

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

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

OIL CONS. DIV. DIST. 3

APR 13 2016

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

Form C-141
Revised August 8, 2011

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Burlington Resources, a Wholly Owned Subsidiary of ConocoPhillips Company	Contact Lisa Hunter
Address 3401 East 30th St, Farmington, NM	Telephone No. (505) 258-1607
Facility Name: Carle I	Facility Type: Gas Well
Surface Owner BLM	Mineral Owner BLM (SF-078402-A)
API No. 3004509395	

LOCATION OF RELEASE

Unit Letter C	Section 20	Township 30N	Range 11W	Feet from the 990	North/South Line North	Feet from the 1650	East/West Line West	County San Juan
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Latitude **36.802053** Longitude **-108.017331**

NATURE OF RELEASE

Type of Release Hydrocarbon & Produced Water	Volume of Release 57bbls Hyd. Carbon & 13bbls PW	Volume Recovered 5bbls Hyd. Carbon / 1bbl PW
Source of Release Production Tank	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 1/15/15 @ 3:30PM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? BLM (Shari Ketcham) & OCD (Cory Smith)	
By Whom? Lisa Hunter	Date and Hour 1/16/2015 @ 2:40 PM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A	

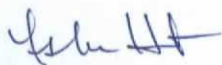
If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.* **MSO discovered a release from the production tank on the subject well from a hole on the inspection plate flange. 57bbls of hydrocarbon and 13bbls of produced water was released. The well was immediately shut in and a SPEC truck called. 5 bbls of hydrocarbon was recovered and 1bbls of produced water.**

Describe Area Affected and Cleanup Action Taken.*

ConocoPhillips will assess the soil to determine a path forward for clean-up if necessary. Excavation was 46' x 31' x 9-11' Deep. 582 c/yds of soil was transported to IEI Land Farm. March 31, 2016, a five-point composite confirmation sample was collected on the West end of the base at a depth of six inches or greater. The East end of the base and four walls had been cleared in the lab previously (2015). Laboratory Analytical results are below the NMOCD action level of 100 mg/kg for a site rank of 20 (TPH 95ppm, Chlorides 120ppm and BTEX Non-detect). No further action required. The final soil analytical report is attached for review along with the 2015 Analytical Reports.

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

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Lisa Hunter	Approved by Environmental Specialist: 	
Title: Field Environmental Specialist	Approval Date: 4/14/16	Expiration Date: 4/14/16
E-mail Address: Lisa.Hunter@cop.com	Conditions of Approval:	Attached ☐
Date: April 8, 2016	Phone: (505) 258-1607	

* Attach Additional Sheets If Necessary

#NCS 1507241529

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Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

April 07, 2016

Lisa Hunter
Conoco Phillips
5525 Hwy 64 (3401 E. 30th St)
Farmington, NM 87402
TEL: (505) 320-0699
FAX

RE: Carle 1 West Base

OrderNo.: 1604004

Dear Lisa Hunter:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/1/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1604004

Date Reported: 4/7/2016

CLIENT: Conoco Phillips

Client Sample ID: Carle 1 West Base

Project: Carle 1 West Base

Collection Date: 3/31/2016 12:45:00 PM

Lab ID: 1604004-001

Matrix: SOIL

Received Date: 4/1/2016 7:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	120	30		mg/Kg	20	4/5/2016 11:28:19 AM	24624
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	95	9.3		mg/Kg	1	4/5/2016 4:15:32 PM	24573
Surr: DNOP	110	70-130		%Rec	1	4/5/2016 4:15:32 PM	24573
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/5/2016 10:21:42 PM	24607
Surr: BFB	100	66.2-112		%Rec	1	4/5/2016 10:21:42 PM	24607
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	4/5/2016 10:21:42 PM	24607
Toluene	ND	0.050		mg/Kg	1	4/5/2016 10:21:42 PM	24607
Ethylbenzene	ND	0.050		mg/Kg	1	4/5/2016 10:21:42 PM	24607
Xylenes, Total	ND	0.10		mg/Kg	1	4/5/2016 10:21:42 PM	24607
Surr: 4-Bromofluorobenzene	100	80-120		%Rec	1	4/5/2016 10:21:42 PM	24607

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1604004

07-Apr-16

Client: Conoco Phillips
Project: Carle 1 West Base

Sample ID	MB-24624	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	24624	RunNo:	33339					
Prep Date:	4/5/2016	Analysis Date:	4/5/2016	SeqNo:	1024485	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-24624	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	24624	RunNo:	33339					
Prep Date:	4/5/2016	Analysis Date:	4/5/2016	SeqNo:	1024486	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.5	90	110			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1604004

07-Apr-16

Client: Conoco Phillips
Project: Carle 1 West Base

Sample ID	MB-24573	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	24573	RunNo:	33293					
Prep Date:	4/1/2016	Analysis Date:	4/5/2016	SeqNo:	1022944	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.6		10.00		95.9	70	130			

Sample ID	1604004-001AMS	SampType:	MS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	Carle 1 West Base	Batch ID:	24573	RunNo:	33293					
Prep Date:	4/1/2016	Analysis Date:	4/5/2016	SeqNo:	1024025	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	120	10	50.30	94.98	49.4	31.2	162			
Surr: DNOP	6.4		5.030		128	70	130			

Sample ID	1604004-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	Carle 1 West Base	Batch ID:	24573	RunNo:	33293					
Prep Date:	4/1/2016	Analysis Date:	4/5/2016	SeqNo:	1024026	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	140	9.8	48.88	94.98	98.3	31.2	162	17.7	31.7	
Surr: DNOP	5.3		4.888		109	70	130	0	0	

Sample ID	LCS-24573	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	24573	RunNo:	33293					
Prep Date:	4/1/2016	Analysis Date:	4/6/2016	SeqNo:	1024363	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.7	65.8	136			
Surr: DNOP	4.8		5.000		96.7	70	130			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1604004

07-Apr-16

Client: Conoco Phillips
Project: Carle 1 West Base

Sample ID	LCS-24607		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 24607		RunNo: 33301					
Prep Date:	4/4/2016		Analysis Date: 4/5/2016		SeqNo: 1024387		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.7	80	120			
Surr: BFB	1100		1000		107	66.2	112			

Sample ID	MB-24607		SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	PBS		Batch ID:	24607		RunNo:	33301				
Prep Date:	4/4/2016		Analysis Date:	4/5/2016		SeqNo:	1024388		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BFB	1000		1000		99.6	66.2	112				

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1604004

07-Apr-16

Client: Conoco Phillips
Project: Carle 1 West Base

Sample ID	LCS-24607		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	24607		RunNo:	33301			
Prep Date:	4/4/2016		Analysis Date:	4/5/2016		SeqNo:	1024408		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.3	75.3	123			
Toluene	0.91	0.050	1.000	0	91.1	80	124			
Ethylbenzene	0.88	0.050	1.000	0	88.1	82.8	121			
Xylenes, Total	2.6	0.10	3.000	0	87.5	83.9	122			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			

Sample ID	MB-24607		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	24607		RunNo:	33301			
Prep Date:	4/4/2016		Analysis Date:	4/5/2016		SeqNo:	1024409		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Conoco Phillips Farm HW

Work Order Number: 1604004

RcptNo: 1

Received by/date:

JA

04/01/16

Logged By: Joe Archuleta

4/1/2016 7:50:00 AM

JA

Completed By: Joe Archuleta

4/1/2016 8:41:00 AM

JA

Reviewed By:

JA/AS

04/01/16

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐ # of preserved bottles checked for pH:
(<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐ Adjusted?
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐ Checked by:

Special Handling (If applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record		Turn-Around Time:	
Client: <u>ConocoPhillips</u>		☒ Standard ☐ Rush	
Billing Address: <u>PO Box 4289</u>		Project Name: <u>Carle West Base</u>	
<u>Farmington, NM 87499</u>		Project #: <u> </u>	
Phone #: <u>505-258-1607</u>		Project Manager: <u>Lisa Hunter</u>	
Mail or Fax#: <u>Lisa.Hunter@COP.COM</u>			
VQC Package: ☒ Standard ☐ Level 4 (Full Validation)			
Accreditation: ☒ NELAP ☐ Other <u> </u>		Sampler: <u>4H</u>	
EDD (Type) <u> </u>		On Ice: ☒ Yes ☐ No	
		Sample Temperature: <u>1.0</u>	

☒ Standard ☐ Rush

Project Name: Carle / West Base

Project #:

Project Manager:

Sampler:

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.0

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
11/16	12:45	Soil	Carle 1 West Base	4oz jar	Cold	1604004-001

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

X	BTEX + MTBE + TMB's (8021)
	BTEX + MTBE + TPH (Gas only)
X	TPH 8015B (GRO / DRO / MRO) MT
	TPH (Method 418.1)
	EDB (Method 504.1)
	PAH's (8310 or 8270 SIMS)
	RCRA 8 Metals
	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)
	8081 Pesticides / 8082 PCB's
	8260B (VOA)
	8270 (Semi-VOA)
X	Chlorides
	Air Bubbles (Y or N)

ite:	Time:	Relinquished by:	Received by:	Date	Time
11/16	2:14	[Signature]	Christine Walter	3/31/16	1414
ite:	Time:	Relinquished by:	Received by:	Date	Time
11/16	1747	Christine Walters	Det. Asst	04/01/16	0730

Remarks:

KGARCIA
#20637642

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Analytical Report

Report Summary

Client: ConocoPhillips

Chain Of Custody Number:

Samples Received: 3/12/2015 4:46:00PM

Job Number: 92115-2603

Work Order: P503040

Project Name/Location: Carle #1

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Date: 3/16/15

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: Carle #1
Project Number: 92115-2603
Project Manager: Greg Crabtree

Reported:
16-Mar-15 15:15

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
South Wall	P503040-01A	Soil	03/12/15	03/12/15	Glass Jar, 4 oz.
North West Wall	P503040-02A	Soil	03/12/15	03/12/15	Glass Jar, 4 oz.
Far East Wall	P503040-03A	Soil	03/12/15	03/12/15	Glass Jar, 4 oz.
East Bottom	P503040-04A	Soil	03/12/15	03/12/15	Glass Jar, 4 oz.
West Bottom	P503040-05A	Soil	03/12/15	03/12/15	Glass Jar, 4 oz.
West Wall +3'	P503040-06A	Soil	03/12/15	03/12/15	Glass Jar, 4 oz.
NE Wall +2'	P503040-07A	Soil	03/12/15	03/12/15	Glass Jar, 4 oz.

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5796 US Highway 64, Farmington, NM 87401

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865

Ph (970) 259-0615 Fr (800) 362-1879

envirotech-inc.com
laboratory@envirotech-inc.com

ConocoPhillips
 PO Box 2200
 Bartlesville OK, 74005

 Project Name: Carle #1
 Project Number: 92115-2603
 Project Manager: Greg Crabtree

 Reported:
 16-Mar-15 15:15

South Wall
P503040-01 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.10	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		87.6 %		50-150	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	9.98	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8015D	
Diesel Range Organics (C10-C28)	99.6	24.9	mg/kg	1	1511020	03/13/15	03/13/15	03/13/15	EPA 8015D	
Surrogate: o-Terphenyl		134 %		50-200	1511020	03/13/15	03/13/15	03/13/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		82.2 %		50-150	1511021	03/13/15	03/13/15	03/13/15	EPA 8015D	
Cation/Anion Analysis										
Chloride	124	9.95	mg/kg	1	1511022	03/13/15	03/13/15	03/13/15	EPA 300.0	

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ConocoPhillips
 PO Box 2200
 Bartlesville OK, 74005

 Project Name: Carle #1
 Project Number: 92115-2603
 Project Manager: Greg Crabtree

 Reported:
 16-Mar-15 15:15

North West Wall
P503040-02 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.10	mg/kg	1		1511021	03/13/15	03/13/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1		1511021	03/13/15	03/13/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1		1511021	03/13/15	03/13/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1		1511021	03/13/15	03/13/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1		1511021	03/13/15	03/13/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1		1511021	03/13/15	03/13/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1		1511021	03/13/15	03/13/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		89.4 %		50-150		1511021	03/13/15	03/13/15	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg	1		1511021	03/13/15	03/13/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1		1511020	03/13/15	03/13/15	EPA 8015D	
Surrogate: o-Terphenyl		115 %		50-200		1511020	03/13/15	03/13/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		83.3 %		50-150		1511021	03/13/15	03/13/15	EPA 8015D	
Cation/Anion Analysis										
Chloride	510	9.97	mg/kg	1		1511022	03/13/15	03/13/15	EPA 300.0	

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ConocoPhillips
 PO Box 2200
 Bartlesville OK, 74005

 Project Name: Carle #1
 Project Number: 92115-2603
 Project Manager: Greg Crabtree

Reported:
 16-Mar-15 15:15

Far East Wall
P503040-03 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.10	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		90.0 %		50-150	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	9.97	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8015D	
Diesel Range Organics (C10-C28)	30.0	25.0	mg/kg	1	1511020	03/13/15	03/13/15	03/13/15	EPA 8015D	
Surrogate: o-Terphenyl		112 %		50-200	1511020	03/13/15	03/13/15	03/13/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		85.0 %		50-150	1511021	03/13/15	03/13/15	03/13/15	EPA 8015D	
Cation/Anion Analysis										
Chloride	78.5	9.96	mg/kg	1	1511022	03/13/15	03/13/15	03/13/15	EPA 300.0	

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 Project Name: Carle #1
 Project Number: 92115-2603
 Project Manager: Greg Crabtree

 Reported:
 16-Mar-15 15:15

East Bottom
P503040-04 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.10	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
Toluene	0.11	0.10	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
Ethylbenzene	0.12	0.10	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
p,m-Xylene	0.72	0.20	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
o-Xylene	0.27	0.10	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
Total Xylenes	0.99	0.10	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
Total BTEX	1.22	0.10	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		96.2 %		50-150	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	16.8	9.99	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8015D	
Diesel Range Organics (C10-C28)	195	25.0	mg/kg	1	1511020	03/13/15	03/13/15	03/13/15	EPA 8015D	
Surrogate: o-Terphenyl		123 %		50-200	1511020	03/13/15	03/13/15	03/13/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		88.7 %		50-150	1511021	03/13/15	03/13/15	03/13/15	EPA 8015D	
Cation/Anion Analysis										
Chloride	88.0	9.80	mg/kg	1	1511022	03/13/15	03/13/15	03/13/15	EPA 300.0	

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Project Name: Carle #1
Project Number: 92115-2603
Project Manager: Greg Crabtree

Reported:
16-Mar-15 15:15

West Bottom
P503040-05 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.10	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
p,m-Xylene	0.27	0.20	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
o-Xylene	0.11	0.10	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
Total Xylenes	0.38	0.10	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
Total BTEX	0.38	0.10	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		98.7 %		50-150	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	9.96	9.96	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8015D	
Diesel Range Organics (C10-C28)	165	24.9	mg/kg	1	1511020	03/13/15	03/13/15	03/13/15	EPA 8015D	
Surrogate: o-Terphenyl		113 %		50-200	1511020	03/13/15	03/13/15	03/13/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		95.2 %		50-150	1511021	03/13/15	03/13/15	03/13/15	EPA 8015D	
Cation/Anion Analysis										
Chloride	71.5	9.14	mg/kg	0.9	1511022	03/13/15	03/13/15	03/13/15	EPA 300.0	

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ConocoPhillips
 PO Box 2200
 Bartlesville OK, 74005

 Project Name: Carle #1
 Project Number: 92115-2603
 Project Manager: Greg Crabtree

Reported:
 16-Mar-15 15:15

West Wall +3'
P503040-06 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.10	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
p,m-Xylene	0.23	0.20	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
o-Xylene	0.16	0.10	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
Total Xylenes	0.39	0.10	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
Total BTEX	0.39	0.10	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		86.1 %		50-150	1511021	03/13/15	03/13/15	03/13/15	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	9.98	mg/kg	1	1511021	03/13/15	03/13/15	03/13/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1511020	03/13/15	03/13/15	03/13/15	EPA 8015D	
Surrogate: o-Terphenyl		104 %		50-200	1511020	03/13/15	03/13/15	03/13/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		81.2 %		50-150	1511021	03/13/15	03/13/15	03/13/15	EPA 8015D	
Cation/Anion Analysis										
Chloride	169	9.96	mg/kg	1	1511022	03/13/15	03/13/15	03/13/15	EPA 300.0	

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 Project Name: Carle #1
 Project Number: 92115-2603
 Project Manager: Greg Crabtree

 Reported:
 16-Mar-15 15:15

NE Wall +2'
P503040-07 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1511021	03/13/15	03/13/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1511021	03/13/15	03/13/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1511021	03/13/15	03/13/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1511021	03/13/15	03/13/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1511021	03/13/15	03/13/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1511021	03/13/15	03/13/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1511021	03/13/15	03/13/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		85.9 %		50-150	1511021	03/13/15	03/13/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.98	mg/kg	1	1511021	03/13/15	03/13/15	EPA 8015D	
Diesel Range Organics (C10-C28)	71.8	24.9	mg/kg	1	1511020	03/13/15	03/13/15	EPA 8015D	
Surrogate: o-Terphenyl		115 %		50-200	1511020	03/13/15	03/13/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		81.1 %		50-150	1511021	03/13/15	03/13/15	EPA 8015D	
Cation/Anion Analysis									
Chloride	273	9.91	mg/kg	1	1511022	03/13/15	03/13/15	EPA 300.0	

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Project Name: Carle #1
Project Number: 92115-2603
Project Manager: Greg Crabtree

Reported:
16-Mar-15 15:15

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1511021 - Purge and Trap EPA 5030A

Blank (1511021-BLK1)

Prepared & Analyzed: 13-Mar-15

Benzene	ND	0.10	mg/kg							
Toluene	ND	0.10	"							
Ethylbenzene	ND	0.10	"							
p,m-Xylene	ND	0.20	"							
o-Xylene	ND	0.10	"							
Total Xylenes	ND	0.10	"							
Total BTEX	ND	0.10	"							
Surrogate: 4-Bromochlorobenzene-PID	0.346		"	0.400		86.5	50-150			

LCS (1511021-BS1)

Prepared & Analyzed: 13-Mar-15

Benzene	23.7	0.10	mg/kg	20.0		119	75-125			
Toluene	21.7	0.10	"	20.0		109	70-125			
Ethylbenzene	20.8	0.10	"	20.0		104	75-125			
p,m-Xylene	39.8	0.20	"	40.0		99.7	80-125			
o-Xylene	19.5	0.10	"	20.0		97.6	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.360		"	0.400		90.2	50-150			

Matrix Spike (1511021-MS1)

Source: P503040-01

Prepared & Analyzed: 13-Mar-15

Benzene	21.7	0.10	mg/kg	19.9	ND	109	75-125			
Toluene	21.4	0.10	"	19.9	ND	108	70-125			
Ethylbenzene	20.9	0.10	"	19.9	ND	105	75-125			
p,m-Xylene	41.3	0.20	"	39.9	ND	104	80-125			
o-Xylene	19.9	0.10	"	19.9	ND	99.8	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.368		"	0.399		92.3	50-150			

Matrix Spike Dup (1511021-MSD1)

Source: P503040-01

Prepared & Analyzed: 13-Mar-15

Benzene	21.4	0.10	mg/kg	20.0	ND	107	75-125	1.31	15	
Toluene	21.1	0.10	"	20.0	ND	105	70-125	1.70	15	
Ethylbenzene	20.3	0.10	"	20.0	ND	102	75-125	3.13	15	
p,m-Xylene	39.4	0.20	"	40.0	ND	98.6	80-125	4.76	15	
o-Xylene	19.2	0.10	"	20.0	ND	96.1	75-125	3.51	15	
Surrogate: 4-Bromochlorobenzene-PID	0.365		"	0.400		91.2	50-150			

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ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: Carle #1
Project Number: 92115-2603
Project Manager: Greg Crabtree

Reported:
16-Mar-15 15:15

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1511020 - DRO Extraction EPA 3550M										
Blank (1511020-BLK1)				Prepared & Analyzed: 13-Mar-15						
Diesel Range Organics (C10-C28)	ND	24.9	mg/kg							
Surrogate: o-Terphenyl	44.2		"	39.9		111	50-200			
LCS (1511020-BS1)				Prepared & Analyzed: 13-Mar-15						
Diesel Range Organics (C10-C28)	560	24.9	mg/kg	499		112	38-132			
Surrogate: o-Terphenyl	48.1		"	39.9		121	50-200			
Matrix Spike (1511020-MS1)				Source: P503040-01 Prepared & Analyzed: 13-Mar-15						
Diesel Range Organics (C10-C28)	669	24.9	mg/kg	498	99.6	114	38-132			
Surrogate: o-Terphenyl	50.6		"	39.8		127	50-200			
Matrix Spike Dup (1511020-MSD1)				Source: P503040-01 Prepared & Analyzed: 13-Mar-15						
Diesel Range Organics (C10-C28)	670	25.0	mg/kg	499	99.6	114	38-132	0.161	20	
Surrogate: o-Terphenyl	49.1		"	40.0		123	50-200			

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Project Name: Carle #1
Project Number: 92115-2603
Project Manager: Greg Crabtree

Reported:
16-Mar-15 15:15

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1511021 - Purge and Trap EPA 5030A										
Blank (1511021-BLK1)				Prepared & Analyzed: 13-Mar-15						
Gasoline Range Organics (C6-C10)	ND	10.0	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.326		"	0.400		81.6	50-150			
LCS (1511021-BS1)				Prepared & Analyzed: 13-Mar-15						
Gasoline Range Organics (C6-C10)	259	9.99	mg/kg	266		97.4	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.341		"	0.400		85.2	50-150			
Matrix Spike (1511021-MS1)				Source: P503040-01		Prepared & Analyzed: 13-Mar-15				
Gasoline Range Organics (C6-C10)	263	9.97	mg/kg	266	ND	98.9	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.345		"	0.399		86.6	50-150			
Matrix Spike Dup (1511021-MSD1)				Source: P503040-01		Prepared & Analyzed: 13-Mar-15				
Gasoline Range Organics (C6-C10)	255	10.0	mg/kg	266	ND	95.6	75-125	3.21	15	
Surrogate: 4-Bromochlorobenzene-FID	0.343		"	0.400		85.9	50-150			

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Project Name: Carle #1
Project Number: 92115-2603
Project Manager: Greg Crabtree

Reported:
16-Mar-15 15:15

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1511022 - Anion Extraction EPA 300.0										
Blank (1511022-BLK1)				Prepared & Analyzed: 13-Mar-15						
Chloride	ND	9.50	mg/kg							
LCS (1511022-BS1)				Prepared & Analyzed: 13-Mar-15						
Chloride	460	9.89	mg/kg	495		93.0	90-110			
Matrix Spike (1511022-MS1)				Prepared & Analyzed: 13-Mar-15						
Chloride	495	9.68	mg/kg	484	124	76.7	80-120			SPK1
Matrix Spike Dup (1511022-MSD1)				Prepared & Analyzed: 13-Mar-15						
Chloride	625	9.94	mg/kg	497	124	101	80-120	23.1	20	D1

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ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: Carle #1
Project Number: 92115-2603
Project Manager: Greg Crabtree

Reported:
16-Mar-15 15:15

Notes and Definitions

SPK1 The spike recovery is outside of quality control limits.

D1 Duplicates or Matrix Spike Duplicates Relative Percent Difference is outside of control limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

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Client: ConocoPhillipsProject: Carle #1Sampler: B. Garcia

Phone:

Email(s): B. GarciaProject Manager: Craig Crabtree

RUSH?

☒ 1d
☐ 3d

Lab Use Only

Lab WO#

P 503040

Job Number

92115-2603

Analysis and Method

lab Only

Page 1 of 1

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0						Lab Number	Correct Cont/Prsrv (s) Y/N
South Wall	3/12/15	11:47	S	1-402/G/001	X	X		X						1	Y
North West Wall		11:53												2	
Far East Wall		11:59												3	
East Bottom		12:02												4	
West Bottom		12:05												5	
West Wall + 3'		12:40												6	
NE Wall + 2'		12:50												7	

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only		
	3/12/15	16:46		3/12/15	16:46	**Received on Ice Y / N		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 16.9	T2 18.7	T3 18.6
						AVG Temp °C 18.1		

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass

**Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

☐ Sample(s) dropped off after hours to a secure drop off area. Chain of Custody Notes/Billing Info:



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Page 15 of 15



Analytical Report

Report Summary

Client: ConocoPhillips

Chain Of Custody Number:

Samples Received: 3/19/2015 8:47:00AM

Job Number: 92115-2603

Work Order: P503055

Project Name/Location: Carle #1

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Date: 3/23/15

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: Carle #1
Project Number: 92115-2603
Project Manager: Greg Crabtree

Reported:
23-Mar-15 14:48

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
West Bottom	P503055-01A	Soil	03/19/15	03/19/15	Glass Jar, 4 oz.
East Bottom	P503055-02A	Soil	03/19/15	03/19/15	Glass Jar, 4 oz.

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ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: Carle #1
Project Number: 92115-2603
Project Manager: Greg Crabtree

Reported:
23-Mar-15 14:48

West Bottom
P503055-01 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	0.85	0.10	mg/kg	1		1512018	03/19/15	03/20/15	EPA 8021B	
Toluene	1.26	0.10	mg/kg	1		1512018	03/19/15	03/20/15	EPA 8021B	
Ethylbenzene	1.14	0.10	mg/kg	1		1512018	03/19/15	03/20/15	EPA 8021B	
p,m-Xylene	4.86	0.20	mg/kg	1		1512018	03/19/15	03/20/15	EPA 8021B	
o-Xylene	1.69	0.10	mg/kg	1		1512018	03/19/15	03/20/15	EPA 8021B	
Total Xylenes	6.55	0.10	mg/kg	1		1512018	03/19/15	03/20/15	EPA 8021B	
Total BTEX	9.81	0.10	mg/kg	1		1512018	03/19/15	03/20/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		94.7 %		50-150		1512018	03/19/15	03/20/15	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	63.2	9.97	mg/kg	1		1512018	03/19/15	03/20/15	EPA 8015D	
Diesel Range Organics (C10-C28)	376	24.6	mg/kg	1		1512019	03/19/15	03/19/15	EPA 8015D	
Surrogate: o-Terphenyl		115 %		50-200		1512019	03/19/15	03/19/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		92.6 %		50-150		1512018	03/19/15	03/20/15	EPA 8015D	
Cation/Anion Analysis										
Chloride	143	9.94	mg/kg	1		1512016	03/19/15	03/19/15	EPA 300.0	

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ConocoPhillips
 PO Box 2200
 Bartlesville OK, 74005

 Project Name: Carle #1
 Project Number: 92115-2603
 Project Manager: Greg Crabtree

Reported:
 23-Mar-15 14:48

East Bottom
P503055-02 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.10	mg/kg	1		1512018	03/19/15	03/20/15	EPA 8021B	
Toluene	0.59	0.10	mg/kg	1		1512018	03/19/15	03/20/15	EPA 8021B	
Ethylbenzene	0.19	0.10	mg/kg	1		1512018	03/19/15	03/20/15	EPA 8021B	
p,m-Xylene	2.51	0.20	mg/kg	1		1512018	03/19/15	03/20/15	EPA 8021B	
o-Xylene	0.58	0.10	mg/kg	1		1512018	03/19/15	03/20/15	EPA 8021B	
Total Xylenes	3.09	0.10	mg/kg	1		1512018	03/19/15	03/20/15	EPA 8021B	
Total BTEX	3.87	0.10	mg/kg	1		1512018	03/19/15	03/20/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		94.0 %		50-150		1512018	03/19/15	03/20/15	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	43.5	9.97	mg/kg	1		1512018	03/19/15	03/20/15	EPA 8015D	
Diesel Range Organics (C10-C28)	279	24.8	mg/kg	1		1512019	03/19/15	03/19/15	EPA 8015D	
Surrogate: o-Terphenyl		109 %		50-200		1512019	03/19/15	03/19/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		90.8 %		50-150		1512018	03/19/15	03/20/15	EPA 8015D	
Cation/Anion Analysis										
Chloride	93.0	9.38	mg/kg	0.9		1512016	03/19/15	03/19/15	EPA 300.0	

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ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: Carle #1
Project Number: 92115-2603
Project Manager: Greg Crabtree

Reported:
23-Mar-15 14:48

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1512018 - Purge and Trap EPA 5030A

Blank (1512018-BLK1)

Prepared: 19-Mar-15 Analyzed: 23-Mar-15

Benzene	ND	0.10	mg/kg							
Toluene	ND	0.10	"							
Ethylbenzene	ND	0.10	"							
p,m-Xylene	ND	0.20	"							
o-Xylene	ND	0.10	"							
Total Xylenes	ND	0.10	"							
Total BTEX	ND	0.10	"							

Surrogate: 4-Bromochlorobenzene-PID 0.369 " 0.395 93.3 50-150

LCS (1512018-BS1)

Prepared: 19-Mar-15 Analyzed: 23-Mar-15

Benzene	20.8	0.10	mg/kg	19.8		105	75-125			
Toluene	20.6	0.10	"	19.8		104	70-125			
Ethylbenzene	20.1	0.10	"	19.8		101	75-125			
p,m-Xylene	39.6	0.20	"	39.6		100	80-125			
o-Xylene	19.1	0.10	"	19.8		96.6	75-125			

Surrogate: 4-Bromochlorobenzene-PID 0.375 " 0.396 94.6 50-150

Matrix Spike (1512018-MS1)

Source: P503055-01

Prepared: 19-Mar-15 Analyzed: 23-Mar-15

Benzene	20.6	0.10	mg/kg	19.9	0.85	98.9	75-125			
Toluene	21.4	0.10	"	19.9	1.26	101	70-125			
Ethylbenzene	20.7	0.10	"	19.9	1.14	98.3	75-125			
p,m-Xylene	44.4	0.20	"	39.9	4.86	99.1	80-125			
o-Xylene	21.1	0.10	"	19.9	1.69	97.4	75-125			

Surrogate: 4-Bromochlorobenzene-PID 0.423 " 0.399 106 50-150

Matrix Spike Dup (1512018-MSD1)

Source: P503055-01

Prepared: 19-Mar-15 Analyzed: 23-Mar-15

Benzene	20.0	0.10	mg/kg	19.7	0.85	97.2	75-125	2.68	15	
Toluene	20.8	0.10	"	19.7	1.26	98.9	70-125	3.12	15	
Ethylbenzene	20.8	0.10	"	19.7	1.14	99.9	75-125	0.445	15	
p,m-Xylene	44.3	0.20	"	39.4	4.86	100	80-125	0.128	15	
o-Xylene	20.6	0.10	"	19.7	1.69	96.0	75-125	2.32	15	

Surrogate: 4-Bromochlorobenzene-PID 0.394 " 0.394 99.9 50-150

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ConocoPhillips
 PO Box 2200
 Bartlesville OK, 74005

 Project Name: Carle #1
 Project Number: 92115-2603
 Project Manager: Greg Crabtree

 Reported:
 23-Mar-15 14:48

Nonhalogenated Organics by 8015 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1512018 - Purge and Trap EPA 5030A										
Blank (1512018-BLK1)				Prepared: 19-Mar-15 Analyzed: 23-Mar-15						
Gasoline Range Organics (C6-C10)	ND	9.87	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.354		"	0.395		89.7	50-150			
LCS (1512018-BS1)				Prepared: 19-Mar-15 Analyzed: 23-Mar-15						
Gasoline Range Organics (C6-C10)	262	9.90	mg/kg	264		99.3	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.361		"	0.396		91.0	50-150			
Matrix Spike (1512018-MS1)				Source: P503055-01		Prepared: 19-Mar-15 Analyzed: 23-Mar-15				
Gasoline Range Organics (C6-C10)	319	9.96	mg/kg	266	63.2	96.5	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.404		"	0.399		101	50-150			
Matrix Spike Dup (1512018-MSD1)				Source: P503055-01		Prepared: 19-Mar-15 Analyzed: 23-Mar-15				
Gasoline Range Organics (C6-C10)	313	9.85	mg/kg	263	63.2	95.0	75-125	2.18	15	
Surrogate: 4-Bromochlorobenzene-FID	0.376		"	0.394		95.4	50-150			

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ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: Carle #1
Project Number: 92115-2603
Project Manager: Greg Crabtree

Reported:
23-Mar-15 14:48

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1512019 - DRO Extraction EPA 3550M										
Blank (1512019-BLK1)				Prepared & Analyzed: 19-Mar-15						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: o-Terphenyl	42.7		"	40.0		107	50-200			
LCS (1512019-BS1)				Prepared & Analyzed: 19-Mar-15						
Diesel Range Organics (C10-C28)	489	24.7	mg/kg	495		98.9	38-132			
Surrogate: o-Terphenyl	40.3		"	39.6		102	50-200			
Matrix Spike (1512019-MS1)				Source: P503055-01		Prepared & Analyzed: 19-Mar-15				
Diesel Range Organics (C10-C28)	1400	29.6	mg/kg	494	376	208	38-132			SPK1
Surrogate: o-Terphenyl	62.9		"	39.5		159	50-200			
Matrix Spike Dup (1512019-MSD1)				Source: P503055-01		Prepared & Analyzed: 19-Mar-15				
Diesel Range Organics (C10-C28)	895	29.9	mg/kg	498	376	104	38-132	44.2	20	D1
Surrogate: o-Terphenyl	53.3		"	39.8		134	50-200			

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ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: Carle #1
Project Number: 92115-2603
Project Manager: Greg Crabtree

Reported:
23-Mar-15 14:48

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1512016 - Anion Extraction EPA 300.0										
Blank (1512016-BLK1)				Prepared & Analyzed: 18-Mar-15						
Chloride	ND	9.58	mg/kg							
LCS (1512016-BS1)				Prepared & Analyzed: 18-Mar-15						
Chloride	420	9.17	mg/kg	459		91.5	90-110			
Matrix Spike (1512016-MS1)				Source: P503035-01 Prepared & Analyzed: 18-Mar-15						
Chloride	443	9.48	mg/kg	474	10.0	91.3	80-120			
Matrix Spike Dup (1512016-MSD1)				Source: P503035-01 Prepared & Analyzed: 18-Mar-15						
Chloride	460	9.81	mg/kg	491	10.0	91.6	80-120	3.75	20	

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ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: Carle #1
Project Number: 92115-2603
Project Manager: Greg Crabtree

Reported:
23-Mar-15 14:48

Notes and Definitions

SPK1 The spike recovery is outside of quality control limits.

D1 Duplicates or Matrix Spike Duplicates Relative Percent Difference is outside of control limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

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Project Manager: Grey Crabtree

1d
3d

92115-2603

Page 1 of 1

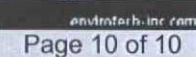
Containers
POL/TYPE/Preservative

Lab Number

Correct Cont/Prsrv (s) Y/N

Relinquished by: (Signature) 	Date 3/19/15	Time 8:47	Received by: (Signature) 	Date 3/19/15	Time 847	Lab Use Only **Received on Ice Y / N T1 <u>16.9</u> T2 <u>16.9</u> T3 _____ AVG Temp °C <u>16.9</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

Notes/Billing info:





Analytical Report

Report Summary

Client: ConocoPhillips

Chain Of Custody Number:

Samples Received: 5/20/2015 3:10:00PM

Job Number: 92115-2603

Work Order: P505054

Project Name/Location: Carle #1

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Tim Cain, Laboratory Manager

Date: 6/2/15

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ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: Carle #1
Project Number: 92115-2603
Project Manager: Sheena Leon

Reported:
02-Jun-15 11:04

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
East Bottom	P505054-01A	Soil	05/20/15	05/20/15	Glass Jar, 4 oz.
West Bottom	P505054-02A	Soil	05/20/15	05/20/15	Glass Jar, 4 oz.

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ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: Carle #1
Project Number: 92115-2603
Project Manager: Sheena Leon

Reported:
02-Jun-15 11:04

East Bottom
P505054-01 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.82	mg/kg	1	1522011	05/29/15	06/01/15	EPA 8015D	
Diesel Range Organics (C10-C28)	86.4	34.5	mg/kg	1	1522010	05/29/15	06/01/15	EPA 8015D	
Surrogate: o-Terphenyl		114 %		50-200	1522010	05/29/15	06/01/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		95.0 %		50-150	1522011	05/29/15	06/01/15	EPA 8015D	

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ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: Carle #1
Project Number: 92115-2603
Project Manager: Sheena Leon

Reported:
02-Jun-15 11:04

West Bottom
P505054-02 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	107	9.50	mg/kg	1	1522011	05/29/15	06/01/15	EPA 8015D	
Diesel Range Organics (C10-C28)	118	34.7	mg/kg	1	1522010	05/29/15	06/01/15	EPA 8015D	
Surrogate: o-Terphenyl		98.3 %		50-200	1522010	05/29/15	06/01/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		91.9 %		50-150	1522011	05/29/15	06/01/15	EPA 8015D	

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ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: Carle #1
Project Number: 92115-2603
Project Manager: Sheena Leon

Reported:
02-Jun-15 11:04

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1522010 - DRO Extraction EPA 3550M										
Blank (1522010-BLK1)				Prepared & Analyzed: 29-May-15						
Diesel Range Organics (C10-C28)	ND	23.6	mg/kg							
Surrogate: o-Terphenyl	33.0		"	37.8		87.3	50-200			
LCS (1522010-BS1)				Prepared & Analyzed: 29-May-15						
Diesel Range Organics (C10-C28)	538	23.8	mg/kg	475		113	38-132			
Surrogate: o-Terphenyl	32.8		"	38.0		86.2	50-200			
Matrix Spike (1522010-MS1)				Source: P505074-01		Prepared & Analyzed: 29-May-15				
Diesel Range Organics (C10-C28)	527	24.3	mg/kg	486	ND	108	38-132			
Surrogate: o-Terphenyl	33.9		"	38.9		87.3	50-200			
Matrix Spike Dup (1522010-MSD1)				Source: P505074-01		Prepared & Analyzed: 29-May-15				
Diesel Range Organics (C10-C28)	514	27.3	mg/kg	454	ND	113	38-132	2.36	20	
Surrogate: o-Terphenyl	33.9		"	36.4		93.1	50-200			

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ConocoPhillips
 PO Box 2200
 Bartlesville OK, 74005

 Project Name: Carle #1
 Project Number: 92115-2603
 Project Manager: Sheena Leon

Reported:
 02-Jun-15 11:04

Nonhalogenated Organics by 8015 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1522011 - Purge and Trap EPA 5030A										
Blank (1522011-BLK1)				Prepared: 29-May-15 Analyzed: 01-Jun-15						
Gasoline Range Organics (C6-C10)	ND	9.11	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.414		"	0.364		114	50-150			
LCS (1522011-BS1)				Prepared: 29-May-15 Analyzed: 01-Jun-15						
Gasoline Range Organics (C6-C10)	255	9.66	mg/kg	257		99.2	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.415		"	0.386		107	50-150			
Matrix Spike (1522011-MS1)				Source: P505074-01		Prepared: 29-May-15 Analyzed: 01-Jun-15				
Gasoline Range Organics (C6-C10)	289	9.27	mg/kg	247	ND	117	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.374		"	0.371		101	50-150			
Matrix Spike Dup (1522011-MSD1)				Source: P505074-01		Prepared: 29-May-15 Analyzed: 01-Jun-15				
Gasoline Range Organics (C6-C10)	318	10.1	mg/kg	269	ND	118	75-125	9.50	15	
Surrogate: 4-Bromochlorobenzene-FID	0.397		"	0.404		98.1	50-150			

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Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

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Project Manager: S. Leon

3d

92115-2603

Lab Number

Correct Cont/Prsrv (s) Y/N

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