





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,

Kyle Norman

hyle Norms____

Project Lead

Basin Environmental Service Technologies

(575) 942-8542

Attachments:

Figure 1 – Initial Sampling

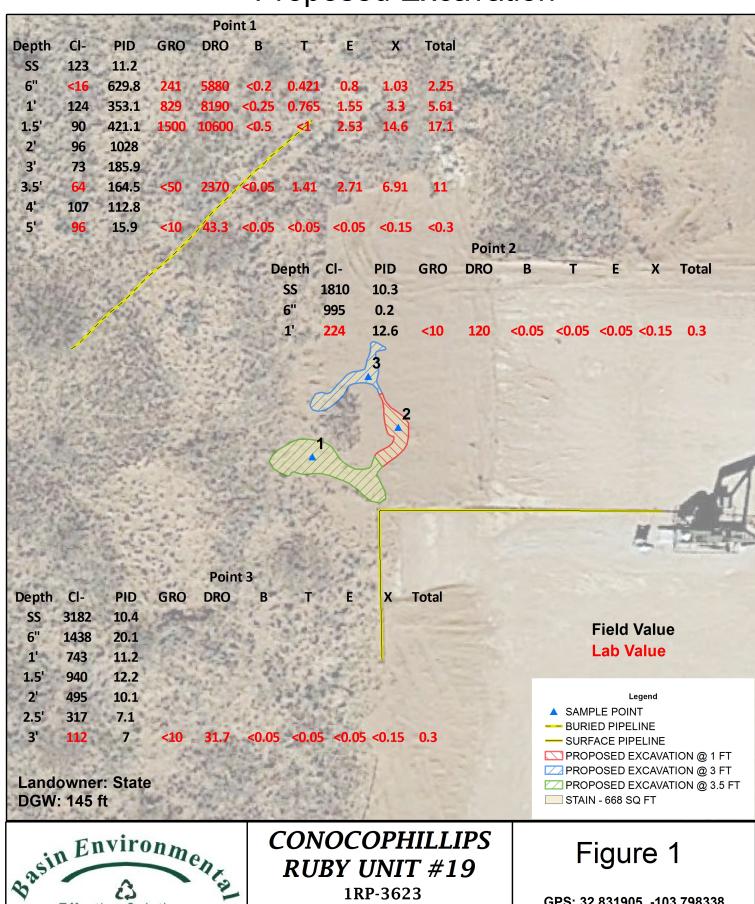
Appendix A – Initial C-141

Appendix B – Laboratory Analysis

Appendix C – Photo Documentation

Figures

Proposed Excavation





1RP-3623

ULI SECTION 18 T-17-S R-32-E LEA COUNTY, NM GPS: 32.831905 -103.798338



Appendix A Intial C-141

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

State of New Mexico Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

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

	OPERATOR Initial Report Final Report
Name of Company: ConocoPhillips	Contact: Jay Garcia
Address: 29 Vacuum Complex Lane	Telephone No. 575-704-2455
Facility Name: Ruby Unit #19	Facility Type: Well
Surface Owner: NMOCD Mineral Owner	: BLM API No. 30-025-41015
LOCATIO	ON OF RELEASE
	th/South Line Feet from the East/West Line County
18 17S 32E 1650 Nort	
Latitude 32.8319050826125,- Longitude 103.79833823502	
	E OF RELEASE
Type of Release: Spill Source of Release: Flow Line	Volume of Release: 8BPW/1.8BO Volume Recovered: 0 BBLS
Source of Release: Flow Line	Date and Hour of Occurrence Date and Hour of Discovery 04/30/2015 9:15 am 04/30/2015 9:15 am
Was Immediate Notice Given?	If YES, To Whom?
	d Tomas Oberding NMOCD & S Hughes BLM
By Whom? Jay Garcia	Date and Hour: 04/30/2015 2:30 pm
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.
If a Watercourse was Impacted, Describe Fully.*	DECENIED
if a watercourse was impacted, Describe Fully.	RECEIVED
	By OCD District 1 at 8:12 am, May 01, 2015
resulting in a release of 8 bbl. of produced water and	Unit # 19 – RR II – MCBU – Maljamar: it # 19 a flow line leak was found during normal rounds 1.8 bbl. of oil with none recovered. The affected area will be idelines. This is a PSE Tier 3 event. Consequence: 1,
regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by t should their operations have failed to adequately investigate and remedia	the best of my knowledge and understand that pursuant to NMOCD rules and notifications and perform corrective actions for releases which may endanger the NMOCD marked as "Final Report" does not relieve the operator of liability atte contamination that pose a threat to ground water, surface water, human health does not relieve the operator of responsibility for compliance with any other
	OIL CONSERVATION DIVISION
Signature: Jay Garcia	
Printed Name: Jay Garcia	Approved by Environmental Specialist:
Title: LEAD HSE	Approval Date: 05/01/2015 Expiration Date: 08/01/2019
E-mail Address: jay.c.garcia@conocophillips.com	Conditions of Approval:
Date: 04/30/2015 Phone:575-704-2455 Attach Additional Sheets If Necessary	Site samples required. Delineate and remediate as per MNOCD guides. Geotag photographs of remediation required. Attached 1RP-3623

Appendix B Laboratory Analysis



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)

Celey D. Keene

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Fax To:

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

(575) 396-1429

Received: 03/04/2016
Reported: 03/07/2016

Project Name: RUBY UNIT #19
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/01/2016

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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 9	% 73.6-14	0						
Chloride, SM4500CI-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	,						
Surrogate: 1-Chlorooctadecane	207	% 28-171							

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

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	% 73.6-14	0						
Chloride, SM4500CI-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	% 35-147	,						
Surrogate: 1-Chlorooctadecane	106 9	% 28-171							

Cardinal Laboratories *=Accredited Analyte

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03/01/2016



Analytical Results For:

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

(575) 396-1429

Received: 03/04/2016 Sampling Date:

Reported: 03/07/2016 Sampling Type: Soil Project Name: RUBY UNIT #19 Sampling Condition: Cool

Fax To:

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 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	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	7						
Surrogate: 1-Chlorooctadecane	108 %	6 28-171							

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Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or

matrix interference's.

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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Celeg D. Kreene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

(505) 393-2326 FAX (505) 393-2476 company Name: ConocoPhillips roject Manager: Kyle Norman iddress: 419 W Cain State: NM Zir		(325) 673-7001 FAX (325)673-7020 BILL TO P.O. #: Company: Basin Address: A10 W Cain				Anions	YSIS	REG	REQUEST
393-2967 R.bu	Fax #: 575-393-0293 Project Owner:	Address: 419 W Cain City: Hobbs State: NM Zip: 88240	ides)15 M	TPH	tions/A	S		
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Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool_Intact Cool_Intact Pres Pres No No	ct (Intiglis)							



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.

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Celey D. Keene

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Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Fax To: (575) 396-1429

Received: 03/08/2016 Reported: 03/09/2016

Project Name: RUBY UNIT #19
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/01/2016

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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

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Celeg D. Freene



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*** 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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Celeg D. Kreene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

ompany Name: ConocoPhillips		BILL TO				ANA	ANALYSIS	REQUEST	JEST	
roject Manager: Kyle Norman	P.O. #			\dashv	\dashv	_				
ddress:	Compa	Company: Basin			_	ns			_	
State:	Zip: Attn:					ior				
hone #: Fax #:	Address:	SS:			_	Αn				
roject #: Project Owner:	mer: City: Hobbs	Hobbs		IVI	Н	_				
roject Name:	State: NM	NM Zip: 88240	des	15	<u>^</u> ГР	_			_	
roject Location: Ruby Unit #19	Phone #:	**		SO.		_	DS			
ampler Name: Jacob Kamplain	Fax #:				_	_				
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING			_					
Lab I.D. իևօնԿՑՎ 	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE:	OTHER:			-	Comple	- COLLIPIO			
Pt. 1 @ 1'	1	3/1/16 09:15		1	+	+				
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				+						
EASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the halfsess. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable in the cause what half Cardinal halfses in the cause of the cardinal halfsess and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable in the cardinal halfses and any other cause whatsoever shall be deemed unless that the cardinal halfses are cardinally and client's exclusive removed the cardinal halfses are cardinally and client's exclusive removed to the arrow of the client for the cardinal halfses are cardinally and client's exclusive removed to the cardinal halfses are cardinally and client's exclusive removed to the cardinal halfses are cardinally and client's exclusive removed to the cardinal halfses are cardinally and client's exclusive removed to the cardinal halfses are cardinally and client's exclusive removed to the cardinal halfses are cardinally and client's exclusive removed to the cardinal halfses are cardinally and client's exclusive removed to the cardinal halfses are cardinally and client's exclusive removed to the cardinal halfses are cardinally and cardinal halfses are cardinally and client's exclusive removed to the cardinal halfses are cardinally and client's exclusive removed to the cardinal halfses are cardinally and cardinal halfses are cardina	y for any claim arising whether based in contract or lort, shall be deemed waived unless made in writing and received by furting without limitation husiness intermediate hers of use.	is be similed to the amount paid by the client is y Cardinal within 30 days after completion of or fees of credits incurred by client its suitestic	or the the applicable taries	-	1	-	t		-	
filiates 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.	or by Cardinal, regardless of whether such claim is based upo	on any of the above stated reasons or otherw	iso.							

4.80

Sample Condition
Cool Intact
PYes PYes
No No

CHECKED BY

Sampler - UPS - Bus - Other: Delivered By: (Circle One) Relinquished By:

Time:

Received By:

eived By:

Phone Result: Fax Result: REMARKS:

☐ Yes

No No

Add'l Phone #: Add'l Fax #:

email results:knorman@basinenv.com company: jkamplain@basinenv.com

Jacob Kamplain

Relinquished By:



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)

Celey D. Keene

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Fax To: (575) 396-1429

Received: 03/09/2016
Reported: 03/10/2016
Project Name: RUBY UNIT #19

Project Name: RUBY UNIT #19
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/01/2016

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Amanda Ponce

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

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



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

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Celeg D. Freene

ARDINAL LABORATORIES CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

DO 101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

ConocoPhillips	Phillips				l	l	l	١	Ī	ı	۱	I	I						1		1	-		1	
Project Manager: Kyle Norman	rman								9	P.O. #:	*											_			
Address:									C	Company: Basin	pan	Ÿ.	Ba	sin						าร					
City:	State:	Zip:	9						>	Attn:										ioi		_		_	
Phone #:	Fax #:								>	Address:	ess	**								An	- 25	_			
Project #:	Project Owner:	7.							C	City: Hobbs	프	bb	S			S	M		Н	-					
Project Name:									S	State: NM	Z	Z		Zip: 88240		des	15	X	TP	_					
Project Location: Ruby Unit #19	Jnit #19								ד	Phone #:	e #	***				orio	80	ГΕ	ıs .	_	DS				
Sampler Name: .lacob Kamplain	mplain								771	Fax #	75					hlo	48	B.	xa	_				_	
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	Sample I.D.	G)RAB OR (C)OMP.	CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	OTHER:	DATE	TIME		Т			Comple	Johnpie				
Pt. 1 @ 1.5'	5'		_	_	-	-	-		-	-	-	-		3/1/16	09:45		<	<						+-	
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		-	-	÷	+	+	+	+	+	+	+	+	+						1			_			

Sample Condition
Cool Intact
Yes Yes
No No

CHECKED BY:

Sampler - UPS - Bus - Other: Delivered By: (Circle One) Relinquished By:

Jacob Kamplain

Time: Kod

Received By:

Received By:

Phone Result:
Fax Result:
REMARKS:

☐ Yes

No No

Add'l Phone #: Add'l Fax #:

email results:knorman@basinenv.com company: jkamplain@basinenv.com

Time: Date: Relinquished By:

ors arising out of or related to the performan

[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



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)

Celey D. Keene

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 03/29/2016 Reported: 03/30/2016

Project Name: RUBY UNIT #19
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/28/2016

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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

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

Celeg D. Kreene



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

ecovery.

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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

(505) 393-2326 FAX (505) 393-2476		(325) 673-7001 FAX (325)673-7020		١	١		ANA	ANAI VSIS F	REQUEST	
ompany Name: ConocoPhillips		DILL IO		1	1	1		-		-
roject Manager: Kyle Norman		P.O. #:							_	
ddress: 419 W Cain		Company: Basin				_	ns			_
Sity: Hobbs State: NM	Zip: 88240	Attn:					nio			_
hone #: 575-393-2967 Fax #: 575-393-0293	93-0293	Address: 419 W Cain		1				- 11		_
	er:	City: Hobbs	S	_	IV	Ή				_
ame: PL	9	State: NM Zip: 88240	de	_						_
Project Location:		Phone #: 575-393-2967	orio	80	ΓE	is.		DS		
sampler Name: Tromplats		Fax #: 575-393-0293		_	_	_				
	MATRIX	PRESERV. SAMPLING				_	_			_
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	TIME	т	'	-	Comple	Johnpie		
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PEASE NOTE: Liability and Damages. Cardinal's fability and client's exclusive renecty for any daim unlaing whether based in contract or tort, shall be fimilited to the amount paid by the client for the applicable numbyes. All daims including those for negligence and any other cause whatsperser shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable numbyes. All daims including those for negligence and any other cause whatsperser shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable.	or any claim arising whether based in con- be deemed waived unless made in writing ding without limitation, business interruption	tract or tort, shall be limited to the amount paid t g and received by Cardinal within 30 days after o ons, loss of use, or loss of profits incurred by die	y the client for the ompletion of the appoint, its subsidiaries	dicable						
Relinquished By: Tippe:	Reseived By:	Pul Respired By: 105 MM House Daniel	Phone Result: Fax Result: REMARKS:		☐ Yes	8 8 8 8	Ado	Add'l Phone #: Add'l Fax #:	,	
Relinquished By: Date:	Received By:		email results: knorman@ba	sults	oasii	nenv	.com	ı; jkamp	email results: knorman@basinenv.com; jkamplain@basinenv;	
		ct ((urtials)								
Sampler - UPS - Bus - Outer.	ON DINO DINO	No 2			١	١	١			



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)

Celey D. Keene

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Fax To: (575) 396-1429

Received: 03/17/2016 Reported: 03/18/2016

Project Name: RUBY UNIT #19
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/16/2016

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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 %	6 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	6 35-147	,						
Surrogate: 1-Chlorooctadecane	125 9	6 28-171							

Cardinal Laboratories *=Accredited Analyte

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



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

ecovery.

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. Kreene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240
(505) 393-2326 FAX (505) 393-2476

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

454

.80

Cool Intact

Yes Ares

No No

CHECKED BY:

Phone Result: Fax Result: REMARKS:

☐ Yes

No No

Add'I Fax #:

email results:

knorman@basinenv.com; jkamplain@basinenv;

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Relinquished By

Appendix C Photo Documentation

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