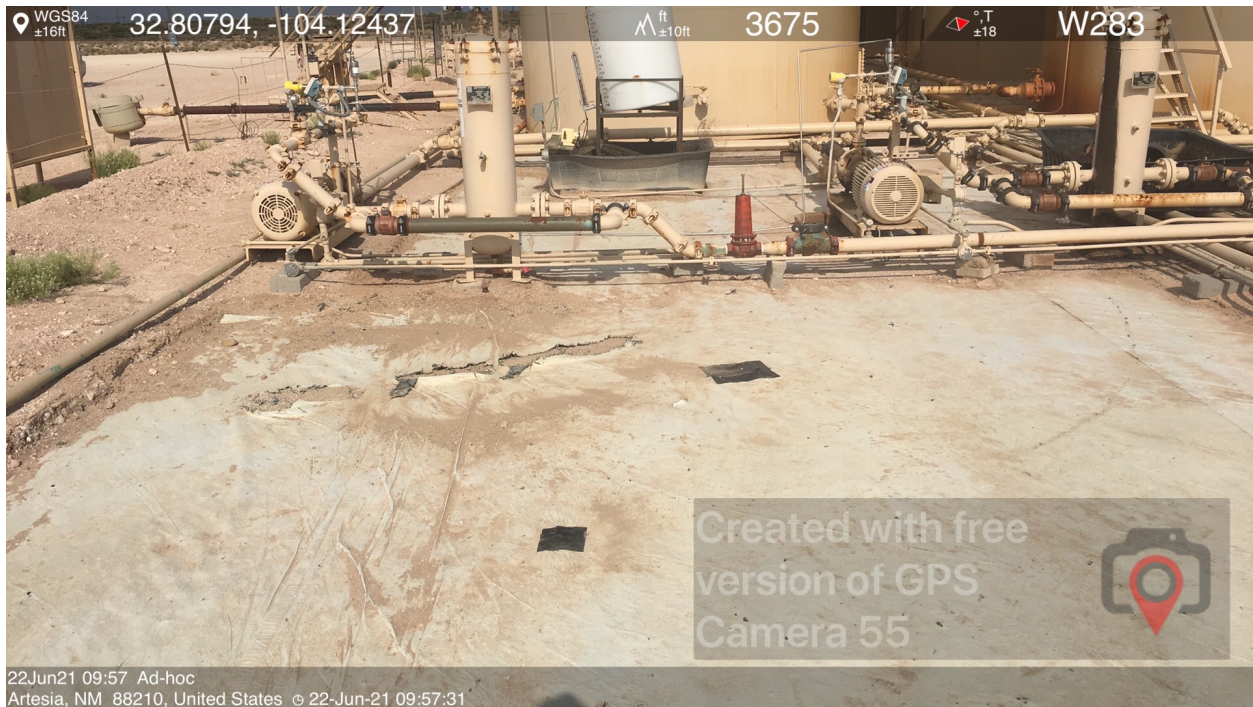


101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Agave</u> Project Manager: <u>Jeff Rooper</u> Address: City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u> Phone #: Fax #: Project #: Project Owner: Project Name: Project Location: <u>Western Butte</u> Sampler Name: <u>Joe Casale</u> Fax #:				BILL TO P.O. #: Company: Attn: Address: City: State: Zip: Phone #:				ANALYSIS REQUEST			
FOR LAB USE ONLY Lab I.D. <u>H211807</u> Sample I.D. <u>-01 SP7 @1</u>		(G)RAB OR (C)OMP # CONTAINERS <u>1</u> MATRIX GROUNDWATER WASTEWATER SOIL <u>1</u> OIL SLUDGE OTHER:		PRESERV. ACID/BASE: ICE/ COOL <u>1</u> OTHER:		SAMPLING DATE <u>7/12</u> TIME <u>9:00</u>		EXT TPH BTEX			
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or 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 services hereunder. If Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise,											
Refrindished By: <u>[Signature]</u> Date: <u>7/12</u> Time: <u>9:40</u> Received By: <u>[Signature]</u> Date: <u>7/12</u> Time: <u>9:40</u> Refrindished By: <u>[Signature]</u> Date: <u>7/12</u> Time: <u>9:40</u> Received By: <u>[Signature]</u> Date: <u>7/12</u> Time: <u>9:40</u>				Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address:		REMARKS:		Turnaround Time: <u>Standard</u> <input checked="" type="checkbox"/> <u>Rush</u> Thermometer ID #113 <input checked="" type="checkbox"/> <u>Standard</u> <input type="checkbox"/> <u>Rush</u> Correction Factor None <input type="checkbox"/> <u>Standard</u> <input type="checkbox"/> <u>Rush</u>		Bacteria (only) Sample Condition Cool Intact <input checked="" type="checkbox"/> <u>Yes</u> <input type="checkbox"/> <u>No</u> Observed Temp. °C <input type="checkbox"/> <u>Yes</u> <input type="checkbox"/> <u>No</u> Corrected Temp. °C	
Delivered By: (Circle One) <u>UPS</u> Observed Temp. °C <u>-1.44</u> Sample Condition Cooler Intact <input checked="" type="checkbox"/> <u>Yes</u> <input type="checkbox"/> <u>No</u> Sampler - UPS - Bus - Other: <input type="checkbox"/> <u>Yes</u> <input type="checkbox"/> <u>No</u> CHECKED BY: <u>[Signature]</u> (Initials) <u>CH</u> #113				Turnaround Time: <u>Standard</u> <input checked="" type="checkbox"/> <u>Rush</u> Thermometer ID #113 <input checked="" type="checkbox"/> <u>Standard</u> <input type="checkbox"/> <u>Rush</u> Correction Factor None <input type="checkbox"/> <u>Standard</u> <input type="checkbox"/> <u>Rush</u>		Bacteria (only) Sample Condition Cool Intact <input checked="" type="checkbox"/> <u>Yes</u> <input type="checkbox"/> <u>No</u> Observed Temp. °C <input type="checkbox"/> <u>Yes</u> <input type="checkbox"/> <u>No</u> Corrected Temp. °C		FORM-006 R-3.1 06/04/20			

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



North West Elevation

☀ 136°SE (T) ● 32°48'29"N, 104°7'29"W ±88ft ▲ 3682ft



North Elevation

☀ 161°S (T) ☉ 32°48'28"N, 104°7'29"W ±22ft ▲ 3682ft



South West Elevation

☀ 26°NE (T) ☉ 32°48'28"N, 104°7'29"W ±13ft ▲ 3681ft



South Elevation

☉ 357°N (T) ● 32°48'28"N, 104°7'29"W ±42ft ▲ 3681ft



South West Elevation

☉ 67°NE (T) ● 32°48'28"N, 104°7'29"W ±26ft ▲ 3681ft



West Elevation

☉ 88°E (T) ● 32°48'28"N, 104°7'29"W ±19ft ▲ 3681ft



South Elevation

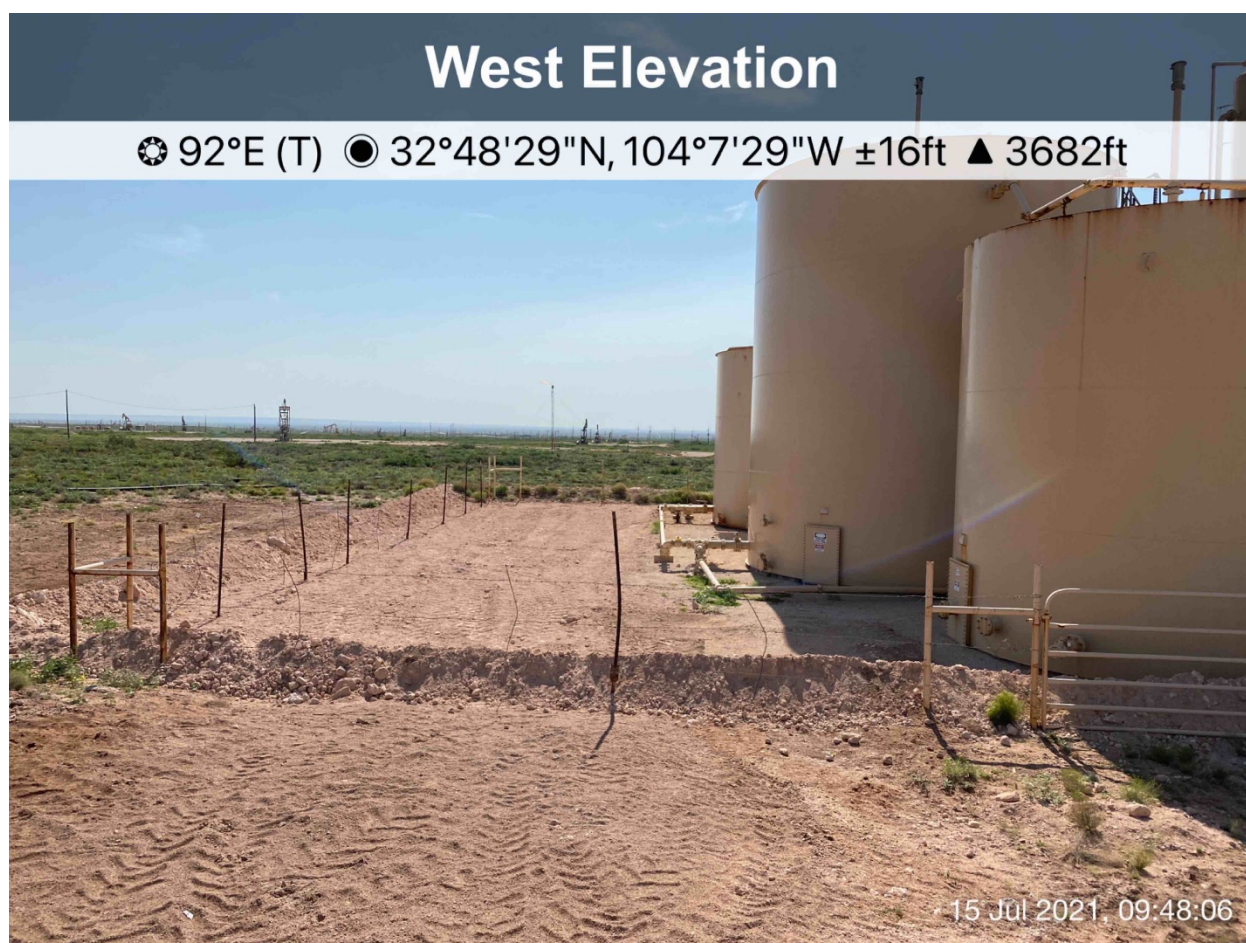
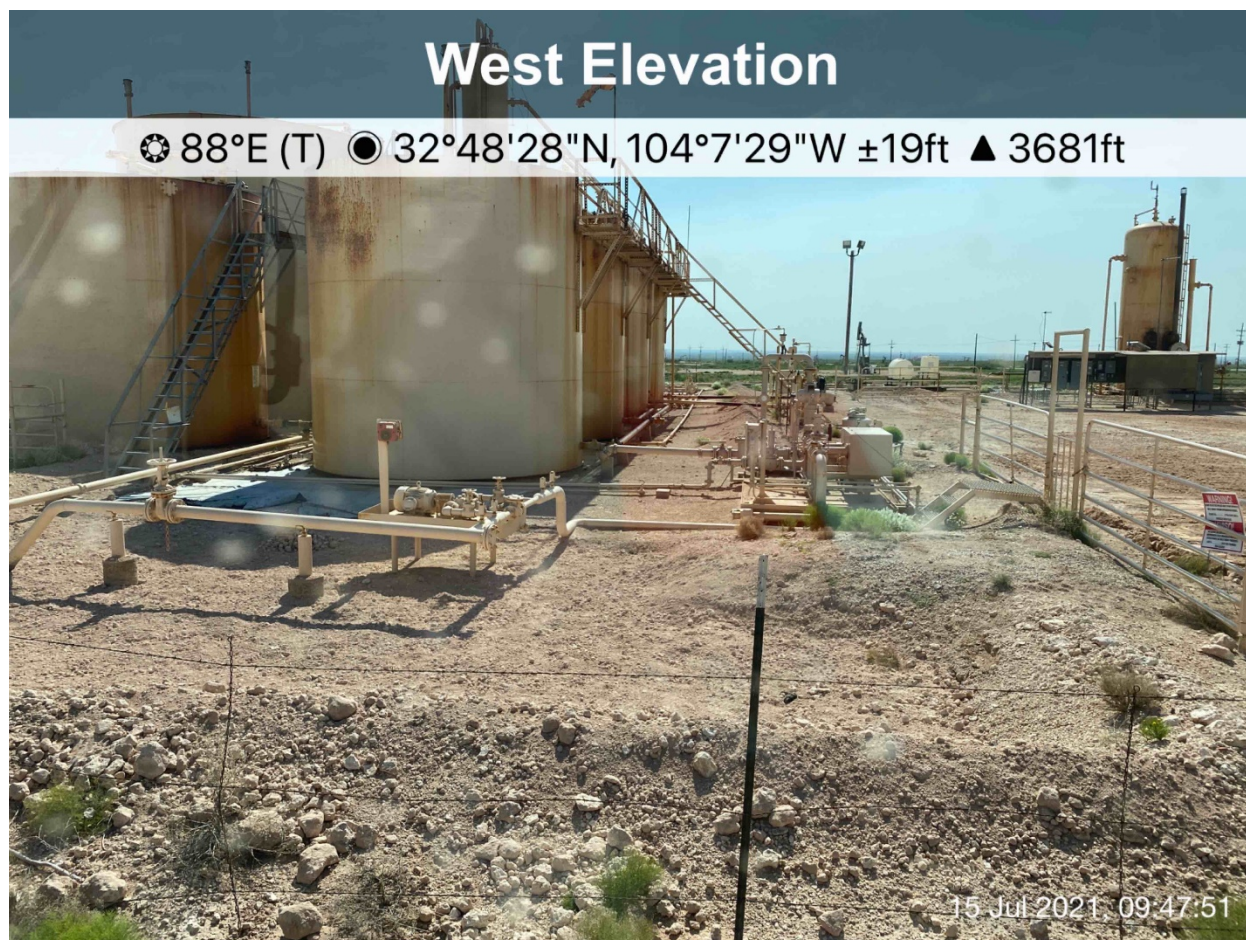
☉ 357°N (T) ● 32°48'28"N, 104°7'29"W ±42ft ▲ 3681ft

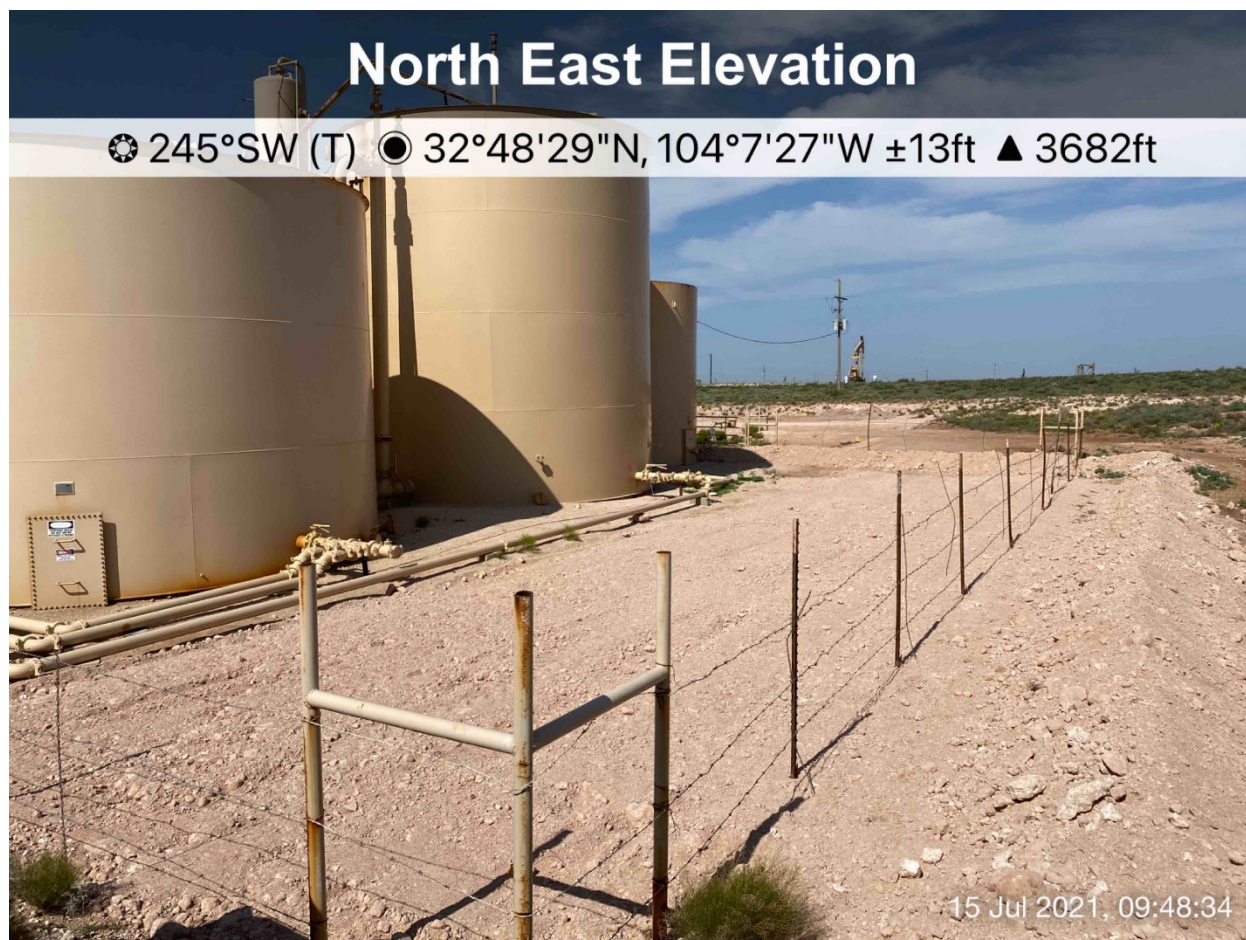


South West Elevation

☉ 67°NE (T) ● 32°48'28"N, 104°7'29"W ±26ft ▲ 3681ft







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 38949

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 38949
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	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.	3/17/2023