



2350 W Marland Blvd Hobbs, NM 88240

Remediation Plan

October 27, 2020

Re: Turner Battery Water Transfer Line
Case # NRM2024528755

Background:

On 08/24/2020 a release occurred on a 3" poly flow line due to a split in the flow line. The release (GPS: 32.46367, -103.15219) is located north of Eunice, New Mexico in unit letter K section 22 township 21S range 37E. A groundwater survey was conducted utilizing the NMOSE and USGS wells of record. The nearest well of record suggest the groundwater depth below the release to be 53 feet.

On 9/16/2020 vertical delineation was conducted utilizing a backhoe. Samples were collected in one foot intervals. SP 1 was advanced to a depth of 4 foot and SP 2 was taken to a depth of 10 feet. Samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. On 10/1/2020 surface horizontal 5-point composite samples not to exceed 200 square feet were collected and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX.

Remediation Plan:

Apache Corporation proposes that the release area be excavated to a depth of 4 foot. Final 5-point wall composites will be collected not exceeding 200 square feet and submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Once laboratory results for the walls are below table one standards for releases less than or equal to 50 feet to groundwater a 20-mil reinforced liner will be installed to a depth of 4 feet. All excavated material (382 yards) will be hauled to an OCD approved facility and backfilled with clean topsoil from the surrounding sand dunes as per the private surface landowners' guidelines. The remediation will be completed within 90 days of NMOCD approval of the plan.

Enclosed: C-141, Groundwater data, Maps, Sample Data, Laboratory Results, and Field Notes

Submitted by;

A handwritten signature in black ink that reads "Jeff Broom".

Environmental Technician

Jeffrey.Broom@apachecorp.com

Cell# 432-664-4677

Off# 575-393-7106

Incident ID	NRM2024528755
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>53</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Incident ID	NRM2024528755
District RP	
Facility ID	
Application ID	

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

Printed Name: Jeff Broom Title: Environmental Tech III
Signature: *Jeff Broom* Date: 10/27/2020
email: Jeffrey.Broom@apachecorp.com Telephone: 432.664.4677

OCD Only

Received by: Cristina Eads Date: 01/15/2021

Incident ID	NRM2024528755
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: Jeff Broom Title: Environmental Tech III
 Signature:  Date: 10/27/2020
 email: Jeffrey.Broom@apachecorp.com Telephone: 432.664.4677

OCD Only

Received by: Cristina Eads Date: 01/15/2021

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature:  Date: 01/15/2021

Show search results for 32.463...



Turner Battery Water Transfer Line



CP-00732:POD1

CP-00252:POD1

CP-00016:POD1

CP-00169:POD1

CP-00166:POD1

CP-00733:POD1

CP-00881

CP-00168:POD1

1:4513

-103.150 32.465 Degrees



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
 (quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	CP 00881	4	4	22	21S	37E		674402	3592824*

Driller License: 571 **Driller Company:** "GLASSPOOLE, GEORGE ""BILL"" W.E "

Driller Name: GLASSPOOLE, GEORGE W.

Drill Start Date: 09/04/1999 **Drill Finish Date:** 09/07/1999 **Plug Date:**

Log File Date: 09/10/1999 **PCW Rev Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 80 GPM

Casing Size: 5.50 **Depth Well:** 95 feet **Depth Water:** 53 feet

Water Bearing Stratifications:	Top	Bottom	Description
	53	95	Sandstone/Gravel/Conglomerate

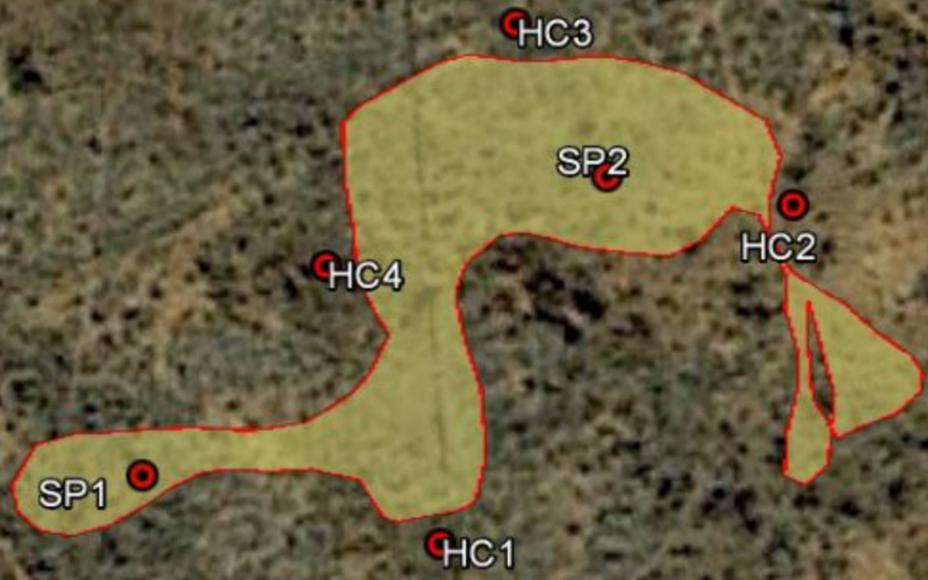
Casing Perforations:	Top	Bottom
	75	95

*UTM location was derived from PLSS - see Help

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

10/27/20 10:23 AM

POINT OF DIVERSION SUMMARY



80 ft

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Google earth

NEDU Injection Line
Complete List

Map ID	Sample Date	Sample ID	Depth	Field Chloride	Chloride	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
SP1	9/16/2020	SP1 @ Surface	S	7,431	5,920	<.050	<.050	<.050	<.150	<.300	<10.0	86.7	65.9	32.463693 -103.152332
	9/16/2020	SP1 @ 1'	1'	2,574	2,400	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0	
	9/16/2020	SP1 @ 2'	2'	2,018	1,880	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0	
	9/16/2020	SP1 @ 3'	3'	1,810	1,440	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0	
	9/16/2020	SP1 @ 4'	4'	389	112	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0	
	9/16/2020	SP1 @ 5'	5'	282										
SP2	9/16/2020	SP2 @ Surface	S	3,273	3,280	<.050	<.050	<.050	<.150	<.300	<10.0	12.2	<10.0	32.463807 -103.152128
	9/16/2020	SP2 @ 1'	1'	2,609	2,480	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0	
	9/16/2020	SP2 @ 2'	2'	3,228	2,800	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0	
	9/16/2020	SP2 @ 3'	3'	2,909	2,800	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0	
	9/16/2020	SP2 @ 4'	4'	1,791	1,550	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0	
	9/16/2020	SP2 @ 5'	5'	1,179										
	9/16/2020	SP2 @ 6'	6'	1,425	1,880	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0	
	9/16/2020	SP2 @ 7'	7'	1,255										
	9/16/2020	SP2 @ 8'	8'	881	800	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0	
	9/16/2020	SP2 @ 9'	9'	605										
9/16/2020	SP2 @ 10'	10'	481	256	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0		
HC1	10/1/2020	HC1	S	149	<16.0	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0	32.46367 -103.15220
HC2	10/1/2020	HC2	S	146	<16.0	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0	32.46384 -103.15206
HC3	10/1/2020	HC3	S	119	<16.0	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0	32.46387 -103.15217
HC4	10/1/2020	HC4	S	179	32	<.050	<.050	<.050	<.150	<.300	<10.0	<10.0	<10.0	32.46379 -103.15227



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

September 21, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: TURNER BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/16/20 12:22.

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:	09/16/2020	Sampling Date:	09/16/2020
Reported:	09/21/2020	Sampling Type:	Soil
Project Name:	TURNER BATTERY	Sampling Condition:	** (See Notes)
Project Number:	WATER TRANSFER LINE	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP - 1 @ SURFACE (H002462-01)

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	09/16/2020	ND	1.99	99.5	2.00	4.86	
Toluene*	<0.050	0.050	09/16/2020	ND	2.00	100	2.00	5.27	
Ethylbenzene*	<0.050	0.050	09/16/2020	ND	1.97	98.7	2.00	5.60	
Total Xylenes*	<0.150	0.150	09/16/2020	ND	5.68	94.6	6.00	5.62	
Total BTEX	<0.300	0.300	09/16/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5920	16.0	09/17/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2020	ND	180	90.2	200	1.55	
DRO >C10-C28*	86.7	10.0	09/16/2020	ND	177	88.7	200	1.18	
EXT DRO >C28-C36	65.9	10.0	09/16/2020	ND					

Surrogate: 1-Chlorooctane 89.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 100 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/16/2020	Sampling Date:	09/16/2020
Reported:	09/21/2020	Sampling Type:	Soil
Project Name:	TURNER BATTERY	Sampling Condition:	** (See Notes)
Project Number:	WATER TRANSFER LINE	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP - 1 @ 1' (H002462-02)

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	09/16/2020	ND	1.99	99.5	2.00	4.86	
Toluene*	<0.050	0.050	09/16/2020	ND	2.00	100	2.00	5.27	
Ethylbenzene*	<0.050	0.050	09/16/2020	ND	1.97	98.7	2.00	5.60	
Total Xylenes*	<0.150	0.150	09/16/2020	ND	5.68	94.6	6.00	5.62	
Total BTEX	<0.300	0.300	09/16/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	09/17/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2020	ND	184	92.0	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/16/2020	ND	191	95.7	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	09/16/2020	ND					

Surrogate: 1-Chlorooctane 96.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 106 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/16/2020	Sampling Date:	09/16/2020
Reported:	09/21/2020	Sampling Type:	Soil
Project Name:	TURNER BATTERY	Sampling Condition:	** (See Notes)
Project Number:	WATER TRANSFER LINE	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP - 1 @ 2' (H002462-03)

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	09/16/2020	ND	1.99	99.5	2.00	4.86	
Toluene*	<0.050	0.050	09/16/2020	ND	2.00	100	2.00	5.27	
Ethylbenzene*	<0.050	0.050	09/16/2020	ND	1.97	98.7	2.00	5.60	
Total Xylenes*	<0.150	0.150	09/16/2020	ND	5.68	94.6	6.00	5.62	
Total BTEX	<0.300	0.300	09/16/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	09/17/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2020	ND	184	92.0	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/16/2020	ND	191	95.7	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	09/16/2020	ND					

Surrogate: 1-Chlorooctane 100 % 44.3-144

Surrogate: 1-Chlorooctadecane 109 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/16/2020	Sampling Date:	09/16/2020
Reported:	09/21/2020	Sampling Type:	Soil
Project Name:	TURNER BATTERY	Sampling Condition:	** (See Notes)
Project Number:	WATER TRANSFER LINE	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP - 1 @ 3' (H002462-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2020	ND	1.99	99.5	2.00	4.86	
Toluene*	<0.050	0.050	09/16/2020	ND	2.00	100	2.00	5.27	
Ethylbenzene*	<0.050	0.050	09/16/2020	ND	1.97	98.7	2.00	5.60	
Total Xylenes*	<0.150	0.150	09/16/2020	ND	5.68	94.6	6.00	5.62	
Total BTEX	<0.300	0.300	09/16/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	09/17/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2020	ND	184	92.0	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/16/2020	ND	191	95.7	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	09/16/2020	ND					

Surrogate: 1-Chlorooctane 93.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/16/2020	Sampling Date:	09/16/2020
Reported:	09/21/2020	Sampling Type:	Soil
Project Name:	TURNER BATTERY	Sampling Condition:	** (See Notes)
Project Number:	WATER TRANSFER LINE	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP - 1 @ 4' (H002462-05)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/16/2020	ND	2.15	107	2.00	1.34		
Toluene*	<0.050	0.050	09/16/2020	ND	2.18	109	2.00	1.51		
Ethylbenzene*	<0.050	0.050	09/16/2020	ND	2.16	108	2.00	1.27		
Total Xylenes*	<0.150	0.150	09/16/2020	ND	6.21	104	6.00	1.20		
Total BTEX	<0.300	0.300	09/16/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	09/17/2020	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/16/2020	ND	184	92.0	200	2.27		
DRO >C10-C28*	<10.0	10.0	09/16/2020	ND	191	95.7	200	2.20		
EXT DRO >C28-C36	<10.0	10.0	09/16/2020	ND						

Surrogate: 1-Chlorooctane 92.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 101 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/16/2020	Sampling Date:	09/16/2020
Reported:	09/21/2020	Sampling Type:	Soil
Project Name:	TURNER BATTERY	Sampling Condition:	** (See Notes)
Project Number:	WATER TRANSFER LINE	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP - 2 @ SURFACE (H002462-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2020	ND	2.15	107	2.00	1.34	
Toluene*	<0.050	0.050	09/16/2020	ND	2.18	109	2.00	1.51	
Ethylbenzene*	<0.050	0.050	09/16/2020	ND	2.16	108	2.00	1.27	
Total Xylenes*	<0.150	0.150	09/16/2020	ND	6.21	104	6.00	1.20	
Total BTEX	<0.300	0.300	09/16/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	09/17/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2020	ND	184	92.0	200	2.27	
DRO >C10-C28*	12.2	10.0	09/16/2020	ND	191	95.7	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	09/16/2020	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-144

Surrogate: 1-Chlorooctadecane 118 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/16/2020	Sampling Date:	09/16/2020
Reported:	09/21/2020	Sampling Type:	Soil
Project Name:	TURNER BATTERY	Sampling Condition:	** (See Notes)
Project Number:	WATER TRANSFER LINE	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP - 2 @ 1' (H002462-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2020	ND	2.15	107	2.00	1.34	
Toluene*	<0.050	0.050	09/16/2020	ND	2.18	109	2.00	1.51	
Ethylbenzene*	<0.050	0.050	09/16/2020	ND	2.16	108	2.00	1.27	
Total Xylenes*	<0.150	0.150	09/16/2020	ND	6.21	104	6.00	1.20	
Total BTEX	<0.300	0.300	09/16/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	09/17/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2020	ND	184	92.0	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/16/2020	ND	191	95.7	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	09/16/2020	ND					

Surrogate: 1-Chlorooctane 107 % 44.3-144

Surrogate: 1-Chlorooctadecane 117 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/16/2020	Sampling Date:	09/16/2020
Reported:	09/21/2020	Sampling Type:	Soil
Project Name:	TURNER BATTERY	Sampling Condition:	** (See Notes)
Project Number:	WATER TRANSFER LINE	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP - 2 @ 2' (H002462-08)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2020	ND	2.15	107	2.00	1.34	
Toluene*	<0.050	0.050	09/16/2020	ND	2.18	109	2.00	1.51	
Ethylbenzene*	<0.050	0.050	09/16/2020	ND	2.16	108	2.00	1.27	
Total Xylenes*	<0.150	0.150	09/16/2020	ND	6.21	104	6.00	1.20	
Total BTEX	<0.300	0.300	09/16/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	09/17/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2020	ND	184	92.0	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/16/2020	ND	191	95.7	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	09/16/2020	ND					

Surrogate: 1-Chlorooctane 107 % 44.3-144

Surrogate: 1-Chlorooctadecane 117 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/16/2020	Sampling Date:	09/16/2020
Reported:	09/21/2020	Sampling Type:	Soil
Project Name:	TURNER BATTERY	Sampling Condition:	** (See Notes)
Project Number:	WATER TRANSFER LINE	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP - 2 @ 3' (H002462-09)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2020	ND	2.15	107	2.00	1.34	
Toluene*	<0.050	0.050	09/16/2020	ND	2.18	109	2.00	1.51	
Ethylbenzene*	<0.050	0.050	09/16/2020	ND	2.16	108	2.00	1.27	
Total Xylenes*	<0.150	0.150	09/16/2020	ND	6.21	104	6.00	1.20	
Total BTEX	<0.300	0.300	09/16/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	09/17/2020	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/16/2020	ND	184	92.0	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/16/2020	ND	191	95.7	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	09/16/2020	ND					

Surrogate: 1-Chlorooctane 99.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 110 % 42.2-156

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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:	09/16/2020	Sampling Date:	09/16/2020
Reported:	09/21/2020	Sampling Type:	Soil
Project Name:	TURNER BATTERY	Sampling Condition:	** (See Notes)
Project Number:	WATER TRANSFER LINE	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP - 2 @ 4' (H002462-10)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2020	ND	2.15	107	2.00	1.34	
Toluene*	<0.050	0.050	09/16/2020	ND	2.18	109	2.00	1.51	
Ethylbenzene*	<0.050	0.050	09/16/2020	ND	2.16	108	2.00	1.27	
Total Xylenes*	<0.150	0.150	09/16/2020	ND	6.21	104	6.00	1.20	
Total BTEX	<0.300	0.300	09/16/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1550	16.0	09/17/2020	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	09/16/2020	ND	184	92.0	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/16/2020	ND	191	95.7	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	09/16/2020	ND					

Surrogate: 1-Chlorooctane 98.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 109 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/16/2020	Sampling Date:	09/16/2020
Reported:	09/21/2020	Sampling Type:	Soil
Project Name:	TURNER BATTERY	Sampling Condition:	** (See Notes)
Project Number:	WATER TRANSFER LINE	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP - 2 @ 6' (H002462-11)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2020	ND	2.15	107	2.00	1.34	
Toluene*	<0.050	0.050	09/16/2020	ND	2.18	109	2.00	1.51	
Ethylbenzene*	<0.050	0.050	09/16/2020	ND	2.16	108	2.00	1.27	
Total Xylenes*	<0.150	0.150	09/16/2020	ND	6.21	104	6.00	1.20	
Total BTEX	<0.300	0.300	09/16/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	09/17/2020	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	09/16/2020	ND	184	92.0	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/16/2020	ND	191	95.7	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	09/16/2020	ND					

Surrogate: 1-Chlorooctane 92.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 101 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/16/2020	Sampling Date:	09/16/2020
Reported:	09/21/2020	Sampling Type:	Soil
Project Name:	TURNER BATTERY	Sampling Condition:	** (See Notes)
Project Number:	WATER TRANSFER LINE	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP - 2 @ 8' (H002462-12)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2020	ND	2.15	107	2.00	1.34	
Toluene*	<0.050	0.050	09/16/2020	ND	2.18	109	2.00	1.51	
Ethylbenzene*	<0.050	0.050	09/16/2020	ND	2.16	108	2.00	1.27	
Total Xylenes*	<0.150	0.150	09/16/2020	ND	6.21	104	6.00	1.20	
Total BTEX	<0.300	0.300	09/16/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	09/17/2020	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	09/16/2020	ND	184	92.0	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/16/2020	ND	191	95.7	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	09/16/2020	ND					

Surrogate: 1-Chlorooctane 104 % 44.3-144

Surrogate: 1-Chlorooctadecane 113 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/16/2020	Sampling Date:	09/16/2020
Reported:	09/21/2020	Sampling Type:	Soil
Project Name:	TURNER BATTERY	Sampling Condition:	** (See Notes)
Project Number:	WATER TRANSFER LINE	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SP - 2 @ 10' (H002462-13)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/16/2020	ND	2.15	107	2.00	1.34	
Toluene*	<0.050	0.050	09/16/2020	ND	2.18	109	2.00	1.51	
Ethylbenzene*	<0.050	0.050	09/16/2020	ND	2.16	108	2.00	1.27	
Total Xylenes*	<0.150	0.150	09/16/2020	ND	6.21	104	6.00	1.20	
Total BTEX	<0.300	0.300	09/16/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	09/17/2020	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	09/16/2020	ND	184	92.0	200	2.27	
DRO >C10-C28*	<10.0	10.0	09/16/2020	ND	191	95.7	200	2.20	
EXT DRO >C28-C36	<10.0	10.0	09/16/2020	ND					

Surrogate: 1-Chlorooctane 67.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 72.9 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- 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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Apple Project Manager: Seth Brown		P.O. #: Company:	
Address: City: Hobbs State: NM zip: 88240		Attn: Address:	
Phone #: Fax #:		City:	
Project #: Project Owner:		State: Zip:	
Project Location:		Phone #:	
Sampler Name: Jose Quezada		Fax #:	
FOR LAB USE ONLY			
Lab I.D. H003462	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS	DATE TIME
1	SP10 Surface	5	9/16 10:38
2	SP10 1'	5	10:40
3	SP10 2'	5	10:42
4	SP10 3'	5	10:44
5	SP10 4'	5	10:46
6	SP20 Surface	5	10:51
7	SP20 1'	5	10:53
8	SP20 2'	5	10:55
9	SP20 3'	5	10:57
10	SP20 4'	5	10:59

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Reinquinished By: Jose Quezada
Date: 9/16/20
Time: 12:22pm
Received By: Munira Chakraborty
Date: 9/16/20
Time:

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other:
Observed Temp. °C: 8.3
Corrected Temp. °C:
Sample Condition: Cool Intact
 Yes No
 Yes No
CHECKED BY: (Initials) JO
Turnaround Time: Standard Rush
Thermometer ID #: 497-72-#113
Correction Factor: +0.46
9/16/20
 Bacteria (only) Sample Condition
 Cool Intact Observed Temp. °C
 Yes No No No
Corrected Temp. °C:

REMARKS:
 5:10:01 Results
 Brought to Lab for analysis

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

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



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

October 07, 2020

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: TURNER BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/01/20 12:26.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/01/2020	Sampling Date:	10/01/2020
Reported:	10/07/2020	Sampling Type:	Soil
Project Name:	TURNER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	WATER TRANSFER LINE	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: HC 1 (H002610-01)

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	10/03/2020	ND	2.13	107	2.00	2.86	
Toluene*	<0.050	0.050	10/03/2020	ND	2.14	107	2.00	2.35	
Ethylbenzene*	<0.050	0.050	10/03/2020	ND	2.11	106	2.00	2.19	
Total Xylenes*	<0.150	0.150	10/03/2020	ND	6.50	108	6.00	2.15	
Total BTEX	<0.300	0.300	10/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/02/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2020	ND	210	105	200	6.29	
DRO >C10-C28*	<10.0	10.0	10/02/2020	ND	213	106	200	8.52	
EXT DRO >C28-C36	<10.0	10.0	10/02/2020	ND					

Surrogate: 1-Chlorooctane 108 % 44.3-144

Surrogate: 1-Chlorooctadecane 119 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/01/2020	Sampling Date:	10/01/2020
Reported:	10/07/2020	Sampling Type:	Soil
Project Name:	TURNER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	WATER TRANSFER LINE	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: HC 2 (H002610-02)

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	10/03/2020	ND	2.13	107	2.00	2.86	
Toluene*	<0.050	0.050	10/03/2020	ND	2.14	107	2.00	2.35	
Ethylbenzene*	<0.050	0.050	10/03/2020	ND	2.11	106	2.00	2.19	
Total Xylenes*	<0.150	0.150	10/03/2020	ND	6.50	108	6.00	2.15	
Total BTEX	<0.300	0.300	10/03/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/02/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2020	ND	220	110	200	8.64	
DRO >C10-C28*	<10.0	10.0	10/02/2020	ND	214	107	200	8.07	
EXT DRO >C28-C36	<10.0	10.0	10/02/2020	ND					

Surrogate: 1-Chlorooctane 95.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/01/2020	Sampling Date:	10/01/2020
Reported:	10/07/2020	Sampling Type:	Soil
Project Name:	TURNER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	WATER TRANSFER LINE	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: HC 3 (H002610-03)

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	10/03/2020	ND	2.13	107	2.00	2.86	
Toluene*	<0.050	0.050	10/03/2020	ND	2.14	107	2.00	2.35	
Ethylbenzene*	<0.050	0.050	10/03/2020	ND	2.11	106	2.00	2.19	
Total Xylenes*	<0.150	0.150	10/03/2020	ND	6.50	108	6.00	2.15	
Total BTEX	<0.300	0.300	10/03/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/02/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2020	ND	220	110	200	8.64	
DRO >C10-C28*	<10.0	10.0	10/02/2020	ND	214	107	200	8.07	
EXT DRO >C28-C36	<10.0	10.0	10/02/2020	ND					

Surrogate: 1-Chlorooctane 96.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.9 % 42.2-156

Cardinal Laboratories

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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:	10/01/2020	Sampling Date:	10/01/2020
Reported:	10/07/2020	Sampling Type:	Soil
Project Name:	TURNER BATTERY	Sampling Condition:	Cool & Intact
Project Number:	WATER TRANSFER LINE	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: HC 4 (H002610-04)

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	10/03/2020	ND	2.13	107	2.00	2.86	
Toluene*	<0.050	0.050	10/03/2020	ND	2.14	107	2.00	2.35	
Ethylbenzene*	<0.050	0.050	10/03/2020	ND	2.11	106	2.00	2.19	
Total Xylenes*	<0.150	0.150	10/03/2020	ND	6.50	108	6.00	2.15	
Total BTEX	<0.300	0.300	10/03/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/02/2020	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/02/2020	ND	220	110	200	8.64	
DRO >C10-C28*	<10.0	10.0	10/02/2020	ND	214	107	200	8.07	
EXT DRO >C28-C36	<10.0	10.0	10/02/2020	ND					

Surrogate: 1-Chlorooctane 99.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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Celey D. Keene

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

BILL TO

ANALYSIS REQUEST

Company Name: APACHE CORPORATION
 Project Manager: BALCE BAKER
 Address: _____ State: _____ Zip: _____
 City: _____ Attn: _____
 Phone #: _____ Fax #: _____
 Project #: _____ Project Owner: _____
 Project Location: Turner Bakery Water Tanks L1 City: _____ State: _____ Zip: _____
 Project Name: _____ Phone #: _____ Fax #: _____
 Sampler Name: Jeff Brown

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	CL	BTEX	EXT. TPH	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:						ICE / COOL
<u>H002610</u>	<u>HC2</u>	<u>C</u>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>						<u>10/1/20</u>	<u>1128</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<u>HC2</u>	<u>C</u>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>						<u>10/1/20</u>	<u>1130</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<u>HC3</u>	<u>C</u>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>						<u>10/1/20</u>	<u>1132</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<u>HC4</u>	<u>C</u>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>						<u>10/1/20</u>	<u>1134</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Relinquished By: Jeff Brown Date: 10/1/20 Received By: Joelle Hudson Date: 1/22/21
 Relinquished By: _____ Date: _____ Received By: _____ Date: _____

Delivered By: (Circle One) Observed Temp. °C: 2.0 Sample Condition: Intact Cool Yes No No No
 Corrected Temp. °C: _____

Turnaround Time: _____ Standard Rush
 Thermometer ID #113 Correction Factor None Bacteria (only) Sample Condition Observed Temp. °C Corrected Temp. °C

REMARKS: _____

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

FOR KITTEN: 11/18/2020

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

Sept 16, 2020 Apache Turner Argo Flow Line
Soil Delimitation

211 ✓
158 ✓
750 x
375 ✓
186 ✓
344 ✓

Cam 26-35-19
WA #24

295 ✓
2586 x
242 ✓
213 ✓
1006 x
294 ✓
826 ✓

Sample ID	Depth (ft)	Moisture (%)	Calculation	Result
SP1 Surface	32.463693	103.152332		
10.9 / 30.3		2.52	2.77 =	7.431 x Lab
SP1 @ 1'	10.0 / 30.3	0.85	3.03 =	2574 x Lab
SP1 @ 2'	10.3 / 30.4	0.68	2.97 =	2,018 x Lab
SP1 @ 3'	10.6 / 30.0	0.64	2.83 =	1,810 x Lab
SP1 @ 4'	10.1 / 30.3	0.13	3.00 =	389 - Lab
SP1 @ 5'	10.4 / 30.1	0.10	2.83 =	282 ✓
SP1 @ 6'	10.3 / 30.4		2.95 =	
SP2 Surface	32.463807	103.152128		
10.2 / 30.1		1.11	2.95 =	3,273 x Lab
SP2 @ 1'	10.4 / 30.2	0.90	2.90 =	2,609 x Lab
SP2 @ 2'	10.2 / 30.5	1.08	2.99 =	3,228 x Lab
SP2 @ 3'	10.3 / 30.0	1.0	2.91 =	2,909 x Lab
SP2 @ 4'	10.4 / 30.1	0.62	2.89 =	1,791 x Lab
SP2 @ 5'	10.3 / 30.4	0.40	2.95 =	1,179 x
SP2 @ 6'	10.2 / 30.3	0.48	2.97 =	1,425 x
SP2 @ 7'	10.1 / 30.2	0.42	2.99 =	1,255 x
SP2 @ 8'	10.2 / 30.0	0.3	2.94 =	881 x
SP2 @ 9'	10.0 / 30.3	0.20	3.03 =	605 x
SP2 @ 10'	10.0 / 30.1	0.16	3.01 =	491 ✓

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 11250

CONDITIONS OF APPROVAL

Operator: #1000 APACHE CORPORATION Midland, TX79705		303 Veterans Airpark Ln	OGRID: 873	Action Number: 11250	Action Type: C-141
OCD Reviewer ceads			Condition None		