

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DEC 09 2013

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

Farmington Field Office
Bureau of Land Management

5. Lease Serial No. **SF-078214**

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2.

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.

McCord 12E

2. Name of Operator

Burlington Resources Oil & Gas Company LP

9. API Well No.

30-045-26301

3a. Address

PO Box 4289, Farmington, NM 87499

3b. Phone No. (include area code)

(505) 326-9700

10. Field and Pool or Exploratory Area

Basin Dakota

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Unit O (SWSE), 1093' FSL & 1748' FEL, Sec. 33, T30N, R13W

11. Country or Parish, State

San Juan New Mexico

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION

TYPE OF ACTION

☐ Notice of Intent

☐ Acidize

☐ Deepen

☐ Production (Start/Resume)

☐ Water Shut-Off

☒ Subsequent Report

☐ Alter Casing

☐ Fracture Treat

☐ Reclamation

☐ Well Integrity

☐ Casing Repair

☐ New Construction

☐ Recomplete

☒ Other

☐ Change Plans

☐ Plug and Abandon

☐ Temporarily Abandon

Landfarm Closure

☐ Final Abandonment Notice

☐ Convert to Injection

☐ Plug Back

☐ Water Disposal

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof.

If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once Testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Burlington Resources Oil & Gas Company, LP discovered a landfarm on the subject location in June. The landfarm was sampled on 6/14/13 with the results attached. Closure notification was sent to the BLM on 8/29/2013. The landfarm was closed 8/30/13 with the berms and gravel being spread on the road and the clean material was used to contour the location. Pictures of the completed work are attached.

**RCVD DEC 16 '13
OIL CONS. DIV.
DIST. 3**

ACCEPTED FOR RECORD

DEC 10 2013

**FARMINGTON FIELD OFFICE
BY [Signature]**

JDK 1/2/2013

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Crystal Tafoya

Field Environmental Specialist

Title

Signature

Crystal Tafoya

Date

11/26/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

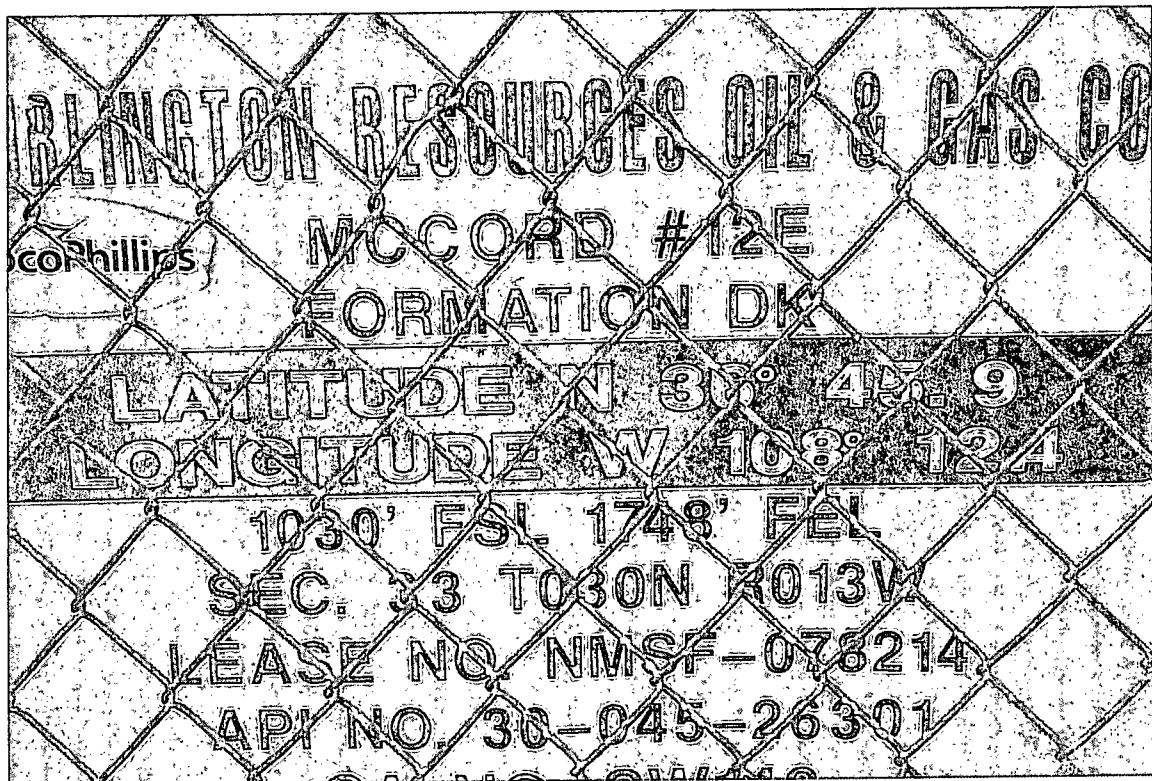
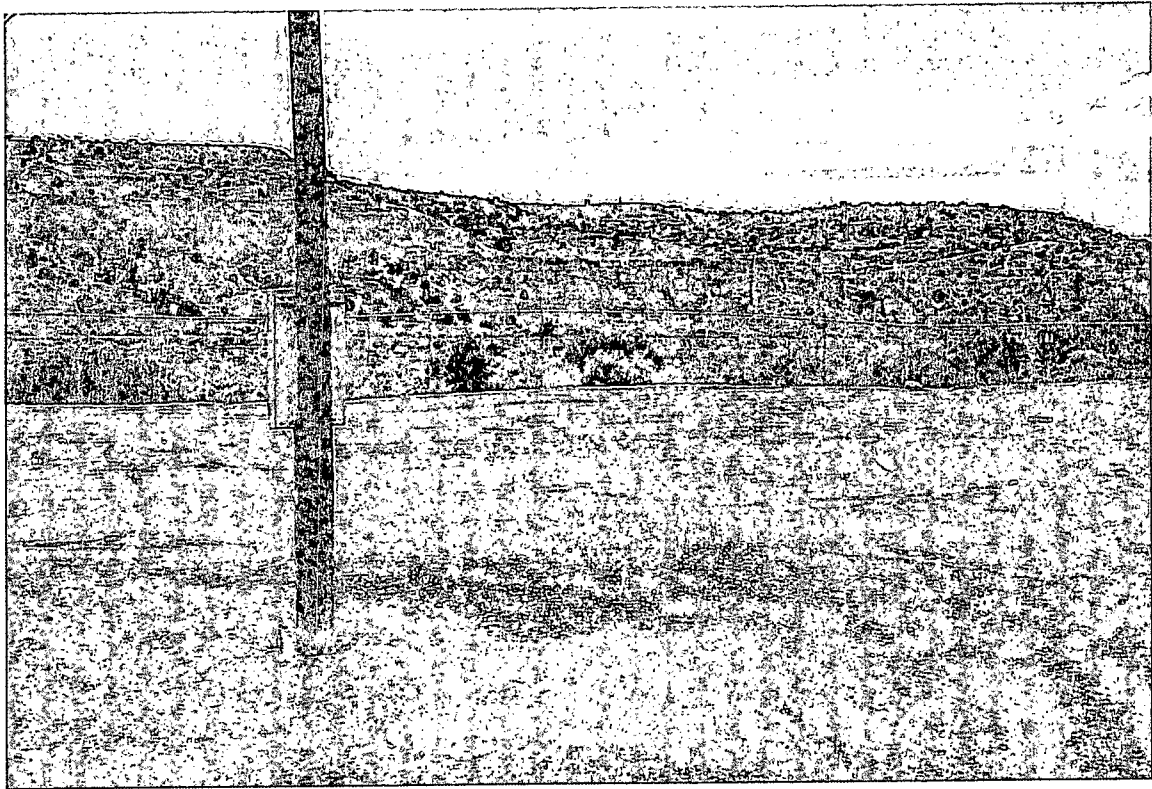
Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.





Analytical Report

Report Summary

Client: ConocoPhillips

Chain Of Custody Number: 15664

Samples Received: 6/14/2013 8:30:00AM

Job Number: 96052-1706

Work Order: P306067

Project Name/Location: McCord 12E

Entire Report Reviewed By:

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

Date: 6/23/13

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: McCord 12E
Project Number: 96052-1706
Project Manager: Crystal Tafoya

Reported:
23-Jun-13 18:21

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
McCord 12E	P306067-01A	Soil	06/14/13	06/14/13	Glass Jar, 4 oz.

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ConocoPhillips	Project Name:	McCord 12E	Reported: 23-Jun-13 18:21
PO Box 2200	Project Number:	96052-1706	
Bartlesville OK, 74005	Project Manager:	Crystal Tafoya	

McCord 12E
P306067-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1325007	17-Jun-13	23-Jun-13	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1325007	17-Jun-13	23-Jun-13	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1325007	17-Jun-13	23-Jun-13	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1325007	17-Jun-13	23-Jun-13	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1325007	17-Jun-13	23-Jun-13	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1325007	17-Jun-13	23-Jun-13	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1325007	17-Jun-13	23-Jun-13	EPA 8021B	
<i>Surrogate: Bromochlorobenzene</i>		103 %	80-120		1325007	17-Jun-13	23-Jun-13	EPA 8021B	
<i>Surrogate: 1,4-Difluorobenzene</i>		102 %	80-120		1325007	17-Jun-13	23-Jun-13	EPA 8021B	
<i>Surrogate: Fluorobenzene</i>		103 %	80-120		1325007	17-Jun-13	23-Jun-13	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.95	mg/kg	1	1325009	17-Jun-13	21-Jun-13	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	4.95	mg/kg	1	1325009	17-Jun-13	21-Jun-13	EPA 8015D	
GRO and DRO Combined Fractions	ND	4.95	mg/kg	1	1325009	17-Jun-13	21-Jun-13	EPA 8015D	
Total Petroleum Hydrocarbons by 418.1									
Total Petroleum Hydrocarbons	3210	39.9	mg/kg	2	1324038	14-Jun-13	14-Jun-13	EPA 418.1	
Cation/Anion Analysis									
Chloride	ND	10.0	mg/kg	1	1325006	17-Jun-13	17-Jun-13	EPA 300.0	

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ConocoPhillips	Project Name:	McCord 12E	Reported: 23-Jun-13 18:21
PO Box 2200	Project Number:	96052-1706	
Bartlesville OK, 74005	Project Manager:	Crystal Tafoya	

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 1325007 - Purge and Trap EPA 5030A

Blank (1325007-BLK1)

Prepared: 17-Jun-13 Analyzed: 23-Jun-13

Benzene	ND	0.05	mg/kg						
Toluene	ND	0.05	"						
Ethylbenzene	ND	0.05	"						
p,m-Xylene	ND	0.05	"						
o-Xylene	ND	0.05	"						
Total Xylenes	ND	0.05	"						
Total BTEX	ND	0.05	"						
Surrogate: Bromochlorobenzene	54.5		ug/L	50.0		109	80-120		
Surrogate: 1,4-Difluorobenzene	50.8		"	50.0		102	80-120		
Surrogate: Fluorobenzene	51.0		"	50.0		102	80-120		

Duplicate (1325007-DUP1)

Source: P306067-01

Prepared: 17-Jun-13 Analyzed: 23-Jun-13

Benzene	ND	0.05	mg/kg		ND			30	
Toluene	ND	0.05	"		ND			30	
Ethylbenzene	ND	0.05	"		ND			30	
p,m-Xylene	ND	0.05	"		ND			30	
o-Xylene	ND	0.05	"		ND			30	
Surrogate: Bromochlorobenzene	48.3		ug/L	50.0		96.6	80-120		
Surrogate: 1,4-Difluorobenzene	51.5		"	50.0		103	80-120		
Surrogate: Fluorobenzene	53.8		"	50.0		108	80-120		

Matrix Spike (1325007-MS1)

Source: P306067-01

Prepared: 17-Jun-13 Analyzed: 23-Jun-13

Benzene	0.05	0.001	mg/kg	0.0498	ND	108	39-150		
Toluene	0.05	0.001	"	0.0498	ND	99.0	46-148		
Ethylbenzene	0.05	0.001	"	0.0498	ND	95.6	32-160		
p,m-Xylene	0.10	0.001	"	0.0997	ND	100	46-148		
o-Xylene	0.05	0.001	"	0.0498	ND	97.6	46-148		
Surrogate: Bromochlorobenzene	49.1		ug/L	50.0		98.2	80-120		
Surrogate: 1,4-Difluorobenzene	54.9		"	50.0		110	80-120		
Surrogate: Fluorobenzene	56.0		"	50.0		112	80-120		

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ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: McCord 12E
Project Number: 96052-1706
Project Manager: Crystal Tafoya

Reported:
23-Jun-13 18:21

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
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Batch 1325009 - GRO/DRO Extraction EPA 3550C

Blank (1325009-BLK1)

Prepared: 17-Jun-13 Analyzed: 21-Jun-13

Gasoline Range Organics (C6-C10)	ND	4.93	mg/kg
Diesel Range Organics (C10-C28)	ND	4.93	"
GRO and DRO Combined Fractions	ND	4.93	"

Duplicate (1325009-DUP1)

Source: P306067-01

Prepared: 17-Jun-13 Analyzed: 21-Jun-13

Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	ND	30
Diesel Range Organics (C10-C28)	ND	5.00	"	ND	30

Matrix Spike (1325009-MS1)

Source: P306067-01

Prepared: 17-Jun-13 Analyzed: 21-Jun-13

Gasoline Range Organics (C6-C10)	109	mg/L	250	0.64	43.2	75-125	SPK1
Diesel Range Organics (C10-C28)	290	"	250	4.03	114	75-125	

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ConocoPhillips	Project Name:	McCord 12E	Reported: 23-Jun-13 18:21
PO Box 2200	Project Number:	96052-1706	
Bartlesville OK, 74005	Project Manager:	Crystal Tafoya	

Total Petroleum Hydrocarbons by 418.1 - 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 1324038 - 418 Freon Extraction

Blank (1324038-BLK1)

Prepared & Analyzed: 14-Jun-13

Total Petroleum Hydrocarbons	ND	19.9	mg/kg
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Duplicate (1324038-DUP1)

Source: P306040-01

Prepared & Analyzed: 14-Jun-13

Total Petroleum Hydrocarbons	17000	160	mg/kg	17100	0.543	30
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Matrix Spike (1324038-MS1)

Source: P306040-01

Prepared & Analyzed: 14-Jun-13

Total Petroleum Hydrocarbons	19400	160	mg/kg	2000	17100	115	80-120
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ConocoPhillips	Project Name:	McCord 12E	Reported:
PO Box 2200	Project Number:	96052-1706	23-Jun-13 18:21
Bartlesville OK, 74005	Project Manager:	Crystal Tafoya	

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 1325006 - Anion Extraction EPA 300.0

Blank (1325006-BLK1)

Prepared & Analyzed: 17-Jun-13

Chloride ND 10.0 mg/kg

Duplicate (1325006-DUP1)

Source: P306075-01

Prepared & Analyzed: 17-Jun-13

Chloride 14000 99.9 mg/kg 14000 0.272 30

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ConocoPhillips
PO Box 2200
Bartlesville OK, 74005

Project Name: McCord 12E
Project Number: 96052-1706
Project Manager: Crystal Tafoya

Reported:
23-Jun-13 18:21

Notes and Definitions

SPK I The spike recovery for this QC sample 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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CHAIN OF CUSTODY RECORD

15664

Page 9 of 9

Client: ConocoPhillips			Project Name / Location: McCord 12E			ANALYSIS / PARAMETERS													
Email results to: Crystal.tafaya@cop.com			Sampler Name: C. Tafaya			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	PCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Client Phone No.: 505-326-9837			Client No.: 96052-1706																
Sample No. / Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative														
					HNO ₃	HCl													
McCord 12E	6/14/13	7:50AM	P306067-01	1-4oz			X	X	X						X	X			X
Relinquished by: (Signature) Crystal Tafaya					Date 6/14	Time 8:30AM	Received by: (Signature) Lin Amgoe										Date 6/14/13	Time 8:30	
Relinquished by: (Signature)							Received by: (Signature)												
Sample Matrix: Soil <input checked="" type="checkbox"/> Solid <input type="checkbox"/> Sludge <input type="checkbox"/> Aqueous <input type="checkbox"/> Other <input type="checkbox"/>																			
<input type="checkbox"/> Sample(s) dropped off after hours to secure drop off area. Amo2331814 BEVALE																			
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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

August 20, 2013

Crystal Tafoya
Conoco Phillips
5525 Hwy 64 (3401 E. 30th St)
Farmington, NM 87402
TEL: (505) 215-4361
FAX

RE: McCord #12E

OrderNo.: 1308627

Dear Crystal Tafoya:

Hall Environmental Analysis Laboratory received 1 sample(s) on 8/14/2013 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,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1308627

Date Reported: 8/20/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Conoco Phillips

Client Sample ID: Landfarm

Project: McCord #12E

Collection Date: 8/13/2013 8:50:00 AM

Lab ID: 1308627-001

Matrix: SOIL

Received Date: 8/14/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/16/2013 10:07:53 AM	8877
Surr: DNOP	68.3	63-147		%REC	1	8/16/2013 10:07:53 AM	8877
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/16/2013 12:36:07 PM	8879
Surr: BFB	85.8	80-120		%REC	1	8/16/2013 12:36:07 PM	8879
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	8/16/2013 12:36:07 PM	8879
Toluene	ND	0.048		mg/Kg	1	8/16/2013 12:36:07 PM	8879
Ethylbenzene	ND	0.048		mg/Kg	1	8/16/2013 12:36:07 PM	8879
Xylenes, Total	ND	0.096		mg/Kg	1	8/16/2013 12:36:07 PM	8879
Surr: 4-Bromofluorobenzene	99.3	80-120		%REC	1	8/16/2013 12:36:07 PM	8879
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	4.4	1.5		mg/Kg	1	8/16/2013 12:56:11 PM	8902
EPA METHOD 418.1: TPH							Analyst: jmb
Petroleum Hydrocarbons, TR	960	20		mg/Kg	1	8/19/2013	8905

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
	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
	O RSD is greater than RSDlimit	P Sample pH greater than 2 for VOA and TOC only.
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S Spike Recovery outside accepted recovery limits	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1308627

20-Aug-13

Client: Conoco Phillips

Project: McCord #12E

Sample ID	MB-8902	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	8902	RunNo:	12701					
Prep Date:	8/16/2013	Analysis Date:	8/16/2013	SeqNo:	361704	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-8902	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	8902	RunNo:	12701					
Prep Date:	8/16/2013	Analysis Date:	8/16/2013	SeqNo:	361705	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.9	90	110			

Sample ID	1308627-001AMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	Landfarm	Batch ID:	8902	RunNo:	12701					
Prep Date:	8/16/2013	Analysis Date:	8/16/2013	SeqNo:	361708	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	18	1.5	15.00	4.369	93.7	58.8	109			

Sample ID	1308627-001AMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	Landfarm	Batch ID:	8902	RunNo:	12701					
Prep Date:	8/16/2013	Analysis Date:	8/16/2013	SeqNo:	361709	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	17	1.5	15.00	4.369	86.7	58.8	109	5.83	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1308627

20-Aug-13

Client: Conoco Phillips

Project: McCord #12E

Sample ID	MB-8905	SampType:	MBLK	TestCode:	EPA Method 418.1: TPH					
Client ID:	PBS	Batch ID:	8905	RunNo:	12714					
Prep Date:	8/16/2013	Analysis Date:	8/19/2013	SeqNo:	362033	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	ND	20								

Sample ID	LCS-8905	SampType:	LCS	TestCode:	EPA Method 418.1: TPH					
Client ID:	LCSS	Batch ID:	8905	RunNo:	12714					
Prep Date:	8/16/2013	Analysis Date:	8/19/2013	SeqNo:	362034	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	100	20	100.0	0	99.8	80	120			

Sample ID	LCSD-8905	SampType:	LCSD	TestCode:	EPA Method 418.1: TPH					
Client ID:	LCSS02	Batch ID:	8905	RunNo:	12714					
Prep Date:	8/16/2013	Analysis Date:	8/19/2013	SeqNo:	362035	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	100	20	100.0	0	101	80	120	1.35	20	

Qualifiers:

- | | |
|---|--|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| 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 |
| O RSD is greater than RSDlimit | P Sample pH greater than 2 for VOA and TOC only. |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1308627

20-Aug-13

Client: Conoco Phillips

Project: McCord #12E

Sample ID	LCS-8877		SampType: LCS		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 8877		RunNo: 12645					
Prep Date:	8/15/2013		Analysis Date: 8/15/2013		SeqNo: 360387		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.5	77.1	128			
Surr: DNOP	3.4		5.000		68.3	63	147			

Sample ID	MB-8877		SampType: MBLK		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 8877		RunNo: 12645					
Prep Date:	8/15/2013		Analysis Date: 8/15/2013		SeqNo: 360388		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	7.7		10.00		77.4	63	147			

Sample ID	1308627-001AMS		SampType: MS		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	Landfarm		Batch ID: 8877		RunNo: 12670					
Prep Date:	8/15/2013		Analysis Date: 8/16/2013		SeqNo: 361106		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	22	10	50.10	0	43.0	61.3	138			S
Surr: DNOP	2.7		5.010		53.9	63	147			S

Sample ID	1308627-001AMSD		SampType: MSD		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	Landfarm		Batch ID: 8877		RunNo: 12670					
Prep Date:	8/15/2013		Analysis Date: 8/16/2013		SeqNo: 361107		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	31	10	50.15	0	61.5	61.3	138	35.4	20	R
Surr: DNOP	2.9		5.015		57.6	63	147	0	0	S

Qualifiers:

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- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1308627

20-Aug-13

Client: Conoco Phillips

Project: McCord #12E

Sample ID	MB-8879	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	8879	RunNo:	12677					
Prep Date:	8/15/2013	Analysis Date:	8/16/2013	SeqNo:	361414	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	850		1000		84.8	80	120			

Sample ID	LCS-8879	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	8879	RunNo:	12677					
Prep Date:	8/15/2013	Analysis Date:	8/16/2013	SeqNo:	361415	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	102	74.5	126			
Surr: BFB	940		1000		93.6	80	120			

Sample ID	1308627-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	Landfarm	Batch ID:	8879	RunNo:	12677					
Prep Date:	8/15/2013	Analysis Date:	8/16/2013	SeqNo:	361418	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	4.9	24.34	0	120	76	156			
Surr: BFB	930		973.7		95.8	80	120			

Sample ID	1308627-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	Landfarm	Batch ID:	8879	RunNo:	12677					
Prep Date:	8/15/2013	Analysis Date:	8/16/2013	SeqNo:	361419	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	4.9	24.32	0	110	76	156	8.43	17.7	
Surr: BFB	940		972.8		96.3	80	120	0	0	

Qualifiers:

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- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1308627

20-Aug-13

Client: Conoco Phillips

Project: McCord #12E

Sample ID	MB-8879		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	8879		RunNo:	12677			
Prep Date:	8/15/2013		Analysis Date:	8/16/2013		SeqNo:	361431		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.98		1.000		97.7	80	120			

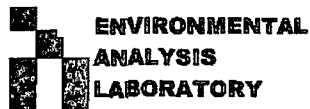
Sample ID	LCS-8879		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	8879		RunNo:	12677			
Prep Date:	8/15/2013		Analysis Date:	8/16/2013		SeqNo:	361432		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	102	80	120			
Toluene	0.99	0.050	1.000	0	98.9	80	120			
Ethylbenzene	1.0	0.050	1.000	0	103	80	120			
Xylenes, Total	3.1	0.10	3.000	0	103	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120			

Sample ID	1308627-001AMS		SampType:	MS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	Landfarm		Batch ID:	8879		RunNo:	12677			
Prep Date:	8/15/2013		Analysis Date:	8/16/2013		SeqNo:	361435		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.049	0.9737	0	111	67.3	145			
Toluene	1.1	0.049	0.9737	0	109	66.8	144			
Ethylbenzene	1.1	0.049	0.9737	0	112	61.9	153			
Xylenes, Total	3.3	0.097	2.921	0	113	65.8	149			
Surr: 4-Bromofluorobenzene	1.0		0.9737		106	80	120			

Sample ID	1308627-001AMSD		SampType:	MSD		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	Landfarm		Batch ID:	8879		RunNo:	12677			
Prep Date:	8/15/2013		Analysis Date:	8/16/2013		SeqNo:	361436		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.049	0.9728	0	108	67.3	145	2.96	20	
Toluene	1.0	0.049	0.9728	0	107	66.8	144	2.45	20	
Ethylbenzene	1.1	0.049	0.9728	0	111	61.9	153	1.37	20	
Xylenes, Total	3.2	0.097	2.918	0	111	65.8	149	1.65	20	
Surr: 4-Bromofluorobenzene	1.0		0.9728		107	80	120	0	0	

Qualifiers:

- | | |
|---|--|
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| J Analyte detected below quantitation limits | ND Not Detected at the Reporting Limit |
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| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S Spike Recovery outside accepted recovery limits | |



4901 Hawkins NE
Albuquerque, NM 87105
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: 1308627

RcptNo: 1

Received by/date:

Logged By:

Lindsay Mangin

8/14/2013 10:00:00 AM

Completed By:

Lindsay Mangin

8/15/2013 7:42:12 AM

Reviewed By:

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 ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
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 ☐

of preserved
bottles checked
for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
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			

Turn-Around Time:

☒ ~~Standard~~ ☐ **Rush**

Project Name:

Project #:

Project Manager:

CRYSTAL TAFOYA

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other☐ EDD (Type)

Sampler: COPY, E4006E

Office: ☒ Yes ☐ No

Sample Temperature / (°C)

X	BTEX + MTBE + TMB's (8021)
	BTEX + MTBE + TPH (Gas only)
X	TPH Method 8015B (Gas/Diesel)
X	TPH (Method 418.1)
	EDB (Method 504.1)
	8310 (PNA or PAH)
	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)

Received by: Christopher Walcott Date: 8/13/13 Time: 1657

Received by:  Date: 08/14/13 Time: 1000

Remarks: PO - BENAZE
- 9683818

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.