





Ensure BLM concurrence/approval.

CONOCOPHILLIPS

P.O. Box 2197 Houston, TX 77252-2197 Phone 281.293.1000

Ruby Unit #19 (1RP-3623)

Corrective Action Plan

API No. 30-025-41015

Release Date: April 30th, 2015

Unit Letter I, Section 18, Township 17S, Range 32E



PO Box 2948 | Hobbs, NM 88241 | Phone 575.393.2967

April 5th, 2016

Jamie Keyes Environmental Specialist – New Mexico Oil Conservation Division Energy, Minerals and Natural Resources Department 1625 N. French Dr. Hobbs, NM 88240

> RE: Corrective Action Plan ConocoPhillips Ruby Unit 19 (1RP-3623) UL/I sec. 18 T17S R32E API No. 30-025-41015

Mr. Keyes:

ConocoPhillips (CoP) has retained Basin Environmental Service Technologies to address potential environmental concerns at the above-referenced site.

Background and Previous Work

The site is located approximately 2.6 miles southwest of Maljamar, New Mexico at UL/I sec. 18 T17S R32E. NM OSE and BLM installed monitor well records indicate that groundwater will likely be encountered at a depth of approximately 145 +/- feet.

On April 30th, 2015, CoP discovered a flow line leak. A total of 1.8 barrels of oil and 8 barrels of produced water was released over 668 sq ft of Pasture land. None of the fluid was recovered. BLM and NMOCD were notified of the release on April 30th, 2015, and an initial C-141 was submitted to both parties the same day. NMOCD approved the initial C-141 on May 1st, 2015 (Appendix A).

On March 1st, 2016, Basin personnel were on site to assess the release. Three points within the release area were sampled with depth (Figure 1). All samples were field tested for chlorides and organic vapors, and representative samples were taken to a commercial laboratory for analysis (Appendix B).

Photo Documentation of these activities may be found in Appendix C.

Corrective Action Plan

Based on the assessment and sampling data, the release will be excavated down at various depths. The area around Point 1 as depicted in (Figure 1), will be excavated to a depth of three and one-half (3.5) feet bgs. The area around Point 2 will be excavated to a depth of one (1) feet bgs. The area around Point 3 will be excavated to a depth of three (3) feet bgs.

All excavated soil will be taken to a NMOCD approved facility for disposal. Clean soil will be imported to the site to serve as backfill. A sample of the backfill soil will be taken to a commercial laboratory to confirm that the chloride reading is below regulatory standards. The site will be contoured to the surrounding location. The pasture area will be seeded with a blend of native vegetation.

Once these activities have been completed, a report will be sent to NMOCD and BLM requesting 'remediation termination' and site closure.

Basin appreciates the opportunity to work with you on this project. Please contact me if you have any questions or wish to discuss the site.

Sincerely,

hyle Norma____

Kyle Norman Project Lead Basin Environmental Service Technologies (575) 942-8542

Attachments:

Figure 1 – Initial Sampling Appendix A – Initial C-141 Appendix B – Laboratory Analysis Appendix C – Photo Documentation

Figures

Basin Environmental Service Technologies, LLC P.O. Box 2948, Hobbs, NM 88241 Phone 575.393.2967

Proposed Excavation



Appendix A Intial C-141

Basin Environmental Service Technologies, LLC P.O. Box 2948 Hobbs, NM 88241 Phone 575.393.2967 State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification	on and Cor	rective Ac	ction			0.000	
	OPERATO	DR		🛛 Initia	al Report		Final Report
Name of Company: ConocoPhillips	Contact: Jay G						
Address: 29 Vacuum Complex Lane	Telephone No.		5				
Facility Name: Ruby Unit #19	Facility Type:	Well					
Surface Owner: NMOCD Mineral Owner	: BLM			API No	. 30-025-4	1015	
	ON OF RELE	CASE					
Unit LetterSectionTownshipRangeFeet from theNorth11817S32E1650North		eet from the 30	East/W East	/est Line	County LEA		
Latitude 32.8319050826125,- Longitude 103.79833823502	7 E OF RELEA	SE			a da c		
Type of Release: Spill		elease: 8BPW/1.	.8BO	Volume F	Recovered: 0	BBLS	
Source of Release: Flow Line		r of Occurrence	;	Date and	Hour of Dise	covery	
Was Immediate Notice Given?	04/30/2015 If YES, To W			04/30/20	15 9:15 a	m	
Yes No Not Required		ding NMOCD	& S Hı	ighes BLM	1		
By Whom? Jay Garcia	Date and Hou	r: 04/30/2015 2	:30 pm				
Was a Watercourse Reached?	If YES, Volur	ne Impacting th	e Wate	rcourse.			
If a Watercourse was Impacted, Describe Fully.*							
If a watercourse was impacted, Describe Fully.*							
	By O	CD Distric	ct 1 a	t 8:12 a	am, May	01, 1	2015
Describe Area Affected and Cleanup Action Taken.*	U						
ENV –Agency Reportable – 8 BPW & 1.8 BO – Ruby On Thursday April 30, 2015 at 9:00 MDT, at Ruby Un	19 - R	KR II – MCB line leek wa		aljamai	r: Ia normal	roup	de
resulting in a release of 8 bbl. of produced water and	1.8 bbl. of oil	with none re	ecove	red Th	le affecte	d are	a will be
remediated according to BLM/NMOCD and COPC gu	idelines. This	is a PSE Ti	ier 3 e	event. C	Conseque	ence:	1.
Likelihood: 5, RR: 2							3
I hereby certify that the information given above is true and complete to	the best of my know	owledge and un	derstan	d that purs	suant to NMO	OCD ru	iles and
regulations all operators are required to report and/or file certain release	notifications and j	perform correct	ive acti	ons for rele	eases which	may en	idanger
public health or the environment. The acceptance of a C-141 report by t should their operations have failed to adequately investigate and remedie	ate contamination	that pose a three	at to gr	ound water	eve the oper	ator of ter hu	liability man health
or the environment. In addition, NMOCD acceptance of a C-141 report	does not relieve th	ne operator of re	esponsi	bility for co	ompliance w	ith any	other
federal, state, or local laws and/or regulations.	[OIL COM	TDV	ATION	DIVICIO	N.T.	
		OIL CONS	ERV	ATION	DIVISIO	<u>NN</u>	
Signature: Jay Garcia					\cap		
Printed Name: Jay Garcia	Approved by En	vironmental Sp	ecialist	Fell	Al	bon	\sim
Title: LEAD HSE	Approval Date:	05/01/2015	F	vniration	Date: 08/01/2	2015	
			1	Apriation	Date. Sol official		
E-mail Address: jay.c.garcia@conocophillips.com	Conditions of Ap	pproval:					217817
		required. Delin			Attached		41/01/
Dete: 04/20/2015	remediate as	per MNOCD g	guides.	Geotag	1RP-3	623	
Date: 04/30/2015 Phone: 575-704-2455	photographs	of remediation	n requir	ed.	TRP-3	1020	

* Attach Additional Sheets If Necessary

pKJ1512130746 nKJ1512130095

Appendix B Laboratory Analysis

Basin Environmental Service Technologies, LLC P.O. Box 2948 Hobbs, NM 88241 Phone 575.393.2967



March 07, 2016

KYLE NORMAN Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: RUBY UNIT #19

Enclosed are the results of analyses for samples received by the laboratory on 03/04/16 14:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is 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.

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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



Basin Environmental Service KYLE NORMAN P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	03/04/2016	Sampling Date:	03/01/2016
Reported:	03/07/2016	Sampling Type:	Soil
Project Name:	RUBY UNIT #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 1 @ 6" (H600485-01)

BTEX 8021B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	03/04/2016	ND	1.94	96.9	2.00	4.20	
Toluene*	0.421	0.200	03/04/2016	ND	1.89	94.5	2.00	5.36	
Ethylbenzene*	0.798	0.200	03/04/2016	ND	1.71	85.5	2.00	5.61	
Total Xylenes*	1.03	0.600	03/04/2016	ND	5.27	87.9	6.00	5.93	
Total BTEX	2.25	1.20	03/04/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/04/2016	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	241	200	03/04/2016	ND	190	95.0	200	5.89	
DRO >C10-C28	5880	200	03/04/2016	ND	206	103	200	6.70	
Surrogate: 1-Chlorooctane	95.0	% 35-147	7						
	15.0	/0 55 14/							

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service KYLE NORMAN P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	03/04/2016	Sampling Date:	03/01/2016
Reported:	03/07/2016	Sampling Type:	Soil
Project Name:	RUBY UNIT #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 2 @ 1' (H600485-02)

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	03/04/2016	ND	1.94	96.9	2.00	4.20	
Toluene*	<0.050	0.050	03/04/2016	ND	1.89	94.5	2.00	5.36	
Ethylbenzene*	<0.050	0.050	03/04/2016	ND	1.71	85.5	2.00	5.61	
Total Xylenes*	<0.150	0.150	03/04/2016	ND	5.27	87.9	6.00	5.93	
Total BTEX	<0.300	0.300	03/04/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	03/04/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/04/2016	ND	190	95.0	200	5.89	
DRO >C10-C28	120	10.0	03/04/2016	ND	206	103	200	6.70	
Surrogate: 1-Chlorooctane	96.7 9	% 35-147	7						
Surrogate: 1-Chlorooctadecane	106 %	28-171	,						

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Basin Environmental Service KYLE NORMAN P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	03/04/2016	Sampling Date:	03/01/2016
Reported:	03/07/2016	Sampling Type:	Soil
Project Name:	RUBY UNIT #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 3 @ 3' (H600485-03)

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	03/04/2016	ND	1.94	96.9	2.00	4.20	
Toluene*	<0.050	0.050	03/04/2016	ND	1.89	94.5	2.00	5.36	
Ethylbenzene*	<0.050	0.050	03/04/2016	ND	1.71	85.5	2.00	5.61	
Total Xylenes*	<0.150	0.150	03/04/2016	ND	5.27	87.9	6.00	5.93	
Total BTEX	<0.300	0.300	03/04/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0 \$	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/04/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/04/2016	ND	190	95.0	200	5.89	
DRO >C10-C28	31.7	10.0	03/04/2016	ND	206	103	200	6.70	
Surrogate: 1-Chlorooctane	97.5 9	35-147	,						
Surrogate: 1-Chlorooctadecane	108 9	6 28-171							

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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 SM4500CI-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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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager

ARD	RDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476	97 10	2111 Beechwood, Abilene, TX 79603 (325) 673-7001 FAX (325)673-7020				ANAL VSIS	VSIS REDUEST	
Company Name:	ConocoPhillips		BILL TO		-	-	ANALI		_
Project Manager:	Kyle Norman		P.O. #				s		
Address: 419 W Cain	Cain		Company: Basin				ons		_
_	State: NM	Zip: 88240	Attn:				nic		
Phone #: 575-393-2967	-	393-0293	Address: 419 W Cain		Λ				
Division #		ler:	City: Hobbs	s			-		
Project Name:	Ruby lant 1	#19	State: NM Zip: 88240	ide)15	EX TF	tio)S	
Project ocation:			Phone #: 575-393-2967		-	-	Ca	TC	
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March 09, 2016

KYLE NORMAN Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: RUBY UNIT #19

Enclosed are the results of analyses for samples received by the laboratory on 03/08/16 8:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is 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.

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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



Basin Environmental Service KYLE NORMAN P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	03/08/2016	Sampling Date:	03/01/2016
Reported:	03/09/2016	Sampling Type:	Soil
Project Name:	RUBY UNIT #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 1 @ 1' (H600494-01)

BTEX 8021B	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.250	0.250	03/09/2016	ND	2.08	104	2.00	0.193	
Toluene*	0.765	0.500	03/09/2016	ND	2.03	102	2.00	0.140	
Ethylbenzene*	1.55	0.500	03/09/2016	ND	1.83	91.3	2.00	0.480	
Total Xylenes*	3.30	1.50	03/09/2016	ND	5.63	93.8	6.00	0.275	
Total BTEX	5.61	2.75	03/09/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	73.6-14	0						
TPH 8015M	mg,	'kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	829	200	03/08/2016	ND	198	98.8	200	3.81	
DRO >C10-C28	8190	200	03/08/2016	ND	209	104	200	4.50	
Surrogate: 1-Chlorooctane	155	35-147	7						
Surrogate: 1-Chlorooctadecane	158	28-171							

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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 SM4500CI-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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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager

Delivered By: (Circle One) Sampler - UPS - Bus - Other	Relinquished By:	Jacob	affiliates or successors arising	PLEASE NOTE: Liability and analyses. All claims including					-	Hooyes	Lab I.D.		_	Sampler Name:	Project Location	Project Name:	Project #:	Phone #:	City:	Address:	Project Manager:	Company Name:	AA	7
Vered By: (Circle One) Sample Condition CHECK Ier - UPS - Bus - Other: 4.80 Cool Infact (Influence) Inter - UPS - Bus - Other: 4.80 Pres (Influence)		Jacob Kamplain	service. In no event shall Cardinal be table for incidental or consequential damages, including without, invitation, business interruptions, loss of use, or loss of poths incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	PLEASE NOTE: Liability and Damages. Cardina's liability and clent's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the clent for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the a					Pt. 1@1'		Sample I.D.			Jacob Kamplain	Project Location: Ruby Unit #19						-	ConocoPhillips	101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476	
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March 10, 2016

KYLE NORMAN Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: RUBY UNIT #19

Enclosed are the results of analyses for samples received by the laboratory on 03/09/16 8:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is 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.

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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



Basin Environmental Service KYLE NORMAN P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	03/09/2016	Sampling Date:	03/01/2016
Reported:	03/10/2016	Sampling Type:	Soil
Project Name:	RUBY UNIT #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Amanda Ponce
Project Location:	NOT GIVEN		

Sample ID: PT. 1 @ 1.5' (H600503-01)

BTEX 8021B	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	03/09/2016	ND	1.92	95.8	2.00	0.125	
Toluene*	<1.00	1.00	03/09/2016	ND	1.89	94.5	2.00	0.0761	
Ethylbenzene*	2.53	1.00	03/09/2016	ND	1.72	85.9	2.00	0.302	
Total Xylenes*	14.6	3.00	03/09/2016	ND	5.30	88.4	6.00	0.314	
Total BTEX	17.1	5.50	03/09/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 73.6-14	0						
TPH 8015M	mg/	'kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1500	200	03/09/2016	ND	172	85.8	200	15.6	
DRO >C10-C28	10600	200	03/09/2016	ND	162	80.8	200	28.1	
Surrogate: 1-Chlorooctane	173 9	35-147	7						
Surrogate: 1-Chlorooctadecane	242 9	% 28-171							

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose shall be instrumed by client, its subsidiaries, affiliates or successor arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Page 4 of 4



March 30, 2016

KYLE NORMAN Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: RUBY UNIT #19

Enclosed are the results of analyses for samples received by the laboratory on 03/29/16 14:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is 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.

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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



Basin Environmental Service KYLE NORMAN P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	03/29/2016	Sampling Date:	03/28/2016
Reported:	03/30/2016	Sampling Type:	Soil
Project Name:	RUBY UNIT #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 1 @ 5' (H600657-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/29/2016	ND	2.07	104	2.00	5.25	
Toluene*	<0.050	0.050	03/29/2016	ND	1.96	97.8	2.00	7.05	
Ethylbenzene*	<0.050	0.050	03/29/2016	ND	1.72	85.9	2.00	8.63	
Total Xylenes*	<0.150	0.150	03/29/2016	ND	5.28	87.9	6.00	8.62	
Total BTEX	<0.300	0.300	03/29/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/30/2016	ND	400	100	400	7.69	
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	03/29/2016	ND	176	88.2	200	6.12	
DRO >C10-C28	43.3	10.0	03/29/2016	ND	166	83.1	200	12.3	
Surrogate: 1-Chlorooctane	86.7	% 35-147							
Surrogate: 1-Chlorooctadecane	95.6	% 28-171							

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Page 4 of 4



March 18, 2016

KYLE NORMAN Basin Environmental Service P.O. Box 301 Lovington, NM 88260

RE: RUBY UNIT #19

Enclosed are the results of analyses for samples received by the laboratory on 03/17/16 9:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is 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.

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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



Basin Environmental Service KYLE NORMAN P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received:	03/17/2016	Sampling Date:	03/16/2016
Reported:	03/18/2016	Sampling Type:	Soil
Project Name:	RUBY UNIT #19	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 1 @ 3.5' (H600584-01)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2016	ND	2.16	108	2.00	2.97	
Toluene*	1.41	0.050	03/17/2016	ND	2.09	104	2.00	3.59	
Ethylbenzene*	2.71	0.050	03/17/2016	ND	1.87	93.3	2.00	3.70	
Total Xylenes*	6.91	0.150	03/17/2016	ND	5.65	94.2	6.00	3.39	
Total BTEX	11.0	0.300	03/17/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/17/2016	ND	432	108	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	<50.0	50.0	03/17/2016	ND	192	95.8	200	0.136	
DRO >C10-C28	2370	50.0	03/17/2016	ND	194	97.0	200	0.564	
Surrogate: 1-Chlorooctane	102 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	125 9	% 28-171							

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside if 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

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose shall be instrumed by client, its subsidiaries, affiliates or successor arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager

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Appendix C Photo Documentation

Basin Environmental Service Technologies, LLC P.O. Box 2948 Hobbs, NM 88241 Phone 575.393.2967

ConocoPhillips Ruby Unit #19 (1RP-3623) Unit Letter I, Section 18, T17S, R32E



Initial Release, Facing East

3/1/2016



Collecting Sample, Facing North West

3/1/2016



Initial Release, Facing North West

3/1/2016



Collecting Sample, Facing North West

3/1/2016