

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company Burlington Resources Oil & Gas Company	Contact Crystal Tafoya
Address 3401 East 30th St, Farmington, NM	Telephone No. (505) 326-9837
Facility Name: Richardson 9E	Facility Type: Gas Well

Surface Owner BLM	Mineral Owner BLM (SF-077651)	API No. 30-045-24147
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	15	31N	12W	1755	South	815	West	San Juan

Latitude 36.89616 Longitude 108.08908

NATURE OF RELEASE

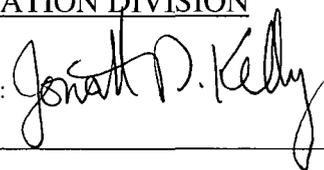
Type of Release Produced Fluids	Volume of Release Unknown	Volume Recovered None
Source of Release Below Grade Tank	Date and Hour of Occurrence Unknown	Date and Hour of Discovery November 13, 2012
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? RCVD FEB 22 '13	
By Whom?	Date and Hour	OIL CONSERV DIV
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. DIST. 3	

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

Describe Cause of Problem and Remedial Action Taken.*
Below Grade Tank Re-set Activities

Describe Area Affected and Cleanup Action Taken.*
The below grade tank for the subject well was removed for a re-set and historic contamination was discovered. An area excavated was 12' x 12' x 8' and 24 cubic yards of soil was transported to a third party landfarm. Excavation and confirmation sampling occurred. Sandstone was encountered on the base and permission to treat with Potation Permangante was received from BLM (Mark Kelly) & OCD (Brandon Powell) on 11/16/2012. Analytical results for TPH, BTEX and Chlorides were below the regulatory standards set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Release; therefore no further action is required. The final report is attached for review.

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	
	Approved by Environmental Specialist: 	
Printed Name: Crystal Tafoya	Approval Date: 2/27/2013	Expiration Date:
Title: Field Environmental Specialist	Conditions of Approval:	
E-mail Address: crystal.tafoya@conocophillips.com	Attached <input type="checkbox"/>	
Date: 2/19/2013 Phone: (505) 326-9837		

* Attach Additional Sheets If Necessary

NSK1305841815

23



Contaminated Cleanup

Located at:

Richardson 9E

11/16/2012

Prepared for:

ConocoPhillips

Crystal Tafoya

Prepared by:

Nelson Revegetation LLC

Brad Griffith



November 16, 2012

Crystal Tafoya

ConocoPhillips

Dear Crystal,

Attached you will find a detailed description of work performed on the:

Richardson 9E,

API # 3004524147

If you need any further information or have any questions, please do not hesitate to call.
(505)419-3333

Respectfully submitted,

Brad Griffith



Site Assessment:

On November 23, 2012 Nelson Revegetation arrived at the Richardson 9E. On location a Below Ground Tank (BGT) had been removed and visible staining was noticed on the floor of the excavation. The size of the pit at this time was 6'x6'x6' deep.

Actions Performed:

Nov. 13th.

Using a hydrovac truck visually contaminated soil was removed and hauled to the IEI Landfarm. A total of 12yds was hauled off. Sandstone was reached on the floor of the excavation so digging deeper is no longer an option. A historical release is found under the liner at 6' deep containing dark grey/black stained sandstone and soil. Size of the excavation is 8'x8'x8' deep.

Nov. 14th.

Using a hydrovac truck the visually contaminated soil from the walls were removed and hauled to the IEI Landfarm. A total of 24yds was hauled off. Size of the excavation is 12'x12'x8' deep.

Nov. 15th.

Two composite samples from the excavation are taken to Hall Environmental, one wall composite above the liner and one composite sample from the historical release below the liner.

Nov. 16th.

Potassium Permanganate is sprayed on the sandstone throughout the excavation. A total of 46 gallons with a ratio mix of 33% of 0.1N is used.



Conclusion:

After performing the cleanup and spraying of Potassium Permanganate no further action is recommended. The sample results taken above the liner shows ND. The sample results from below the liner are 770ppm DRO and 470ppm GRO and have been saturated with the Potassium Permanganate and the visually contaminated soft soil has been removed.



Disclaimer:

All New Mexico Oil Conservation Division standards have been met and are in compliance by any work and services provided by Nelson Revegetation. The observations and determinations made by Nelson Revegetation are conclusions directly related to data collected on-site at that current time. Obviously circumstances can change and therefore no warranties are made to the accuracy of the data after the time of the assessment. There are many choices to perform this service and we thank you for using Nelson Revegetation.



Nelson Revegetation On-Site Form

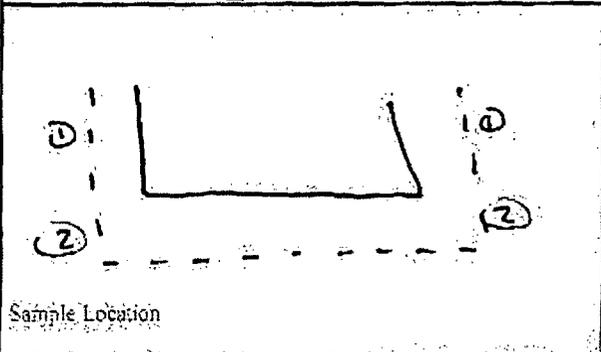
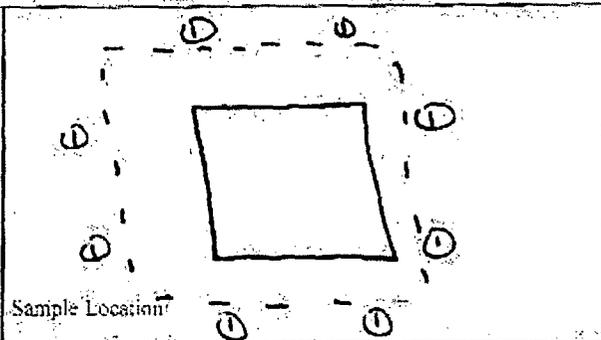
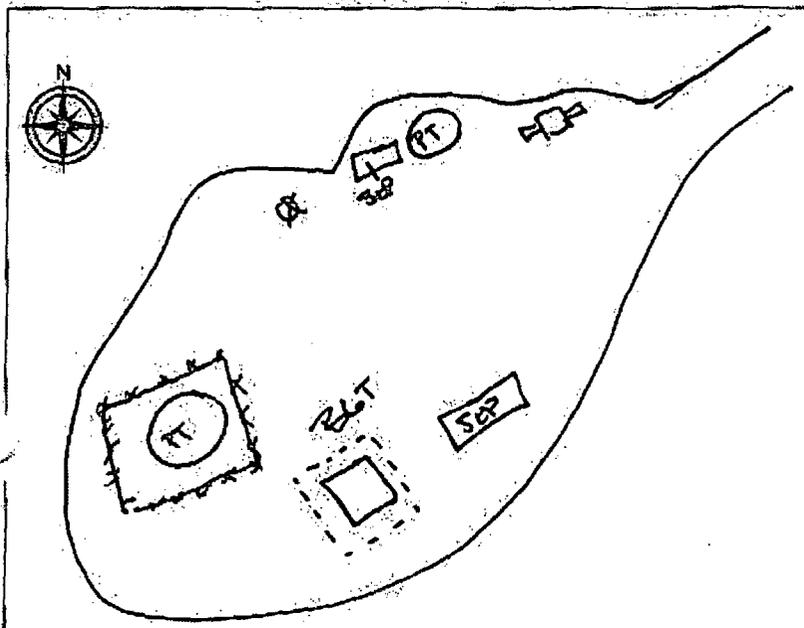
Well Name RICHARDSON #9E API# 3004524147

Section 15 Township 31N Range 12W County JAN QUN

Spill Amount _____ bbls Spilled (Oil / Produced Water / Other _____)

Land Use (Grazing / Residential / Tribe _____) Excavation 12 x 12 x 8 Deep

Site Ranking _____ NMOCD TPH Closure Standard _____



Sample Location

Comments TANK HAS BEEN REMOVED. HIT SANDSTONE 2-3' DOWN. HISTORICAL CONTAMINATION FOUND UNDER LINER.

Time	Sample #	Description	Method 118.1				VOC	Lab Analysis
			wt	Reading	Dilution	TPH		
0815	1	WATER ABOVE LINER		LIGHT BROWN SAND		40	8015, 8021, C12.	
0819	2	WATER BELOW LINER		DRK GREY/BLACK LHM		1580	8015, 8021, C12.	

Name FRAN GRIFFIN

Sign BL Griffin

Date 4/15 Time On-Site 0745 Time Off-Site 0840

Page 1 of 1



Report Summary

Client: ConocoPhillips

Chain of Custody Number: 14641

Samples Received: 11-08-12

Job Number: 96052-1706

Sample Number(s): 63633

Project Name/Location: Richardson 9E

Entire Report Reviewed By:

Diana Zappin

Date: *11-16-12*

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.



envirotech
Analytical Laboratory

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client:	ConocoPhillips	Project #:	96052-1706
Sample ID:	Richardson 9E	Date Reported:	11-09-12
Laboratory Number:	63633	Date Sampled:	11-08-12
Chain of Custody No:	14641	Date Received:	11-08-12
Sample Matrix:	Soil	Date Extracted:	11-09-12
Preservative:	Cool	Date Analyzed:	11-09-12
Condition:	Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	87.4	0.2
Diesel Range (C10 - C28)	208	0.1
Total Petroleum Hydrocarbons	296	

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Richardson 9E**





envirotech

Analytical Laboratory

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	1109TCAL QA/QC	Date Reported:	11-09-12
Laboratory Number:	63636	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-09-12
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	11-09-12	9.9960E+02	1.0000E+03	0.04%	0 - 15%
Diesel Range C10 - C28	11-09-12	9.9960E+02	1.0000E+03	0.04%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	0.7	0.7	0.0%	0 - 30%
Diesel Range C10 - C28	1,720	1,720	0.0%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	0.7	250	292	116%	75 - 125%
Diesel Range C10 - C28	1,720	250	2,460	125%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Wastewater, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 63632-63636



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	ConocoPhillips	Project #:	96052-1706
Sample ID:	Richardson 9E	Date Reported:	11-09-12
Laboratory Number:	63633	Date Sampled:	11-08-12
Chain of Custody:	14641	Date Received:	11-08-12
Sample Matrix:	Soil	Date Analyzed:	11-09-12
Preservative:	Cool	Date Extracted:	11-09-12
Condition:	Intact	Analysis Requested:	BTEX
		Dilution:	500

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	100.0
Toluene	ND	100.0
Ethylbenzene	438	100.0
p,m-Xylene	3,730	100.0
o-Xylene	227	100.0
Total BTEX	4,400	

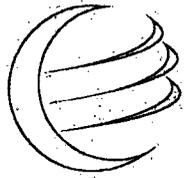
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	83.6 %
	1,4-difluorobenzene	87.3 %
	Bromochlorobenzene	95.5 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Richardson 9E



envirotech

Analytical Laboratory

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	1109BCAL QA/QC	Date Reported:	11-09-12
Laboratory Number:	63636	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-09-12
Condition:	N/A	Analysis:	BTEX
		Dilution:	50

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
		Accept: Range 0-15%			
Benzene	8.1317E-05	8.1798E-05	0.006	ND	0.2
Toluene	7.5444E-05	7.4970E-05	0.006	ND	0.2
Ethylbenzene	8.1551E-05	8.1481E-05	0.001	ND	0.2
p,m-Xylene	6.7338E-05	6.7338E-05	0.000	ND	0.2
o-Xylene	8.5510E-05	8.4472E-05	0.012	ND	0.2

Duplicate Conc: (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	ND	ND	0.00	0 - 30%	10
Toluene	14.5	15.1	0.04	0 - 30%	10
Ethylbenzene	ND	ND	0.00	0 - 30%	10
p,m-Xylene	ND	ND	0.00	0 - 30%	10
o-Xylene	ND	ND	0.00	0 - 30%	10

Spike Conc: (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	2500	2240	89.6	39 - 150
Toluene	14.5	2500	2210	87.9	46 - 148
Ethylbenzene	ND	2500	2240	89.6	32 - 160
p,m-Xylene	ND	5000	4280	85.6	46 - 148
o-Xylene	ND	2500	2170	86.8	46 - 148

ND - Parameter not detected at the stated detection limit.

Dilution: Spike and spiked sample concentration represent a dilution proportional to sample dilution.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 63632-63633 and 63636



Client:	ConocoPhillips	Project #:	96052-1706
Sample ID:	Richardson 9E	Date Reported:	11-16-12
Lab ID#:	63633	Date Sampled:	11-08-12
Sample Matrix:	Soil	Date Received:	11-08-12
Preservative:	Cool	Date Analyzed:	11-16-12
Condition:	Intact	Chain of Custody:	14641

Parameter	Concentration (mg/Kg)
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Total Chloride

373

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Richardson 9E**

CHAIN OF CUSTODY RECORD

14641

Client: <i>CONOCO PHILLIPS</i>			Project Name / Location: <i>RICHARDSON 9E</i>			ANALYSIS / PARAMETERS																		
Email results to: <i>CRYSTAL.TAFOYA@CONOCOPHILLIPS.COM</i>			Sampler Name: <i>SHAWN FINCHER</i>			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact					
Client Phone No.: <i>505-326-9837</i>			Client No.: <i>96052-1706</i>																					
Sample No. / Identification	Sample Date	Sample Time	Lab No.	No. / Volume of Containers	Preservative																			
					HgCl ₂	HCl																		
<i>RICHARDSON 9E</i>	<i>11-8-12</i>	<i>10:30AM</i>	<i>63633</i> <i>P211016-D19</i>	<i>1-4oz. Jar</i>			✓	✓												✓			Y	Y
Relinquished by: (Signature) <i>Shawn Fincher</i>				Date <i>11/8/12</i>	Time <i>11:25 AM</i>	Received by: (Signature) <i>[Signature]</i>				Date <i>11/8/12</i>	Time <i>11:25 AM</i>													
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.																								
<i>AM02360988</i> <i>GARRECD</i>																								
5795 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301 • laboratory@envirotech-inc.com																								

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Conoco Phillips
Project: Richardson #9E
Lab ID: 1211697-001A

Client Sample ID: Walls Above Liner
Collection Date: 11/15/2012 8:15:00 AM
Matrix: MeOH (Soil)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/16/2012 11:24:17 AM
Surr: DNOP	86.8	77.6-140		%REC	1	11/16/2012 11:24:17 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/16/2012 12:37:12 PM
Surr: BFB	101	84-116		%REC	1	11/16/2012 12:37:12 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	11/16/2012 12:37:12 PM
Toluene	ND	0.050		mg/Kg	1	11/16/2012 12:37:12 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/16/2012 12:37:12 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/16/2012 12:37:12 PM
Surr: 4-Bromofluorobenzene	107	80-120		%REC	1	11/16/2012 12:37:12 PM

Chloride less than 30mg/kg

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
E Value above quantification range	F Holding times for preparation or analysis exceeded	ND Not detected at the Reporting Limit
J Analyte detected below quantitation limits	R RPD outside accepted recovery limits	S Spike Recovery outside accepted recovery limits
P Sample pH greater than 2	RL Reporting Detection Limit	

PRELIMINARY

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Conoco Phillips
Project: Richardson #9E
Lab ID: 1211697-002A

Client Sample ID: Walls Below Liner
Collection Date: 11/15/2012 8:19:00 AM
Matrix: MeOH (Soil)

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	770	9.9		mg/Kg	1	11/16/2012 11:46:07 AM
Surr: DNOP	95.6	77.6-140		%REC	1	11/16/2012 11:46:07 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	470	50		mg/Kg	10	11/16/2012 1:05:57 PM
Surr: BFB	658	84-116	S	%REC	10	11/16/2012 1:05:57 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.25		mg/Kg	10	11/16/2012 1:05:57 PM
Toluene	ND	0.50		mg/Kg	10	11/16/2012 1:05:57 PM
Ethylbenzene	1.2	0.50		mg/Kg	10	11/16/2012 1:05:57 PM
Xylenes, Total	5.9	1.0		mg/Kg	10	11/16/2012 1:05:57 PM
Surr: 4-Bromofluorobenzene	133	80-120	S	%REC	10	11/16/2012 1:05:57 PM

chloride

180 mg/Kg

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
P	Sample pH greater than 2	R RPD outside accepted recovery limits
RL	Reporting Detection Limit	S Spike Recovery outside accepted recovery limits

PRELIMINARY



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

November 21, 2012

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

RE: Richardson #9E

OrderNo.: 1211697

Dear Crystal Tafoya:

Hall Environmental Analysis Laboratory received 2 sample(s) on 11/16/2012 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. 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. 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.

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

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Conoco Phillips**Client Sample ID:** Walls Above Liner**Project:** Richardson #9E**Collection Date:** 11/15/2012 8:15:00 AM**Lab ID:** 1211697-001**Matrix:** MEOH (SOIL)**Received Date:** 11/16/2012 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	11/16/2012 11:24:17 AM
Surr: DNOP	86.8	77.6-140		%REC	1	11/16/2012 11:24:17 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	11/16/2012 12:37:12 PM
Surr: BFB	101	84-116		%REC	1	11/16/2012 12:37:12 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.050		mg/Kg	1	11/16/2012 12:37:12 PM
Toluene	ND	0.050		mg/Kg	1	11/16/2012 12:37:12 PM
Ethylbenzene	ND	0.050		mg/Kg	1	11/16/2012 12:37:12 PM
Xylenes, Total	ND	0.10		mg/Kg	1	11/16/2012 12:37:12 PM
Surr: 4-Bromofluorobenzene	107	80-120		%REC	1	11/16/2012 12:37:12 PM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Chloride	ND	30		mg/Kg	20	11/16/2012 12:40:13 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Conoco Phillips**Client Sample ID:** Walls Below Liner**Project:** Richardson #9E**Collection Date:** 11/15/2012 8:19:00 AM**Lab ID:** 1211697-002**Matrix:** MEOH (SOIL)**Received Date:** 11/16/2012 9:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	770	9.9		mg/Kg	1	11/16/2012 11:46:07 AM
Surr: DNOP	95.6	77.6-140		%REC	1	11/16/2012 11:46:07 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	450	50		mg/Kg	10	11/16/2012 1:05:57 PM
Surr: BFB	658	84-116	S	%REC	10	11/16/2012 1:05:57 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.50		mg/Kg	10	11/16/2012 1:05:57 PM
Toluene	ND	0.50		mg/Kg	10	11/16/2012 1:05:57 PM
Ethylbenzene	1.2	0.50		mg/Kg	10	11/16/2012 1:05:57 PM
Xylenes, Total	5.7	1.0		mg/Kg	10	11/16/2012 1:05:57 PM
Surr: 4-Bromofluorobenzene	133	80-120	S	%REC	10	11/16/2012 1:05:57 PM
EPA METHOD 300.0: ANIONS						Analyst: JRR
Chloride	180	30		mg/Kg	20	11/16/2012 12:52:38 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1211697

21-Nov-12

Client: Conoco Phillips

Project: Richardson #9E

Sample ID	MB-4864	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	4864	RunNo:	6970					
Prep Date:	11/16/2012	Analysis Date:	11/16/2012	SeqNo:	201879	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-4864	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	4864	RunNo:	6970					
Prep Date:	11/16/2012	Analysis Date:	11/16/2012	SeqNo:	201880	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.4	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1211697
21-Nov-12

Client: Conoco Phillips
Project: Richardson #9E

Sample ID: MB-4850	SampType: MBLK	TestCode: EPA Method 8015B: Diesel Range Organics								
Client ID: PBS	Batch ID: 4850	RunNo: 6927								
Prep Date: 11/15/2012	Analysis Date: 11/16/2012	SeqNo: 200398	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	9.8		10.00		98.0	77.6	140			

Sample ID: LCS-4850	SampType: LCS	TestCode: EPA Method 8015B: Diesel Range Organics								
Client ID: LCSS	Batch ID: 4850	RunNo: 6927								
Prep Date: 11/15/2012	Analysis Date: 11/16/2012	SeqNo: 200399	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	90.4	47.4	122			
Surr: DNOP	4.1		5.000		82.4	77.6	140			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Sample Log-In Check List

Client Name: Conoco Phillips Farm HWY 64 Work Order Number: 1211697
 Received by/date: mg 11/16/12
 Logged By: Michelle Garcia 11/16/2012 9:50:00 AM *Michelle Garcia*
 Completed By: Michelle Garcia 11/16/2012 10:36:33 AM *Michelle Garcia*
 Reviewed By: ZO 11/16/2012

Chain of Custody

- 1. Were seals intact? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Courier

Log In

- 4. Coolers are present? (see 19. for cooler specific information) Yes No NA
- 5. Was an attempt made to cool the samples? Yes No NA
- 6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 7. Sample(s) in proper container(s)? Yes No
- 8. Sufficient sample volume for indicated test(s)? Yes No
- 9. Are samples (except VOA and ONG) properly preserved? Yes No
- 10. Was preservative added to bottles? Yes No NA
- 11. VOA vials have zero headspace? Yes No No VOA Vials
- 12. Were any sample containers received broken? Yes No
- 13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes No
- 14. Are matrices correctly identified on Chain of Custody? Yes No
- 15. Is it clear what analyses were requested? Yes No
- 16. 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)

- 17. 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: _____

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record

Client: CONROY PHILLIPS

Mailing Address: WLY 64

Phone #: 505-215-4361

email or Fax#: CRYSTAL.TAFOYA@

QA/QC Package:
 Standard Level 4 (Full Validation)

Accreditation
 NELAP Other _____

EDD (Type) _____

Turn-Around Time:

Standard Rush SAME DAY

Project Name:
RICHARDSON #9E

Project #:

Project Manager:
CRYSTAL TAFOYA

Sampler: BRAD GIFFORD
 On Ice Yes No

Sample Temperature: 1.0



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	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)	CHLORIDES	
11/15	0815	SAM	WALLS ABOVE LINER	1 402	COOL	-001	X	X											X
11/15	0815	SOIL	WALLS BELOW LINER	1 402	COOL	-002	X	X											X
RUSH!!!																			

Date: 11/15 Time: 1617 Relinquished by: Bl Gifford

Received by: Christine Wacker Date: 11/15 Time: 1617

Remarks:

Date: 11/12 Time: 1805 Relinquished by: Christine Wacker

Received by: Michele Francis Date: 11/12 Time: 0950

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 noted on the analytical report.