



303 Veterans Airpark Lane Midland, TX 79705

Closure Report

July 23, 2021

Re: H Corrigan #014

Case: nAPP2112639992

On 4/24/2021 a release occurred due to the flow lines to the H Corrigan 12, 14, 18, 21 were damaged due to a fire caused by a resident burning trash. The release (GPS: 32.4271965, -103.1624374) is located south of Eunice, New Mexico in unit letter A section 4 township 22S range 37E. A groundwater survey was conducted utilizing NMOSE wells of record. The nearest two wells of record suggest the groundwater depth below the release to be 100 feet below ground surface.

On 5/3/2021 surface samples were collected along the 5 areas where the lines were split into. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. Laboratory results indicated that SP 1 was above table one standards for TPH and above reclamation standards for chlorides. SP 5 was above reclamation standards for TPH. On 5/5/2021 one foot samples were collected at SP 1 and SP 5. All samples collected were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX.

SP 1 was excavated to a depth of 2 feet and SP 5 was excavated to a depth of 1 foot. On 6/25/2021 final 5 point bottom and wall samples were collected from both excavations not exceeding 200 square feet. All samples were submitted to a commercial laboratory for analysis of chloride, TPH, and BTEX. All excavated material was hauled to an OCD approved facility. The excavation was backfilled with clean imported top soil to ground surface and contoured to the surrounding area. The disturbed area will be reseeded in accordance with the surface landowner.

Apache Corporation has completed remediation and respectfully request closure of event nAPP2112639992.

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

Submitted by;

Bruce Baker

Environmental Technician

larry.baker@apachecorp.com

Cell# 432-631-6982

Incident ID	
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>100</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.

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: Larry Baker Title: Environmental Tech SR.
 Signature: *Larry Baker* Date: 7/23/2021
 email: larry.baker@apachecorp.com Telephone: 432-631-6982

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Larry Baker Title: Environmental Tech SR.
 Signature: *Larry Baker* Date: 7/23/2021
 email: larry.baker@apachecorp.com Telephone: 432-631-6982

OCD Only

Received by: Chad Hensley Date: 08/26/2021

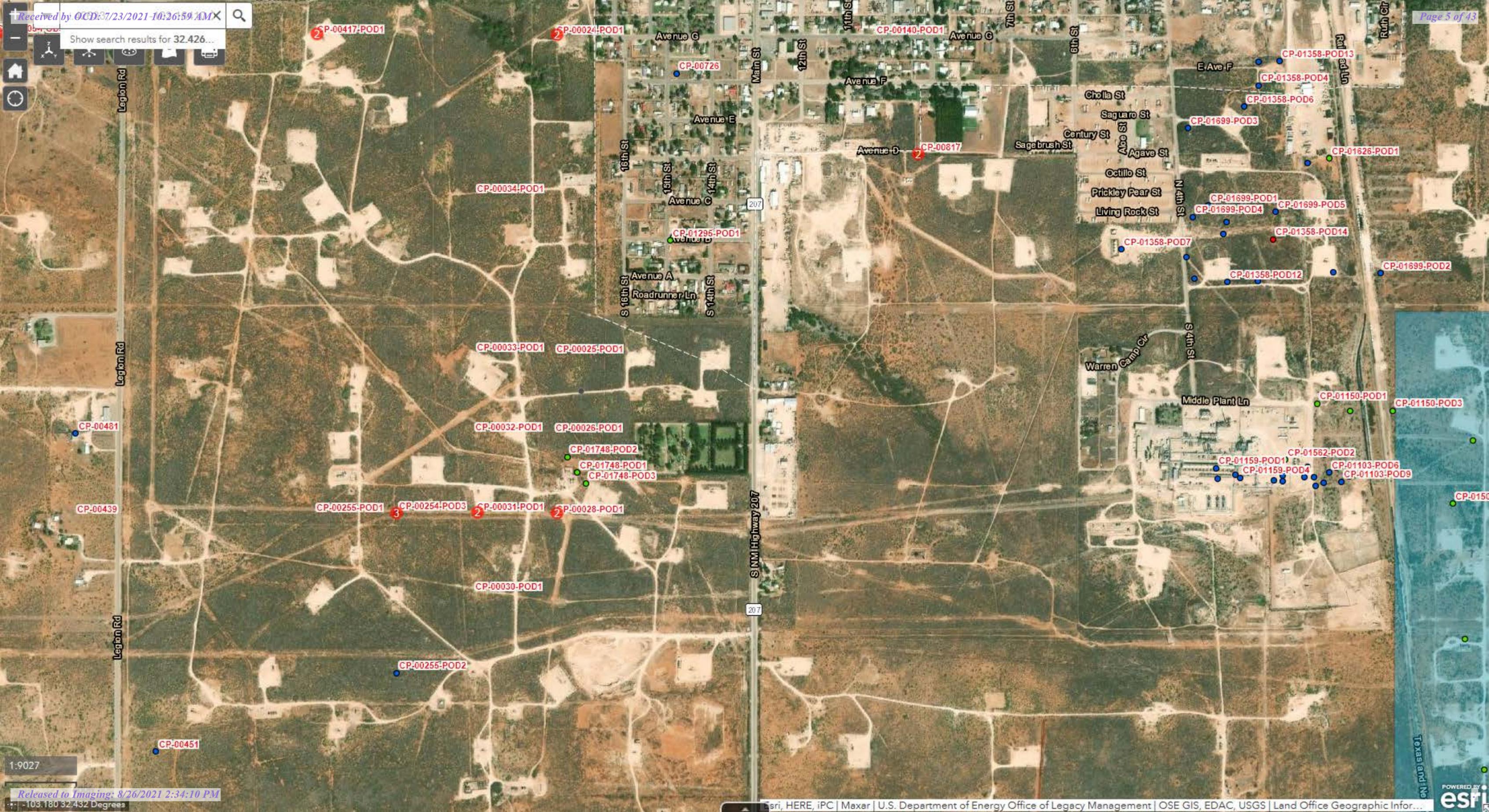
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: *Chad Hensley* Date: 08/26/2021
 Printed Name: Chad Hensley Title: Environmental Specialist Advanced

Received by OCD: 8/23/2021 10:26:59 AMX

Show search results for 32.426...

Map navigation controls including a search bar, home button, and refresh button.



1:9027

Released to Imaging: 8/26/2021 2:34:10 PM

-103.180 32.432 Degrees





New Mexico Office of the State Engineer Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
Well Tag	POD Number	(quarters are smallest to largest)	(NAD83 UTM in meters)						
		Q64 Q16 Q4 Sec Tws Rng	X	Y					
	CP 00255 POD2	2 2 3 04 22S 37E	672166	3588458*					

Driller License:	208	Driller Company:	VAN NOY, W.L.
Driller Name:	VAN NOY, W.L.		
Drill Start Date:	01/13/1975	Drill Finish Date:	01/27/1975
Log File Date:	02/05/1975	PCW Rcv Date:	02/17/1975
Pump Type:	SUBMER	Pipe Discharge Size:	Estimated Yield: 20 GPM
Casing Size:	8.00	Depth Well:	157 feet
		Depth Water:	120 feet

Water Bearing Stratifications:	Top	Bottom	Description	
	130	150	Other/Unknown	

Casing Perforations:	Top	Bottom	
	92	152	

*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.

7/23/21 9:12 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						
Well Tag	POD Number	(quarters are smallest to largest)	(NAD83 UTM in meters)					
		Q64 Q16 Q4 Sec Tws Rng	X	Y				
	CP 00726	2 4 33 21S 37E	672844	3589980*				

Driller License:	208	Driller Company:	VAN NOY, W.L.
Driller Name:	VAN NOY, W.L.		
Drill Start Date:	02/23/1988	Drill Finish Date:	02/23/1988
Log File Date:	02/26/1988	PCW Rcv Date:	
Pump Type:		Pipe Discharge Size:	
Casing Size:	5.50	Depth Well:	125 feet
		Depth Water:	100 feet

Water Bearing Stratifications:	Top	Bottom	Description	
	100	125	Sandstone/Gravel/Conglomerate	

Casing Perforations:	Top	Bottom	
	106	121	

*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.

7/23/21 9:13 AM

POINT OF DIVERSION SUMMARY

Substa

Radius

Buffer Size (miles) : 0.5

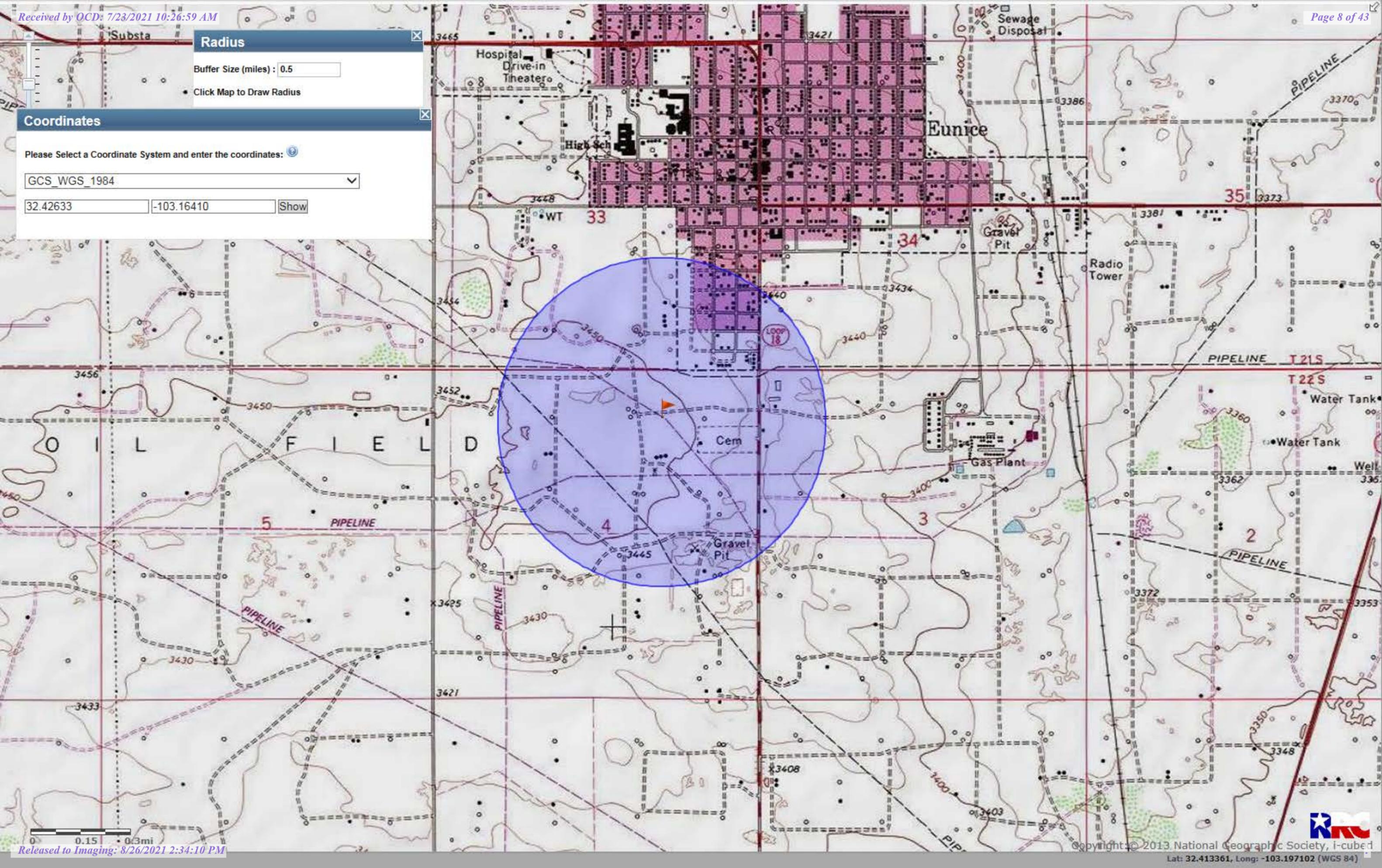
Click Map to Draw Radius

Coordinates

Please Select a Coordinate System and enter the coordinates:

GCS_WGS_1984

32.42633 -103.16410 Show





SP3

SP2

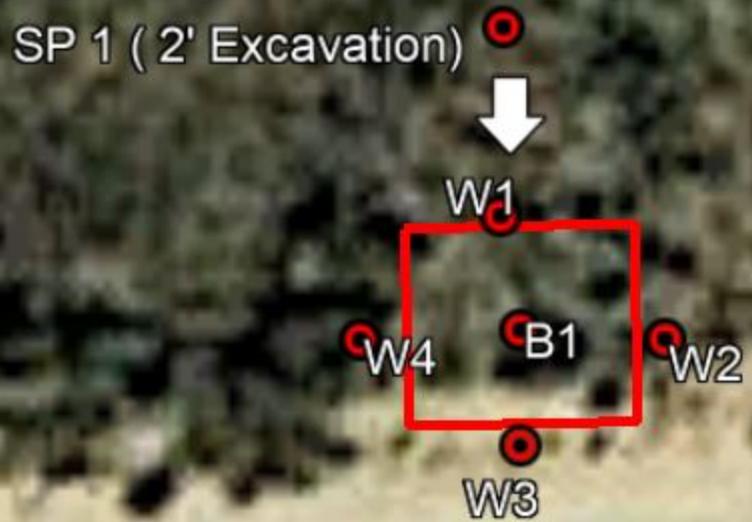
SP1

SP4

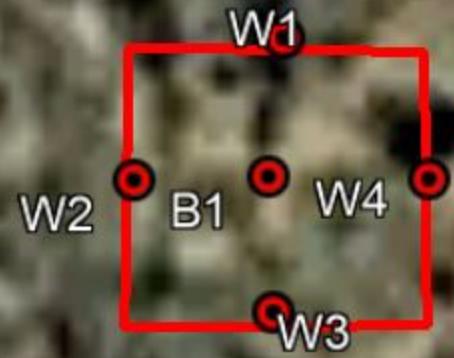
SP5

144 ft

Google Earth



SP 5 (1' Excavation)



Delineation Samples

Sample Date	Sample ID	Depth	Chloride Lab	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
5/3/2021	SP1 @ Surface	S	4,080	0.052	1.78	4.5	12.1	18.4	380	11100	2650	32.42633, -103.16410
5/5/2021	SP 1	1'	1,170	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	26.6	<10.0	
5/3/2021	SP2 @ Surface	S	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	12.1	<10.0	32.43801, -103.16743
5/3/2021	SP3 @ Surface	S	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.42631, -103.16508
5/3/2021	SP4 @ Surface	S	<16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	32.42599, -103.16525
5/3/2021	SP5 @ Surface	S	384	<0.050	0.06	<0.050	<0.150	<0.300	<10.0	602	100	32.42561, -103.16561
5/5/2021	SP5	1'	96	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	

Remediation Samples

Sample Date	Sample ID	Depth	Chloride Lab	Benzene	Toulene	Ethybenzene	Total Xylenes	Total BTEX	GRO	DRO	EXT DRO	GPS Coordinates
SP 1 Excavation Final Sample @ 2'												
6/25/2021	B1 @ 2'	2'	176	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	27.3	21	32.42633, -103.16410
	W1	0-2'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
	W2	0-2'	128	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
	W3	0'2'	192	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
	W4	0-2'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
SP 5 Excavation Final Sample @ 1'												
6/25/2021	B1 @ 1'	1'	48	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	31.6	11.2	32.42561, -103.16561
	W1	0-1'	16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
	W2	0-1'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
	W3	0-1'	112	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	
	W4	0-1'	32	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	



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

May 06, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: CORRIGAN FLOW LINES

Enclosed are the results of analyses for samples received by the laboratory on 05/04/21 16:00.

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:	05/04/2021	Sampling Date:	05/03/2021
Reported:	05/06/2021	Sampling Type:	Soil
Project Name:	CORRIGAN FLOW LINES	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ SURFACE (H211138-01)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.052	0.050	05/06/2021	ND	2.00	100	2.00	3.30	
Toluene*	1.78	0.050	05/06/2021	ND	2.09	104	2.00	2.23	
Ethylbenzene*	4.50	0.050	05/06/2021	ND	2.06	103	2.00	2.06	
Total Xylenes*	12.1	0.150	05/06/2021	ND	5.95	99.2	6.00	0.827	
Total BTEX	18.4	0.300	05/06/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 257 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4080	16.0	05/06/2021	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	380	100	05/05/2021	ND	185	92.3	200	0.472	
DRO >C10-C28*	11100	100	05/05/2021	ND	188	93.9	200	0.848	
EXT DRO >C28-C36	2650	100	05/05/2021	ND					

Surrogate: 1-Chlorooctane 162 % 44.3-133

Surrogate: 1-Chlorooctadecane 407 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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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:	05/04/2021	Sampling Date:	05/03/2021
Reported:	05/06/2021	Sampling Type:	Soil
Project Name:	CORRIGAN FLOW LINES	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 2 @ SURFACE (H211138-02)

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	05/05/2021	ND	2.00	100	2.00	3.30	
Toluene*	<0.050	0.050	05/05/2021	ND	2.09	104	2.00	2.23	
Ethylbenzene*	<0.050	0.050	05/05/2021	ND	2.06	103	2.00	2.06	
Total Xylenes*	<0.150	0.150	05/05/2021	ND	5.95	99.2	6.00	0.827	
Total BTEX	<0.300	0.300	05/05/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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	05/06/2021	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2021	ND	185	92.3	200	0.472	
DRO >C10-C28*	12.1	10.0	05/05/2021	ND	188	93.9	200	0.848	
EXT DRO >C28-C36	<10.0	10.0	05/05/2021	ND					

Surrogate: 1-Chlorooctane 92.5 % 44.3-133

Surrogate: 1-Chlorooctadecane 93.0 % 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:	05/04/2021	Sampling Date:	05/03/2021
Reported:	05/06/2021	Sampling Type:	Soil
Project Name:	CORRIGAN FLOW LINES	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ SURFACE (H211138-03)

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	05/05/2021	ND	2.00	100	2.00	3.30		
Toluene*	<0.050	0.050	05/05/2021	ND	2.09	104	2.00	2.23		
Ethylbenzene*	<0.050	0.050	05/05/2021	ND	2.06	103	2.00	2.06		
Total Xylenes*	<0.150	0.150	05/05/2021	ND	5.95	99.2	6.00	0.827		
Total BTEX	<0.300	0.300	05/05/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 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	05/06/2021	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/05/2021	ND	185	92.3	200	0.472		
DRO >C10-C28*	<10.0	10.0	05/05/2021	ND	188	93.9	200	0.848		
EXT DRO >C28-C36	<10.0	10.0	05/05/2021	ND						

Surrogate: 1-Chlorooctane 89.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.0 % 38.9-142

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:	05/04/2021	Sampling Date:	05/03/2021
Reported:	05/06/2021	Sampling Type:	Soil
Project Name:	CORRIGAN FLOW LINES	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ SURFACE (H211138-04)

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	05/05/2021	ND	2.00	100	2.00	3.30	
Toluene*	<0.050	0.050	05/05/2021	ND	2.09	104	2.00	2.23	
Ethylbenzene*	<0.050	0.050	05/05/2021	ND	2.06	103	2.00	2.06	
Total Xylenes*	<0.150	0.150	05/05/2021	ND	5.95	99.2	6.00	0.827	
Total BTEX	<0.300	0.300	05/05/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 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	05/06/2021	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2021	ND	185	92.3	200	0.472	
DRO >C10-C28*	<10.0	10.0	05/05/2021	ND	188	93.9	200	0.848	
EXT DRO >C28-C36	<10.0	10.0	05/05/2021	ND					

Surrogate: 1-Chlorooctane 94.2 % 44.3-133

Surrogate: 1-Chlorooctadecane 94.4 % 38.9-142

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:	05/04/2021	Sampling Date:	05/03/2021
Reported:	05/06/2021	Sampling Type:	Soil
Project Name:	CORRIGAN FLOW LINES	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ SURFACE (H211138-05)

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	05/05/2021	ND	2.00	100	2.00	3.30	
Toluene*	0.060	0.050	05/05/2021	ND	2.09	104	2.00	2.23	
Ethylbenzene*	<0.050	0.050	05/05/2021	ND	2.06	103	2.00	2.06	
Total Xylenes*	<0.150	0.150	05/05/2021	ND	5.95	99.2	6.00	0.827	
Total BTEX	<0.300	0.300	05/05/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	384	16.0	05/06/2021	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/05/2021	ND	185	92.3	200	0.472	
DRO >C10-C28*	602	10.0	05/05/2021	ND	188	93.9	200	0.848	
EXT DRO >C28-C36	100	10.0	05/05/2021	ND					

Surrogate: 1-Chlorooctane 95.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 102 % 38.9-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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

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: <i>Apache Corporation</i> Project Manager: <i>Bruce Baker</i>		P.O. #: Company: Attn: Address: City: State: Zip:	
Address: City: State: Zip:		Project Owner: City: State: Zip:	
Phone #: <i>49</i> Fax #:		Project Location: <i>Carrigan Flow Lines</i> State: Zip:	
Project #:		Project Name: <i>Carrigan Flow Lines</i> State: Zip:	
Project Location: <i>Carrigan Flow Lines</i> State: Zip:		Project Name: <i>Carrigan Flow Lines</i> State: Zip:	
Sampler Name: <i>Left-Beam</i> FOR LAB USE ONLY		Project Name: <i>Carrigan Flow Lines</i> State: Zip:	
Lab I.D. <i>4211138</i>		Sample I.D.	
1 <i>SP1 @ Surface</i> 2 <i>SP2 @ Surface</i> 3 <i>SP3 @ Surface</i> 4 <i>SP4 @ Surface</i> 5 <i>SP5 @ Surface</i>		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	
DATE TIME		DATE TIME	
5/3/21 5/3/21		CL- BTEX EXT. TPH	
Relinquished By: <i>[Signature]</i> Date: <i>5/1/21</i> Time: <i>1200</i>		Received By: <i>[Signature]</i> Date: <i>5/3/21</i> Time:	
Delivered By: (Circle One) UPS - Bus - Other:		Observed Temp. °C <i>49</i> Corrected Temp. °C	
Sample Condition Cool Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: <i>[Signature]</i> (Initials)	
Turnaround Time: Thermometer ID #113 Correction Factor None		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address:	
Standard <input checked="" type="checkbox"/> Add'l Phone #: Bacteria (only) Sample Condition Cool Intact Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Corrected Temp. °C	



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

May 11, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: CORRIGAN FLOW LINES

Enclosed are the results of analyses for samples received by the laboratory on 05/05/21 16:42.

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 "Mike Snyder".

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:	05/05/2021	Sampling Date:	05/05/2021
Reported:	05/11/2021	Sampling Type:	Soil
Project Name:	CORRIGAN FLOW LINES	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 1' (H211162-01)

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	05/07/2021	ND	2.12	106	2.00	2.06	
Toluene*	<0.050	0.050	05/07/2021	ND	2.09	105	2.00	1.70	
Ethylbenzene*	<0.050	0.050	05/07/2021	ND	2.05	102	2.00	1.77	
Total Xylenes*	<0.150	0.150	05/07/2021	ND	6.05	101	6.00	1.52	
Total BTEX	<0.300	0.300	05/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	05/07/2021	ND	384	96.0	400	4.08	

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	05/07/2021	ND	206	103	200	0.125	
DRO >C10-C28*	26.6	10.0	05/07/2021	ND	214	107	200	1.41	
EXT DRO >C28-C36	<10.0	10.0	05/07/2021	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-133

Surrogate: 1-Chlorooctadecane 110 % 38.9-142

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:	05/05/2021	Sampling Date:	05/05/2021
Reported:	05/11/2021	Sampling Type:	Soil
Project Name:	CORRIGAN FLOW LINES	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ 1' (H211162-02)

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	05/07/2021	ND	2.12	106	2.00	2.06	
Toluene*	<0.050	0.050	05/07/2021	ND	2.09	105	2.00	1.70	
Ethylbenzene*	<0.050	0.050	05/07/2021	ND	2.05	102	2.00	1.77	
Total Xylenes*	<0.150	0.150	05/07/2021	ND	6.05	101	6.00	1.52	
Total BTEX	<0.300	0.300	05/07/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/07/2021	ND	384	96.0	400	4.08	

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	05/07/2021	ND	206	103	200	0.125	
DRO >C10-C28*	<10.0	10.0	05/07/2021	ND	214	107	200	1.41	
EXT DRO >C28-C36	<10.0	10.0	05/07/2021	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-133

Surrogate: 1-Chlorooctadecane 105 % 38.9-142

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

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

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Mike Snyder".

Mike Snyder For 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. #:		BILL TO		ANALYSIS REQUEST													
Project Manager: <u>Jeff Brown</u>		Company:																	
Address:		Attn:																	
City: <u>Hobbs</u>		Address:																	
State: <u>NM</u> Zip: <u>88240</u>		Phone #:																	
Project #: _____		City:																	
Project Name: _____		State:																	
Project Location: <u>Corrigion Flow line</u>		Phone #:																	
Sampler Name: <u>Jeff Brown</u>		Fax #:																	
FOR LAB USE ONLY																			
Lab I.D. <u>H211162</u>	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME											
	<u>1 SP1011</u>	<u>(G)</u>	<u>1</u>	GROUNDWATER			<u>5/5</u>	<u>2:30</u>	<u>X</u>	<u>C</u>									
	<u>2 SP5011</u>	<u>(G)</u>	<u>1</u>	WASTEWATER			<u>5/5</u>	<u>2:32</u>	<u>X</u>	<u>EXT TPH</u>									
				SOIL						<u>BTEX</u>									
				OIL															
				SLUDGE															
				OTHER:															
				ACID/BASE:															
				<u>(C) COOL</u>															
				OTHER:															

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Relinquished By: _____ Date: 5/5/21 Time: 4:42

Received By: Shirley Walker Date: _____ Time: _____

Delivered By: (Circle One) UPS Observed Temp. °C: 7.8 Corrected Temp. °C: _____

Sampler - UPS - Bus - Other: _____

Sample Condition: Intact Cool Yes No

Checked By: (Initials) AW

Turnaround Time: _____ Standard Rush Add'l Phone #: _____

Bacteria (only) Cool Intact Yes No

Sample Condition: _____ Observed Temp. °C: _____ Corrected Temp. °C: _____

Verbal Result: Yes No

All Results are emailed. Please provide Email address: _____

REMARKS: Samplet Storage to lab from field



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

June 29, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: CORRIGAN FLOW LINES

Enclosed are the results of analyses for samples received by the laboratory on 06/25/21 11:40.

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".

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:	06/25/2021	Sampling Date:	06/25/2021
Reported:	06/29/2021	Sampling Type:	Soil
Project Name:	CORRIGAN FLOW LINES	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 1 @ 2' (H211670-01)

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	06/28/2021	ND	1.90	95.1	2.00	3.09	
Toluene*	<0.050	0.050	06/28/2021	ND	1.98	99.2	2.00	1.35	
Ethylbenzene*	<0.050	0.050	06/28/2021	ND	1.90	95.2	2.00	1.25	
Total Xylenes*	<0.150	0.150	06/28/2021	ND	5.71	95.2	6.00	0.880	
Total BTEX	<0.300	0.300	06/28/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 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	176	16.0	06/28/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2021	ND	206	103	200	0.249	
DRO >C10-C28*	27.3	10.0	06/28/2021	ND	219	109	200	0.204	
EXT DRO >C28-C36	21.0	10.0	06/28/2021	ND					

Surrogate: 1-Chlorooctane 85.1 % 44.3-133

Surrogate: 1-Chlorooctadecane 87.4 % 38.9-142

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:	06/25/2021	Sampling Date:	06/25/2021
Reported:	06/29/2021	Sampling Type:	Soil
Project Name:	CORRIGAN FLOW LINES	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W1 (H211670-02)

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	06/28/2021	ND	1.90	95.1	2.00	3.09	
Toluene*	<0.050	0.050	06/28/2021	ND	1.98	99.2	2.00	1.35	
Ethylbenzene*	<0.050	0.050	06/28/2021	ND	1.90	95.2	2.00	1.25	
Total Xylenes*	<0.150	0.150	06/28/2021	ND	5.71	95.2	6.00	0.880	
Total BTEX	<0.300	0.300	06/28/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 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	06/28/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2021	ND	206	103	200	0.249	
DRO >C10-C28*	<10.0	10.0	06/28/2021	ND	219	109	200	0.204	
EXT DRO >C28-C36	<10.0	10.0	06/28/2021	ND					

Surrogate: 1-Chlorooctane 81.6 % 44.3-133

Surrogate: 1-Chlorooctadecane 82.1 % 38.9-142

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:	06/25/2021	Sampling Date:	06/25/2021
Reported:	06/29/2021	Sampling Type:	Soil
Project Name:	CORRIGAN FLOW LINES	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W2 (H211670-03)

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	06/28/2021	ND	1.90	95.1	2.00	3.09	
Toluene*	<0.050	0.050	06/28/2021	ND	1.98	99.2	2.00	1.35	
Ethylbenzene*	<0.050	0.050	06/28/2021	ND	1.90	95.2	2.00	1.25	
Total Xylenes*	<0.150	0.150	06/28/2021	ND	5.71	95.2	6.00	0.880	
Total BTEX	<0.300	0.300	06/28/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	128	16.0	06/28/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2021	ND	206	103	200	0.249	
DRO >C10-C28*	<10.0	10.0	06/28/2021	ND	219	109	200	0.204	
EXT DRO >C28-C36	<10.0	10.0	06/28/2021	ND					

Surrogate: 1-Chlorooctane 84.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.4 % 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:	06/25/2021	Sampling Date:	06/25/2021
Reported:	06/29/2021	Sampling Type:	Soil
Project Name:	CORRIGAN FLOW LINES	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W3 (H211670-04)

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	06/28/2021	ND	1.90	95.1	2.00	3.09	
Toluene*	<0.050	0.050	06/28/2021	ND	1.98	99.2	2.00	1.35	
Ethylbenzene*	<0.050	0.050	06/28/2021	ND	1.90	95.2	2.00	1.25	
Total Xylenes*	<0.150	0.150	06/28/2021	ND	5.71	95.2	6.00	0.880	
Total BTEX	<0.300	0.300	06/28/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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	192	16.0	06/28/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2021	ND	206	103	200	0.249	
DRO >C10-C28*	<10.0	10.0	06/28/2021	ND	219	109	200	0.204	
EXT DRO >C28-C36	<10.0	10.0	06/28/2021	ND					

Surrogate: 1-Chlorooctane 81.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 81.4 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/25/2021	Sampling Date:	06/25/2021
Reported:	06/29/2021	Sampling Type:	Soil
Project Name:	CORRIGAN FLOW LINES	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W4 (H211670-05)

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	06/28/2021	ND	1.90	95.1	2.00	3.09	
Toluene*	<0.050	0.050	06/28/2021	ND	1.98	99.2	2.00	1.35	
Ethylbenzene*	<0.050	0.050	06/28/2021	ND	1.90	95.2	2.00	1.25	
Total Xylenes*	<0.150	0.150	06/28/2021	ND	5.71	95.2	6.00	0.880	
Total BTEX	<0.300	0.300	06/28/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 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	06/28/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2021	ND	206	103	200	0.249	
DRO >C10-C28*	<10.0	10.0	06/28/2021	ND	219	109	200	0.204	
EXT DRO >C28-C36	<10.0	10.0	06/28/2021	ND					

Surrogate: 1-Chlorooctane 85.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 86.2 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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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: <i>Apache Corporation</i> Project Manager: <i>Bruce Baker</i>		P.O. #: Company: Attn: Address: City: State: Zip:		BILL TO		ANALYSIS REQUEST	
Address: City: State: Zip:		Phone #: Fax #: Project Owner:		Project Name: <i>Corigan Flow Lines</i> Project Location: <i>Corigan Flow Lines</i>		State: Zip: Phone #: Fax #:	
Project Name: Project Location:		Project Name: Project Location:		Project Name: Project Location:		Project Name: Project Location:	
Sampler Name: <i>Jeff Swann</i>		FOR LAB USE ONLY		(G)RAB OR (C)OMP.		# CONTAINERS	
Lab I.D.		Sample I.D.		MATRIX		PRESERV.	
Hall 70		BL @ 2'		GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		ACID/BASE: ICE / COOL OTHER:	
1 2 3 4 5		W1 W2 W3 W4		✓ ✓ ✓ ✓ ✓		DATE TIME	
6/15/21		6/15/21		CL- BTEX EXT. TPH		✓ ✓ ✓ ✓ ✓	
Relinquished By: <i>Jeff Swann</i>		Received By: <i>Juanita White</i>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address:		REMARKS:	
Date: <i>6/15/21</i> Time: <i>11:40</i>		Date: Time:		Turnaround Time: <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush Thermometer ID #113 Correction Factor None		Bacteria (only) <input checked="" type="checkbox"/> Sample Condition Cool Intact <input type="checkbox"/> Observed Temp. °C Yes <input type="checkbox"/> No <input type="checkbox"/> Corrected Temp. °C	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C: <i>38</i> Corrected Temp. °C:		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Checked By: (Initials) <i>JS</i>		Corrected Temp. °C:	

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



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

June 29, 2021

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: CORRIGAN FLOW LINES

Enclosed are the results of analyses for samples received by the laboratory on 06/25/21 11:40.

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".

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:	06/25/2021	Sampling Date:	06/25/2021
Reported:	06/29/2021	Sampling Type:	Soil
Project Name:	CORRIGAN FLOW LINES	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: B 1 @ 1' (H211671-01)

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	06/28/2021	ND	1.90	95.1	2.00	3.09	
Toluene*	<0.050	0.050	06/28/2021	ND	1.98	99.2	2.00	1.35	
Ethylbenzene*	<0.050	0.050	06/28/2021	ND	1.90	95.2	2.00	1.25	
Total Xylenes*	<0.150	0.150	06/28/2021	ND	5.71	95.2	6.00	0.880	
Total BTEX	<0.300	0.300	06/28/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	06/28/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2021	ND	206	103	200	0.249	
DRO >C10-C28*	31.6	10.0	06/28/2021	ND	219	109	200	0.204	
EXT DRO >C28-C36	11.2	10.0	06/28/2021	ND					

Surrogate: 1-Chlorooctane 86.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 88.4 % 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:	06/25/2021	Sampling Date:	06/25/2021
Reported:	06/29/2021	Sampling Type:	Soil
Project Name:	CORRIGAN FLOW LINES	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W1 (H211671-02)

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	06/28/2021	ND	1.90	95.1	2.00	3.09	
Toluene*	<0.050	0.050	06/28/2021	ND	1.98	99.2	2.00	1.35	
Ethylbenzene*	<0.050	0.050	06/28/2021	ND	1.90	95.2	2.00	1.25	
Total Xylenes*	<0.150	0.150	06/28/2021	ND	5.71	95.2	6.00	0.880	
Total BTEX	<0.300	0.300	06/28/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 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	06/28/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2021	ND	206	103	200	0.249	
DRO >C10-C28*	<10.0	10.0	06/28/2021	ND	219	109	200	0.204	
EXT DRO >C28-C36	<10.0	10.0	06/28/2021	ND					

Surrogate: 1-Chlorooctane 83.9 % 44.3-133

Surrogate: 1-Chlorooctadecane 84.2 % 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:	06/25/2021	Sampling Date:	06/25/2021
Reported:	06/29/2021	Sampling Type:	Soil
Project Name:	CORRIGAN FLOW LINES	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W2 (H211671-03)

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	06/28/2021	ND	1.91	95.7	2.00	7.43	
Toluene*	<0.050	0.050	06/28/2021	ND	1.85	92.6	2.00	7.06	
Ethylbenzene*	<0.050	0.050	06/28/2021	ND	1.78	88.8	2.00	7.53	
Total Xylenes*	<0.150	0.150	06/28/2021	ND	5.40	90.0	6.00	7.37	
Total BTEX	<0.300	0.300	06/28/2021	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	32.0	16.0	06/28/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2021	ND	206	103	200	0.249	
DRO >C10-C28*	<10.0	10.0	06/28/2021	ND	219	109	200	0.204	
EXT DRO >C28-C36	<10.0	10.0	06/28/2021	ND					

Surrogate: 1-Chlorooctane 89.0 % 44.3-133

Surrogate: 1-Chlorooctadecane 90.2 % 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:	06/25/2021	Sampling Date:	06/25/2021
Reported:	06/29/2021	Sampling Type:	Soil
Project Name:	CORRIGAN FLOW LINES	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W3 (H211671-04)

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	06/28/2021	ND	1.91	95.7	2.00	7.43	
Toluene*	<0.050	0.050	06/28/2021	ND	1.85	92.6	2.00	7.06	
Ethylbenzene*	<0.050	0.050	06/28/2021	ND	1.78	88.8	2.00	7.53	
Total Xylenes*	<0.150	0.150	06/28/2021	ND	5.40	90.0	6.00	7.37	
Total BTEX	<0.300	0.300	06/28/2021	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	112	16.0	06/28/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/28/2021	ND	206	103	200	0.249	
DRO >C10-C28*	<10.0	10.0	06/28/2021	ND	219	109	200	0.204	
EXT DRO >C28-C36	<10.0	10.0	06/28/2021	ND					

Surrogate: 1-Chlorooctane 85.3 % 44.3-133

Surrogate: 1-Chlorooctadecane 86.0 % 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:	06/25/2021	Sampling Date:	06/25/2021
Reported:	06/29/2021	Sampling Type:	Soil
Project Name:	CORRIGAN FLOW LINES	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: W4 (H211671-05)

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	06/28/2021	ND	1.91	95.7	2.00	7.43	
Toluene*	<0.050	0.050	06/28/2021	ND	1.85	92.6	2.00	7.06	
Ethylbenzene*	<0.050	0.050	06/28/2021	ND	1.78	88.8	2.00	7.53	
Total Xylenes*	<0.150	0.150	06/28/2021	ND	5.40	90.0	6.00	7.37	
Total BTEX	<0.300	0.300	06/28/2021	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	32.0	16.0	06/28/2021	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2021	ND	206	103	200	0.249	
DRO >C10-C28*	<10.0	10.0	06/29/2021	ND	219	109	200	0.204	
EXT DRO >C28-C36	<10.0	10.0	06/29/2021	ND					

Surrogate: 1-Chlorooctane 79.4 % 44.3-133

Surrogate: 1-Chlorooctadecane 79.6 % 38.9-142

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Celey D. Keene, Lab Director/Quality Manager



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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.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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

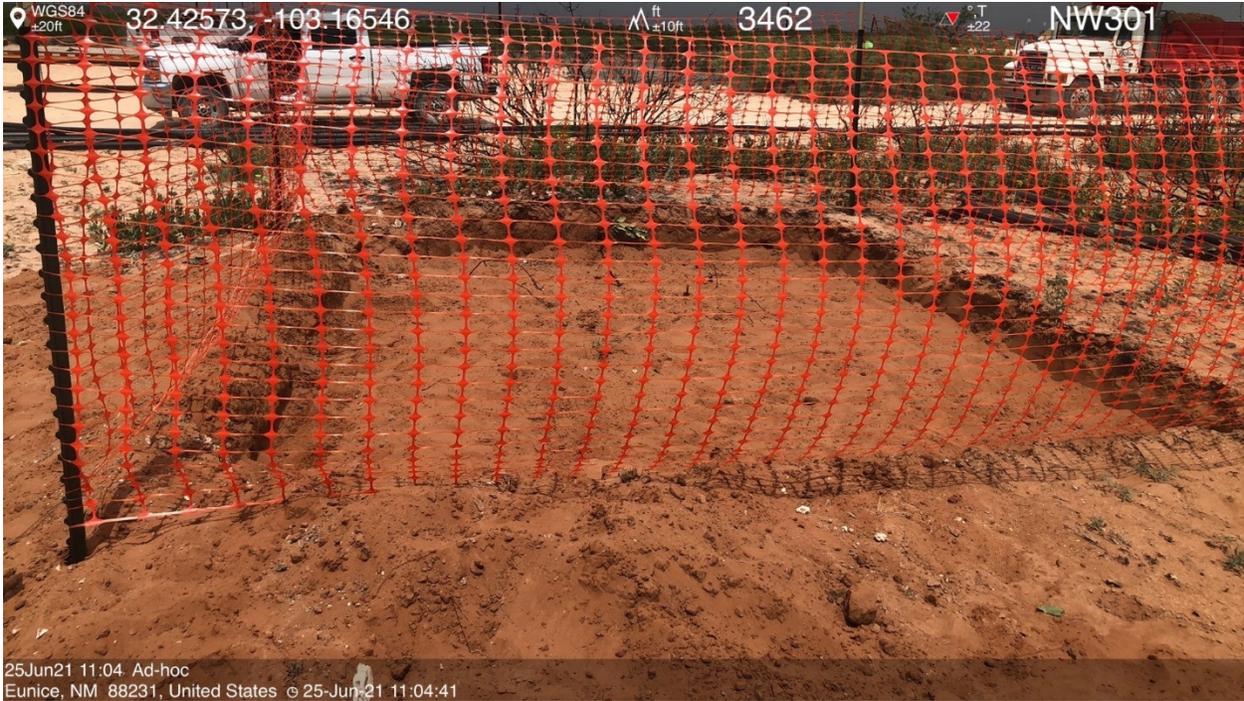


101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <i>Apache Corporation</i> Project Manager: <i>Bruce Baker</i>		P.O. #: _____ Company: _____ Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Project Owner: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____ Project #: _____ Project Name: <i>Corriean Flow Lines</i> Project Location: <i>Corriean Flow Lines</i> Sampler Name: <i>Jeff Brown</i>		BILL TO ANALYSIS REQUEST	
FOR LAB USE ONLY			
Lab I.D. <i>H211671</i>	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	MATRIX PRESERV. SAMPLING
1 <i>B1011'</i> 2 <i>W1</i> 3 <i>W2</i> 4 <i>W3</i> 5 <i>W4</i>	C C C C C	✓ ✓ ✓ ✓ ✓	DATE TIME CL- BTEX EXT. TPH
Relinquished By: <i>Jeff Brown</i> Date: <i>6/25/21</i> Time: <i>11:41</i>	Received By: <i>Jamara Clark</i> Date: _____ Time: _____	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address:	
REMARKS:			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C: <i>3.8</i> Corrected Temp. °C:	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Checked By: (Initials) <i>JE</i>	Turnaround Time: <i>Standard</i> <input checked="" type="checkbox"/> <i>Rush</i> Thermometer ID #113 Correction Factor None Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C Corrected Temp. °C

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



District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II
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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 37715

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 37715
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	8/26/2021