Received by OCD: 10/30/2019 2:08:55 PM Received by OCD: 10/30/2019 2:11:08 PM



DAVID FLATHER ENVIRONMENTAL SUPERVISOR DIRECT: (432) 818-1615 L MAIL DAVID FLATHER & APACHECORP.COM

October 29, 2019

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

RE: 1RP-2664 South Eunice Seven Rivers 402

Mr. Billings,

In compliance with 19.15.29.15(B) NMAC and the agreement submitted by Apache Corporation on November 8, 2018, Apache Corporation is submitting information related to closure for the release occurring June 29, 2010. Apache is respectfully submitting the closure report based on studies occurring in 2019 that demonstrate the site meeting the requirements of the agency. Unless further information is requested by NMOCD, Apache Corporation considers this release closed.

If there are any questions, please feel free to contact me by telephone at 432-818-1615 or by e-mail at David.Feather@ApacheCorp.com.

Sincerely,

David Feather

Environmental Supervisor

Apache Corporation - Permian Basin Region

Attachment: Closure Report Dated October 24, 2019



Bruce Baker

South Eunice Seven Rivers Transfer Line (SESRQU #402) Closure Report

API NO. 30-025-09159

1RP-11-10-2664

Release Date: 06/29/2010

U/L B, Section 35, Township 22S, Range 36E

Lea County, NM

10/24/19

Prepared By:



4024 Plains Hwy

Lovington, NM 88260

October 24, 2019

New Mexico Energy, Minerals, & Natural Resources
Oil Conservation Division, Environmental Bureau – District I
1625 N. French Dr.
Hobbs, NM 88240-9273

RE: TERMINATION REQUEST

Apache Corporation – South Eunice Seven Rivers Queen Unit Transfer Line (SESRQU #402)

U/L B, Section 35, Township 22S, Range 36E

API No. 30-025-09159

To Whom it May Concern,

Apache Corporation has retained Hungry Horse, LLC to address the potential environmental concerns at the site referenced above.

Background and Previous Work

The site had an accidental discharge of produced water associated with the SESRQU Transfer Line (South Eunice Seven Rivers Queen Unit #402) on June 29th, 2010. It was determined that external corrosion was found on the steel line. A pipe clamp was used to stop the leak to get the production back in service. It was determined that 1520bbls of produced water was released and due to the locality of the release, no fluids were recovered. At this time, Apache Corporation replaced 1.3 miles of line and replaced it with NUPI Polyline. Apache Corporation notified Larry Johnson of the NMOCD on June 29th, 2010 at approximately 2:15p.m.

The pasture area was immediately cleared of all vegetation and contaminated soil was hauled to Sundance Disposal. Once the line was removed and replaced remediation of the road and pasture began. Although the remediation was completed back in 2010, unfortunately documentation cannot be found.

Groundwater Information

According to the New Mexico Office of the State Engineer, the ground water depth at this site ranges from 55 to 4000'bgs. Below you will find the ground water information for the site as it is reported to the NMOSE:

E03808 POD1: 331' from site with 55'dgw CP00776 POD1: 921' from site with 4000'dgw CP00575: 1557' from site with 160'dgw

Hungry Horse used the depth of ground water found above as the basis of the Closure Criteria for Soils Impacted by a Release and is listed below for the new rule dated August 14th, 2018. The site was delineated based on the old rule criteria back in 2010 but when re-delineated by HH, the new rule was used. Below you will find the closure criteria for the South Eunice Seven Rivers Unit Transfer Line using the closest water well to the site, which is at 55'DGW:

Closure for	Soils impacted by a Releas	5e	
Depth	Constituent	Method	Limit
51' to 100'	Chloride	EPA 300.00 or SM4500 CL B	10,000 mg/kg
	TPH (GRO, DRO, MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Based on the condition of the site it was determined that the site had been remediated in 2010, with that being said further delineation took place to confirm prior remediation.

Delineation

Hungry Horse personnel began taking samples on September 10th, 2019. The horizontal soil samples were not tested in the field but delivered immediately to Cardinal Laboratories for analysis. The previously impacted area had sufficient vegetation on the edge of the lease road and no visual contamination was found throughout the site inspection. The site was delineated by use of hand auger due to buried lines in the area of the release. The impacted soil was sampled using 1' intervals. Below you will find the lab analysis confirmed by Cardinal Lab:

Sample ID	FT	BTEX	CHLORIDE	TPH
Center SP	1'	<0.300	48	<10
Center SP	2'	<0.300	16	<10
Center SP	3'	<0.300	<16	<10
North SP	1'	<0.300	<16	<10
North SP	21	<0.300	16	<10
West SP	1'	<0.300	<16	<10
West SP	2'	<0.300	<16	<10
West SP	3'	<0.300	16	<10
West SP	4'	<0.300	<16	<10
South SP	1'	<0.300	<16	<10
South SP	2'	<0.300	<16	<10
South SP	3'	<0.300	<16	<10
East SP	1'	<0.300	<16	<10
East SP	2'	<0.300	<16	<10

Conclusion

Based on the delineation conducted in 2019 of the release area and along with sufficient vegetation and no visual staining found during the site inspection, Apache Corporation respectfully requests closure of the regulatory file for this site.

Apache Corporation appreciates the opportunity to work with you on this project. Please Call Bruce Baker at 432-631-6982 if you have any questions or concerns.

Sincerely,

Vernon Black

Operations Manager/Owner

Hungry Horse, LLC.

4024 Plains Highway

Lovington, NM 88260

Cell (575) 390-1761

tjennings@hungry-horse.com

Attachments:

Initial C141

Site Map

Groundwater Information

Sample Data

Sample Map

Current Lab Analysis

AE Order Number Banner

Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.



App Number: pGRL1033432867

1RP - 2664 APACHE CORP

3/1/2016

Received by OCD: 10/30/2019 2:11:08 PM

District I State of New Mexico

1625 N. French Dr., Hobbs, NM 8210 Energy Minerals and Natural Resources

1301 W. Grand Avenue, Artesia, NM 88210

District III AUG 0 4 2010

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico

Energy Minerals and Natural Resources

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

						OPERA?	ГOR		🔯 Initi	al Report		Final Re
Name of C	ompany A	pache Corpo	ration			Contact N	latalie Gladden	1		· · · · · · · · · · · · · · · · · · ·		·····
Address P	O Box 184	9 Eunice, NI	M 88231				No. 575-390-4					
		Eunice Seve well SEU #4		Queen Unit		Facility Typ	e Water Flood	!				
Surface Ov	vner Deck	Estate		Mineral	Owner	NMOCD			Lease 1	No. 30-025	-09159)
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Unit Letter	Section	Township	Range	Feet from the	North	/South Line	Feet from the	East/V	West Line	County		
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			La	titude		Longitud	le					
				NA	TURE	OF RELI	EASE					
Type of Rele							Release 15-20b			Recovered 0		
Source of Re	elease Trans	ifer Line				Date and H	lour of Occurrent	ce		Hour of Dis 10 1156am	covery	
Was Immed	iate Notice (If YES, To			UNI 2 9/40	TO LIDUMIII		
		×	Yes [No 🗀 Not	Required	Larry John	son					
By Whom?							lour 06/29/2010					
Was a Water	rcourse Read		Yes ⊠	No		If YES, Vo	olume Impacting	the Wate	ercourse.			
If a Waterco	urse was Im	pacted, Descr	ibe Fully,	•								
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State of New Mexico Oil Conservation Division

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?	_55_ (ft bgs)
Did this release impact groundwater or surface water?	Yes V No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	Yes 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)?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	Yes 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?	Yes No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No
Are the lateral extents of the release overlying a subsurface mine?	Yes No
Are the lateral extents of the release overlying an unstable area such as karst geology?	Yes No
Are the lateral extents of the release within a 100-year floodplain?	Yes No
Did the release impact areas not on an exploration, development, production, or storage site?	Yes No

	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.	
	Data table of soil contaminant concentration data	
	Depth to water determination	
	Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release	M
PM	Boring or excavation logs	
1:08	Photographs including date and GIS information	8:5
		:4
2:1	Laboratory data including chain of custody	
0		
1		2
0/201	If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation	12/20
0/30/201	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	: 7/12/20
: 10/30/201	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	ing: 7/12/20
CD: 10/30/201	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.	aging: 7/12/20
OCD: 10/30/201	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.	Imaging: 7/12/20
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Received by OCD: 10/30/201	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.	Released to Imaging: 7/12/20

Form C-141 Page 6

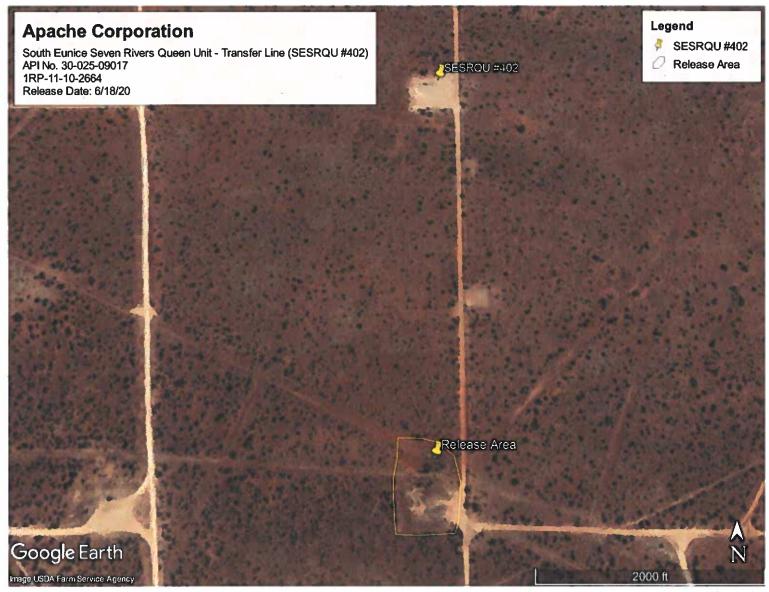
State of New Mexico Oil Conservation Division

Incident ID	nGRL1033432578
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 it	tems must be inc	luded 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 must be notified 2 days prior to liner inspection)	of the liner integ	rity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate OD)	C District office n	nust be notified 2 days prior to final sampling)
Description of remediation activities		7.
I hereby certify that the information given above is true and completed and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rehuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regularestore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification to the Coaccord	n release notifica fa C-141 report by mediate contamina C-141 report do ations. The responditions that exis	tions and perform corrective actions for releases which y the OCD does not relieve the operator of liability ation that pose a threat to groundwater, surface water, sees not relieve the operator of responsibility for nsible party acknowledges they must substantially ted prior to the release or their final land use in
Printed Name: Bruce Baker	Title: Env	ironmental 7ech SR.
	Date: 10 -	30-19
Signature: _ Bruce Baker @apackecorp.com	Telephone:	432-631-6982
chian. Towns. Deced & apache Corp. Corp.	relephone.	708-00. 01-2
OCD Only		
Received by:	Date:	
Closure approval by the OCD does not relieve the responsible party remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and	water, human hea	
Closure Approved by: Bradford Billings	Date:	07/12/2021
D 15 1 D:U:		Env.Spc.A
Printed Name: Diadioid Dillings	Title:	Епу. эрс. А
Printed Name: Diadioid Dillings	Title:	Епу.орс.А
Printed Name:	_ Title:	Епу. Эрс. А
Printed Name: Diadioid Dillings	Title:	Епу. Эрс. А
Printed Name: Diadioid Dillings	Title:	Епу. Эрс. А
Printed Name: Bradford Billings	Title:	Епу. Эрс. А





New Mexico Office of the State Engineer

Wells with Well Log Information

(A CLW#### in the POD suffix indicates the POD has been replaced water right

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

rters are I=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)

(NAD83 UTM in meters)

(in feet) 55 GARCIA RAYMOND 125

License

E 0380% POD1 CP 00776 PODI POD

666105 665474 331 @4-27/1983 #H/27/1983 05/03/1983 921 11/27/1992 01/02/1993 02/04/1993

4000 V & B DILLING COMPANY

Number 539

Record Count: 2

L'TMNAD83 Radius Search (in meters);

Easting (X): 666088 86

Northing (V1: 3581018 19

Radius: 1000

*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 for any particular purpose of the data

10/25/19 5:33 AM

Received by OCD: 10/30/2019 2:11:08 PM

WELLS WITH WELL LOG INFORMATION



New Mexico Office of the State Engineer

Wells with Well Log Information

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a	(R=POD been rep O=orph: C=the fi	laced. med.	(cruar)	icrs are 1=	NW 2=N	E 3=5	SW 4	(SE)								
water right	closed)	16 13		(quarters					(NAD8	3 UTM in meters)				(m fe	et)	
POD Number E 03808 POD1	Code	POD Subbasin E	County	Source Shallow	6116 1 d d d		Tws	Rng	X 666105	Y 3584686	Distance Start Date 331 04/27/1983	Finish Date 04/27/1983	Log File Date 05/03/1983		Depth Water Driller 55 GARCIA, RAYMOND	License Number 539
CP 00776 POD1		CP	LE	Shallow	4 1 3	26	225	36E	665474	3581705*	921 11/27/1992	01/02/1993	02/04/1993	4699	4000 V & B DILLING COMPAN	Y
<u>CP 00375</u>		CP	LE	Shallow	3 4	27	228	36E	664576	3581388*	1557 11/07/1978	11/13/1978	11/16/1978	198	160 ABBOTT, MURRELL	46
CP 01146 POD1		CP	LE			34	225	36E	664065	3580944	2025 04/30/2013	04/30/2013	05/31/2013	101	RAYMOND STRAUB	1478
CP 01146 POD3		CP	LE			34	22S	36E	664045	3580932	2045 04/30/2013	04/30/2013	05/31/2013	20	RAYMOND STRAUB	1478
CP 01146 POD2		CP	LE			34	225	36E	664041	3580954	2048 04/30/2013	04/30/2013	05/31/2013	100	RAYMOND STRAUB	1478
CP 01149 POD1		CP	LE			34	225	36E	664281	3580034	2058 04/30/2013	04/30/2013	05/31/2013	25	STRAUB, RAYMOND JR	1478
CP#H48 POD3		CP	LE			27	225	36E	663839	3582227	2553 04/29/2013	04/29/2013	05/31/2013	100	STRAUB, RAYMOND JR	1478
CP HELEK PODE		CP	LE			27	22\$	36E	663840	3582232	2556 04/29/2013	04/29/2013	05/31/2013	40	STRAUB, RAYMOND JR	1478
CP HELEX PODS		CP	LE			27	225	36E	663827	3582239	2570 04/29/2013	04/29/2013	05/31/2013	40	STRAUB, RAYMOND JR	1478
C₱ nositi		CP	LE	Shallow	1 3 4	22	225	36E	664451	3583098*	2647 06/06/1980	06/28/1980	07.01/1980	199	22 VAN NOY, W.L.	208
CP 01147 POD1		CP	LE			22	22\$	36E	663749	3582965	3044 08/29/2013	08/29/2013	09/16/2013	25	BRY AN. EDWARD	1711
CP 01147 POD2		CP	LE			22	22\$	36E	663749	3582965	3044 08/29/2013	08/29/2013	09/13/2013	20	BRYAN, EDWARD	1711
CP 00149 POD1		CP	LE		4.1	29	22\$	37E	670568	3582296*	4657 02/27 1960	05/15/1960	09.06/1966		R S WIGGINS, INC	

Record Count: 14

UTMNAD83 Radius Search (in meters):

Easting (N): 666088 86 Nor

Northing (Y): 3581018 19

Radius: 500

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

10/25/19 5:35 AM

WELLS WITH WELL LOG INFORMATION



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 E 03808 POD1 Q64 Q16 Q4 Sec Tws Rng

X

666105 3580686

Estimated Yield: 35 GPM

Driller License: 539

Driller Company: GARCIA BROTHERS DRILLING CO., LLC

Driller Name:

GARCIA, RAYMOND

Drill Start Date:

04/27/1983

Drill Finish Date:

04/27/1983

Plug Date:

Log File Date:

05/03/1983

PCW Rcv Date:

Shallow

Pump Type:

Pipe Discharge Size:

Source:

Casing Size:

5.00

Depth Well:

125 feet

Depth Water:

55 feet

Water Bearing Stratifications:

Top Bottom

Description

55 Limestone/Dolomite/Chalk

Casing Perforations:

Top Bottom

35

30 50

105 125



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

CP 00776 POD1

3 26 22S 36E

665474 3581705*



Driller License:

Driller Company:

Driller Name:

V & B DILLING COMPANY

Drill Start Date: 11/27/1992

Drill Finish Date:

Plug Date:

Shallow

Log File Date:

02/04/1993

PCW Rcv Date:

Pipe Discharge Size:

Source:

Pump Type: Casing Size:

7.00

Depth Well:

4699 feet

01/02/1993

Depth Water:

Estimated Yield: 400 GPM

4000 feet

Water Bearing Stratifications:

Top Bottom Description

3850

4050 Other/Unknown

4050

Other/Unknown 4699

Casing Perforations:

Top Bottom

4158

4591

*UTM location was derived from PLSS - see Help



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

CP 00575

4 27 22S 36E

664576 3581388*

Driller License: 46

Driller Company: ABBOTT BROTHERS COMPANY

Driller Name:

ABBOTT, MURRELL

Drill Start Date: 11/07/1978

Drill Finish Date:

11/13/1978

Plug Date:

Log File Date:

11/16/1978

PCW Rcv Date:

Source:

Shallow

Pump Type: Casing Size:

6.63

Pipe Discharge Size: **Depth Well:**

198 feet

Depth Water:

Estimated Yield: 25 GPM

160 feet

Water Bearing Stratifications:

Top Bottom Description

160

Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

198 158

*UTM location was derived from PLSS - see Help

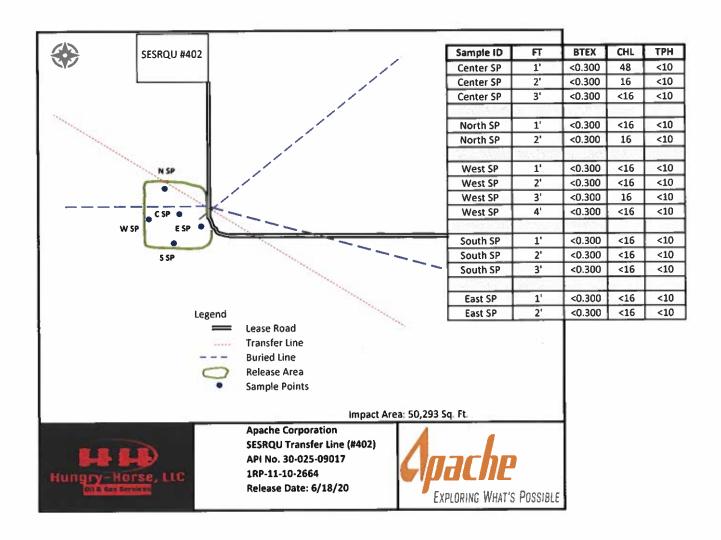
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data

Apache Corporation: South Eunice Seven Rivers Transfer Line (402)

Release Date: 06/29/2010

2019 Sample Data

Sample ID	FT	BTEX	CHLORIDE	TPH
Center SP	1'	<0.300	48	<10
Center SP	2'	<0.300	16	<10
Center SP	3'	<0.300	<16	<10
North SP	1'	<0.300	<16	<10
North SP	2'	<0.300	16	<10
West SP	1'	<0.300	<16	<10
West SP	2'	<0.300	<16	<10
West SP	3'	<0.300	16	<10
West SP	4'	<0.300	<16	<10
South SP	1'	<0.300	<16	<10
South SP	2'	<0.300	<16	<10
South SP	3'	<0.300	<16	<10
and the state of t		- N. D. C P. C. C.	111 2757	-(
East SP	1'	<0.300	<16	<10
East SP	2'	<0.300	<16	<10







September 13, 2019

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: SEVEN RIVERS QUEEN #402

Enclosed are the results of analyses for samples received by the laboratory on 09/10/19 12:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Celeg D. Keena

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

Sincerely,

Celey D. Keene

Received by OCD: 10/30/2019 2:11:08 PM

Lab Director/Quality Manager

Page 1 of 18



CARDINAL Laboratories

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

09/10/2019

09/13/2019

Project Name:

SEVEN RIVERS QUEEN #402

Project Location:

NONE GIVEN **NOT GIVEN**

Sampling Date:

09/05/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: CENTER SP - 1 (H903115-01)

BTEX 8021B	mg/	/kg	Analyze	d By: BF					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2019	ND	1.98	98.9	2.00	0.722	
Toluene*	<0.050	0.050	09/11/2019	ND	1.96	97.9	2.00	2.85	
Ethylbenzene*	<0.050	0.050	09/11/2019	ND	2.02	101	2.00	0.247	
Total Xylenes*	< 0.150	0.150	09/11/2019	ND	6.09	102	6.00	0.208	
Total BTEX	<0.300	0.300	09/11/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	88.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2019	ND	214	107	200	1.48	
DRO >C10-C28*	<10.0	10.0	09/11/2019	ND	215	108	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	09/11/2019	ND					
Surrogate: 1-Chlorooctane	85.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	91.4	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liabdity and Damages. Cardinal's liabdity and cherit's evolutions remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by cherit for analyses. All claims, including those for negligence and any other cause whistoever shall be defined waived unless made in writing and received by Cardinal within thing (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidence and including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidianes, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced everyl in full with written approval of Cardinal Laborationes.

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 18

Released to Imaging: 7/12/2021





Analytical Results For:

APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Received: Reported: 09/10/2019

09/13/2019

Project Name: Project Number: SEVEN RIVERS QUEEN #402

Project Location:

NONE GIVEN NOT GIVEN

Sampling Date:

09/05/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: CENTER SP - 2 (H903115-02)

BTEX 8021B	mg/	kg	Analyze	d By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/12/2019	ND	2.15	107	2.00	3.80		
Toluene*	<0.050	0.050	09/12/2019	ND	1.88	93.8	2.00	3.15		
Ethylbenzene*	<0.050	0.050	09/12/2019	ND	1.88	94.1	2.00	3.58		
Total Xylenes*	<0.150	0.150	09/12/2019	ND	5.72	95.4	6.00	3.47		
Total BTEX	<0.300	0.300	09/12/2019	ND						
Surrogate: 4-Bromofluorobenzene (PIE	95,9	% 73.3-12	9							
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC				75			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	09/11/2019	ND	416	104	400	0.00		
TPH 8015M	mg,	/kg	Analyze	d By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/11/2019	ND	214	107	200	1.48		
DRO >C10-C28*	<10.0	10.0	09/11/2019	ND	215	108	200	2.86		
EXT DRO >C28-C36	<10.0	10.0	09/11/2019	ND						
Surrogate: 1-Chlorooctane	86.6	% 41-14.	2							
Surrogate: 1-Chlorooctadecane	93.1	% 37.6-1-	17							

Cardinal Laboratories

*=Accredited Analyte

based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence

Colog 2 . trans

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 18



Analytical Results For:

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

Fax To:

Received: Reported: 09/10/2019

Project Name: Project Number:

NONE GIVEN

Project Location:

09/13/2019

SEVEN RIVERS QUEEN #402

NOT GIVEN

Sampling Date:

09/05/2019 Soil

Sampling Type:

Cool & Intact

Sampling Condition: Sample Received By:

Tamara Oldaker

Sample ID: CENTER SP - 3 (H903115-03)

BTEX 8021B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2019	ND	2.15	107	2.00	3.80	
Toluene*	<0.050	0.050	09/12/2019	ND	1.88	93.8	2.00	3.15	
Ethylbenzene*	<0.050	0.050	09/12/2019	ND	1.88	94.1	2.00	3.58	
Total Xylenes*	<0.150	0.150	09/12/2019	ND	5.72	95.4	6.00	3.47	
Total BTEX	<0.300	0.300	09/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	96.4	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2019	ND	214	107	200	1.48	
DRO >C10-C28*	<10.0	10.0	09/11/2019	ND	215	108	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	09/11/2019	ND					
Surrogate: 1-Chlorooctane	85.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	91.8	% 37.6-14	17						

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Celey D. Keene, Lab Director/Quality Manager

Page 4 of 18



Analytical Results For:

APACHE CORP - HOBBS **BRUCE BAKER** 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

41-142

37.6-147

84.4 % 92.3 % (575) 393-2432

Received: Reported: 09/10/2019

09/13/2019

SEVEN RIVERS QUEEN #402

Project Name: Project Number: Project Location:

NONE GIVEN

NOT GIVEN

Sampling Date:

09/05/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: NORTH SP - 1' (H903115-04)

BTEX 80218	mg/	kg	Analyze	d By: CK			_		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2019	ND	2.15	107	2.00	3.80	
Toluene*	<0.050	0.050	09/12/2019	ND	1.88	93.8	2.00	3.15	
Ethylbenzene*	<0.050	0.050	09/12/2019	ND	1.88	94.1	2.00	3.58	
Total Xylenes*	<0.150	0.150	09/12/2019	ND	5.72	95.4	6.00	3.47	
Total BTEX	<0.300	0.300	09/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	95.4	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Anatyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2019	ND	214	107	200	1.48	
DRO >C10-C28*	<10.0	10.0	09/11/2019	ND	215	108	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	09/11/2019	ND					

Cardinal Laboratories

Surrogate: 1-Chlorooctane

Surrogate 1-Chlorooctadecane

*=Accredited Analyte

ed by cherk for analyses. All claims,

Colony I treens

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 18



Analytical Results For:

APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Received:

09/10/2019

Reported:

09/13/2019

Project Name: Project Number: SEVEN RIVERS QUEEN #402 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

09/05/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: NORTH SP - 2' (H903115-05)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2019	ND	2.15	107	2.00	3.80	
Toluene*	<0.050	0.050	09/12/2019	ND	1.88	93.8	2.00	3.15	
Ethylbenzene*	<0.050	0.050	09/12/2019	ND	1.88	94.1	2.00	3.58	
Total Xylenes*	< 0.150	0,150	09/12/2019	ND	5.72	95.4	6.00	3.47	
Total BTEX	<0.300	0.300	09/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2019	ND	214	107	200	1.48	
DRO >C10-C28*	<10.0	10.0	09/11/2019	ND	215	108	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	09/11/2019	ND					
Surrogate: 1-Chlorooctane	83.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	89.9	% 37.6-14	17						

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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:

09/10/2019

Sampling Date:

09/05/2019

Reported:

09/13/2019

Sampling Type:

Soil

Project Name: Project Number: SEVEN RIVERS QUEEN #402 NONE GIVEN Sampling Condition:

Cool & Intact

Project Location:

NOT GIVEN

Sample Received By:

Tamara Oldaker

Sample ID: WEST SP - 1' (H903115-06)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2019	ND	2.15	107	2.00	3.80	
Toluene*	<0.050	0.050	09/12/2019	ND	1.88	93.8	2.00	3.15	
Ethylbenzene*	<0.050	0.050	09/12/2019	ND	1.88	94.1	2.00	3.58	
Total Xylenes*	<0.150	0.150	09/12/2019	ND	5.72	95.4	6.00	3.47	
Total BTEX	<0.300	0.300	09/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	96.0	% 73,3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2019	ND	214	107	200	1.48	
DRO >C10-C28*	<10.0	10.0	09/11/2019	ND	215	108	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	09/11/2019	ND					
Surrogate: 1-Chlorooctane	82.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	89.5	% 37.6-14	7						

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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: Reported: 09/10/2019

09/13/2019

Project Name: Project Number: SEVEN RIVERS QUEEN #402

Project Location:

NONE GIVEN

929%

37.6-147

Sampling Date:

09/05/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: WEST SP - 2' (H903115-07)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2019	ND	2.15	107	2.00	3.80	
Toluene*	<0.050	0.050	09/12/2019	ND	1.88	93.8	2.00	3.15	
Ethylbenzene*	<0.050	0.050	09/12/2019	ND	1.88	94.1	2.00	3.58	
Total Xylenes*	<0.150	0.150	09/12/2019	ND	5.72	95.4	6.00	3.47	
Total BTEX	<0.300	0.300	09/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	97.0	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2019	ND	214	107	200	1.48	
DRO >C10-C28*	<10.0	10.0	09/11/2019	ND	215	108	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	09/11/2019	ND					
Surrogate: 1-Chlorooctane	85.2	% 41-142	?						

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Surrogate: 1-Chlorooctadecane

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Released to Umaging: 7/12/2021



Analytical Results For:

APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To:

(575) 393-2432

Received: Reported: 09/10/2019

09/13/2019

Project Name: Project Number: SEVEN RIVERS QUEEN #402 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

09/05/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: WEST SP - 3' (H903115-08)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2019	ND	2.15	107	2.00	3.80	
Toluene*	<0.050	0.050	09/12/2019	ND	1.88	93.8	2.00	3.15	
Ethylbenzene*	<0.050	0.050	09/12/2019	ND	1.88	94.1	2.00	3.58	
Total Xylenes*	<0.150	0.150	09/12/2019	ND	5.72	95.4	6.00	3.47	
Total BTEX	<0.300	0.300	09/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2019	ND	214	107	200	1.48	
DRO >C10-C28*	<10.0	10.0	09/11/2019	ND	215	108	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	09/11/2019	ND					
Surrogate: 1-Chlorooctane	85.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	91.2	% 37,6-14	7						

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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:

09/10/2019

Reported:

09/13/2019

Project Name:

SEVEN RIVERS QUEEN #402

Project Number: Project Location: NONE GIVEN

NOT GIVEN

Sampling Date:

09/05/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: WEST SP - 4' (H903115-09)

BTEX 8021B	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2019	ND	2.15	107	2.00	3.80	
Toluene*	<0.050	0.050	09/12/2019	ND	1.88	93.8	2.00	3.15	
Ethylbenzene*	<0.050	0.050	09/12/2019	ND	1.88	94.1	2.00	3.58	
Total Xylenes*	< 0.150	0.150	09/12/2019	ND	5.72	95.4	6.00	3.47	
Total BTEX	<0.300	0.300	09/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	96.5	% 73 3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2019	ND	214	107	200	1.48	
DRO >C10-C28*	<10.0	10.0	09/11/2019	ND	215	108	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	09/11/2019	ND					
Surrogate: 1-Chlorooctane	86.4	% 41-142	?						
Surrogate: 1-Chlorooctadecane	92.5	% 37.6-14	7						

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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:

09/10/2019

Sampling Date:

09/05/2019

Reported:

09/13/2019

Sampling Type:

Soil

Project Name:

SEVEN RIVERS QUEEN #402

Sampling Condition:

Cool & Intact

Project Number: Project Location: NONE GIVEN

Sample Received By:

Tamara Oldaker

Sample ID: SOUTH SP - 1' (H903115-10)

BTEX 8021B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2019	ND	2.15	107	2.00	3.80	
Toluene*	<0.050	0.050	09/12/2019	ND	1.88	93.8	2.00	3.15	
Ethylbenzene*	<0.050	0.050	09/12/2019	ND	1.88	94.1	2.00	3.58	
Total Xylenes*	<0.150	0.150	09/12/2019	ND	5.72	95.4	6.00	3.47	
Total BTEX	<0.300	0.300	09/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIC	95.4	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2019	ND	214	107	200	1.48	
DRO >C10-C28*	< 10.0	10.0	09/11/2019	ND	215	108	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	09/11/2019	ND					
Surrogate: 1-Chlorooctane	84.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	93.2	% 37.6-14	17						

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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:

09/10/2019

Reported:

09/13/2019

Project Name: Project Number: SEVEN RIVERS QUEEN #402

Project Location:

NONE GIVEN

Sampling Date:

09/05/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SOUTH SP - 2' (H903115-11)

BTEX 8021B	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2019	ND	2.15	107	2.00	3.80	
Toluene*	<0.050	0.050	09/12/2019	ND	1.88	93.8	2.00	3.15	
Ethylbenzene*	<0.050	0.050	09/12/2019	ND	1.88	94.1	2.00	3.58	
Total Xylenes*	<0.150	0.150	09/12/2019	ND	5.72	95.4	6.00	3.47	
Total BTEX	<0.300	0.300	09/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2019	ND	214	107	200	1.48	
DRO >C10-C28*	< 10.0	10.0	09/11/2019	ND	215	108	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	09/11/2019	ND					
Surrogate: 1-Chlorooctane	82.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	89.3	% 37.6-14	7						

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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: Reported: 09/10/2019

09/13/2019

Project Name:

SEVEN RIVERS QUEEN #402

Project Number: Project Location: NONE GIVEN **NOT GIVEN**

Sampling Date: Sampling Type: 09/05/2019

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: SOUTH SP - 3' (H903115-12)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2019	ND	2.15	107	2.00	3.80	
Toluene*	<0.050	0.050	09/12/2019	ND	1.88	93.8	2.00	3.15	
Ethylbenzene*	<0.050	0.050	09/12/2019	ND	1.88	94.1	2.00	3.58	
Total Xylenes*	<0.150	0.150	09/12/2019	ND	5.72	95.4	6.00	3.47	
Total BTEX	<0.300	0.300	09/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	96.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2019	ND	214	107	200	1.48	
DRO >C10-C28*	<10.0	10.0	09/11/2019	ND	215	108	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	09/11/2019	ND					
Surrogate: 1-Chlorooctane	83.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	91.9	% 37.6-14	7						

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Received by OCD: 10/30/2019 2:11:08 PM

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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:

09/10/2019

Sampling Date:

09/05/2019

Reported:

09/13/2019

Sampling Type:

Soil

Project Name: Project Number: SEVEN RIVERS QUEEN #402 NONE GIVEN

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Location:

NOT GIVEN

89.9%

37.6-147

Sample ID: EAST SP - 1' (H903115-13)

BTEX 80218	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2019	ND	2.15	107	2.00	3.80	
Toluene*	<0.050	0.050	09/12/2019	ND	1.88	93.8	2.00	3.15	
Ethylbenzene*	<0.050	0.050	09/12/2019	ND	1.88	94.1	2.00	3.58	
Total Xylenes*	<0.150	0.150	09/12/2019	ND	5.72	95.4	6.00	3.47	
Total BTEX	<0.300	0.300	09/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIE	96.8	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2019	ND	214	107	200	1.48	
DRO >C10-C28*	<10.0	10.0	09/11/2019	ND	215	108	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	09/11/2019	ND					
Surrogate: 1-Chlorooctane	83.5	% 41-142	?						

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Received by OCD: 10/30/2019 2:11:08 PM

Surrogate: I-Chlorooctadecane

*=Accredited Analyte

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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: Reported: 09/10/2019

09/13/2019

Project Name:

SEVEN RIVERS QUEEN #402

Project Number: Project Location:

NONE GIVEN **NOT GIVEN**

Sampling Date:

09/05/2019 Sampling Type: Soil

Sampling Condition: Sample Received By:

Cool & Intact

Tamara Oldaker

Sample ID: EAST SP - 2' (H903115-14)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/12/2019	ND	2.15	107	2.00	3.80	
Toluene*	<0.050	0.050	09/12/2019	ND	1.88	93.8	2.00	3.15	
Ethylbenzene*	<0.050	0.050	09/12/2019	ND	1.88	94.1	2.00	3.58	
Total Xylenes*	< 0.150	0.150	09/12/2019	ND	5.72	95.4	6.00	3.47	
Total BTEX	<0.300	0.300	09/12/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.4	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/11/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2019	ND	214	107	200	1.48	
DRO >C10-C28*	<10.0	10.0	09/11/2019	ND	215	108	200	2.86	
EXT DRO >C28-C36	<10.0	10.0	09/11/2019	ND					
Surrogate: 1-Chlorooctane	85.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	91.9	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Sampler - UPS - Bus - Other:

4 p





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	מאיועש טעונס		BILL TO		ANALYSIS REQUEST	
Project Manager:	Library & Coll		P.O. #:			
Address:			Company: ADOCTU	Corp		
City:	State: Zi	Zip:	Attn: DIWL SO	6		
Phone #:	Fax #:		Address: 0500 M	3(100)		_
Project #:	Project Owner:		City: HOOS			
Project Name:			State: NM Zip: 80000	300		
Project Location: SC	Seven Elivers queen & class	SON H COS	Phone # 439-63-63	189		
Sampler Name:			1	L		
FOR LAB USE ONLY		MATRIX	PRESERV SAMPLING			
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Lab I.D.	Sample I.D.	G)RAB OR (CONTAINE ROUNDWA VASTEWAT OIL GLUDGE	OTHER: ACID/BASE: CE / COOL OTHER:	Chli Bte		
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enalyses. All claims including services, to no event shall Co	TURNOE. IN URE: Joseph and American Comments of the Comments of the Section of the applicable analyses. All claims encluding head on engineers and any other cause witerboarns shall be deemed whited uniters made in writing and received by Cardinal within 30 days after complete or the applicable analyses. All claims encluding the encluding comments of the comments o	ernod vrakved uniezs made in writing a Hithoud limitation, business inkomuption	and received by Cardinal within 30 days at is, loss of use, or loss of profits incurred by	far complation of the applicable green, its subsidiaries.		
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Relinquished by: Delivered By: (Circle One) Time: 1/5 Time: Sample Condition
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Cool Intact
Pres Pres CHECKED BY: (Initials)

Kmontaneza Hungry-Horse.com

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	1000 CO		BILL TO		ANALYSIS		REQUEST	ST
Project Manager:			P.O.#:				-	
Address:			Company: (1000) SML			_	- 100	
City:	State:	Zip:	Attn: CAULY DOKO					
Phone #:	Fax #:		Address: 250 MO(b)			<u>.</u>		
Project #:	Project Owner:	3	city: 10000			_		
Project Name:			State: NM Zip: 8800				_	
Project Location	Project Location: SEVEY LIVEIS QUILLY II 400	1	Phone # (52-63)-69%					
Sampler Name:			Fax#:	S				
FOR LAB USE ONLY		R	PRESERV. SAMPLING	ide				
Lab I.D.	Sample I.D.)RAB OR (C) CONTAINER: ROUNDWATE ASTEWATER DIL L	THER: CID/BASE: E / COOL THER:	Intr Blex IPH				
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PLEASE NOTE: Lobby and	PLEASE NOTE: Lobbly and Damages, Carding's liability and claim's exclusive remedy for any claim uniting window based in contract or land be finited to be amount paid by the claim for be	rany cisim arising whether based is contrac	s or lort, shall be limited to the amount paid by the client :	br die		L	H	

	11mg . //	Some Charles	RE	Fax Result:
Relinquished By:	Date:	Received By:	K	montareza Hungari - Itak Car
	Time:			Company of the Compan
Delivered By: (Circle One)	68	Sample Condition CHEC (In)	CHECKED BY:	and bank writing a dir.
Sampler - UPS - Bus - Other:	prested !	10 Pros Pros	O	

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

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 2165

CONDITIONS

Operator:	OGRID:
APACHE CORPORATION	873
303 Veterans Airpark Ln	Action Number:
Midland, TX 79705	2165
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bbillings	None	7/12/2021