

APPROVED

Work Plan 1RP 4005

By Kristen Lynch at 8:12 am, Nov 30, 2016

On December 7th 2015 ConocoPhillips had a leak on the Grayburg Battery Transfer Line. The calculated amount of the spill was 20 bbl. of produced water with 15 bbl. recovered. The affected area was approx. 5,670 sq. feet. The immediate action by COPC was to immediately go in and clean up all of the visibly saturated soils and haul to an approved disposal. Approximately 6" of topsoil was removed and the road scraped down also. There was only a thin layer of contamination on the main caliche road. On 11/16/16 COPC went to the site and completed 2 soil delineations to a depth of 5' in the pasture area collecting samples at 1' intervals. DGW in this area is approx. 60'. As shown on the attached samples from Cardinal lab all samples came back clean from the lab. Our plan is to still remove 6" of the affected area of the pasture and take material to an approved landfill and then backfill with clean material. We will then reseed with a BLM approved seed. I have attached the initial C-141, the map showing the locations of the samples and the lab results of the samples taken. If you need anything else, please let me know and I will get it to you.



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

November 23, 2016

DANNY HOOPER

Conoco Phillips - Hobbs

P. O. BOX 325

Hobbs, NM 88240

RE: GREYBURG T/F LINE

Enclosed are the results of analyses for samples received by the laboratory on 11/16/16 8:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Hope S. Moreno".

Hope S. Moreno For Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 Conoco Phillips - Hobbs
 DANNY HOOPER
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	11/16/2016	Sampling Date:	11/16/2016
Reported:	11/23/2016	Sampling Type:	Soil
Project Name:	GREYBURG T/F LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	PASTURE		

Sample ID: #1 - 1' (H602565-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2016	ND	2.16	108	2.00	0.116	
Toluene*	<0.050	0.050	11/17/2016	ND	2.24	112	2.00	1.41	
Ethylbenzene*	<0.050	0.050	11/17/2016	ND	2.14	107	2.00	0.139	
Total Xylenes*	<0.150	0.150	11/17/2016	ND	6.41	107	6.00	0.918	
Total BTEX	<0.300	0.300	11/17/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/16/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/17/2016	ND	188	93.8	200	0.125	
DRO >C10-C28	<10.0	10.0	11/17/2016	ND	200	100	200	1.26	

Surrogate: 1-Chlorooctane 84.3 % 35-147
Surrogate: 1-Chlorooctadecane 82.5 % 28-171

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*=Accredited Analyte

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Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager

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 DANNY HOOPER
 P. O. BOX 325
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Received:	11/16/2016	Sampling Date:	11/16/2016
Reported:	11/23/2016	Sampling Type:	Soil
Project Name:	GREYBURG T/F LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	PASTURE		

Sample ID: #1 - 2' (H602565-02)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2016	ND	2.16	108	2.00	0.116		
Toluene*	<0.050	0.050	11/17/2016	ND	2.24	112	2.00	1.41		
Ethylbenzene*	<0.050	0.050	11/17/2016	ND	2.14	107	2.00	0.139		
Total Xylenes*	<0.150	0.150	11/17/2016	ND	6.41	107	6.00	0.918		
Total BTEX	<0.300	0.300	11/17/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/16/2016	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/17/2016	ND	188	93.8	200	0.125		
DRO >C10-C28	<10.0	10.0	11/17/2016	ND	200	100	200	1.26		

Surrogate: 1-Chlorooctane 91.1 % 35-147
Surrogate: 1-Chlorooctadecane 103 % 28-171

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Received:	11/16/2016	Sampling Date:	11/16/2016
Reported:	11/23/2016	Sampling Type:	Soil
Project Name:	GREYBURG T/F LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	PASTURE		

Sample ID: #1 - 3' (H602565-03)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/18/2016	ND	2.24	112	2.00	1.51		
Toluene*	<0.050	0.050	11/18/2016	ND	2.29	114	2.00	1.69		
Ethylbenzene*	<0.050	0.050	11/18/2016	ND	2.21	110	2.00	1.17		
Total Xylenes*	<0.150	0.150	11/18/2016	ND	6.71	112	6.00	1.12		
Total BTEX	<0.300	0.300	11/18/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/16/2016	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/17/2016	ND	188	93.8	200	0.125		
DRO >C10-C28	<10.0	10.0	11/17/2016	ND	200	100	200	1.26		

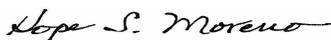
Surrogate: 1-Chlorooctane 91.6 % 35-147

Surrogate: 1-Chlorooctadecane 104 % 28-171

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Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Conoco Phillips - Hobbs
 DANNY HOOPER
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	11/16/2016	Sampling Date:	11/16/2016
Reported:	11/23/2016	Sampling Type:	Soil
Project Name:	GREYBURG T/F LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	PASTURE		

Sample ID: #1 - 5' (H602565-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2016	ND	2.24	112	2.00	2.51	
Toluene*	<0.050	0.050	11/18/2016	ND	2.27	114	2.00	2.24	
Ethylbenzene*	<0.050	0.050	11/18/2016	ND	2.20	110	2.00	2.48	
Total Xylenes*	<0.150	0.150	11/18/2016	ND	6.69	111	6.00	2.48	
Total BTEX	<0.300	0.300	11/18/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/16/2016	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/17/2016	ND	188	93.8	200	0.125	
DRO >C10-C28	<10.0	10.0	11/17/2016	ND	200	100	200	1.26	

Surrogate: 1-Chlorooctane 82.0 % 35-147
Surrogate: 1-Chlorooctadecane 86.2 % 28-171

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 Fax To: (575) 297-1477

Received:	11/16/2016	Sampling Date:	11/16/2016
Reported:	11/23/2016	Sampling Type:	Soil
Project Name:	GREYBURG T/F LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	PASTURE		

Sample ID: #2 - 1' (H602565-05)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/18/2016	ND	2.24	112	2.00	2.51		
Toluene*	<0.050	0.050	11/18/2016	ND	2.27	114	2.00	2.24		
Ethylbenzene*	<0.050	0.050	11/18/2016	ND	2.20	110	2.00	2.48		
Total Xylenes*	<0.150	0.150	11/18/2016	ND	6.69	111	6.00	2.48		
Total BTEX	<0.300	0.300	11/18/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/16/2016	ND	432	108	400	0.00		

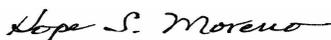
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/17/2016	ND	188	93.8	200	0.125		
DRO >C10-C28	<10.0	10.0	11/17/2016	ND	200	100	200	1.26		

Surrogate: 1-Chlorooctane 83.9 % 35-147
Surrogate: 1-Chlorooctadecane 93.9 % 28-171

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Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Conoco Phillips - Hobbs
 DANNY HOOPER
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	11/16/2016	Sampling Date:	11/16/2016
Reported:	11/23/2016	Sampling Type:	Soil
Project Name:	GREYBURG T/F LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	PASTURE		

Sample ID: #2 - 2' (H602565-06)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/18/2016	ND	2.24	112	2.00	2.51		
Toluene*	<0.050	0.050	11/18/2016	ND	2.27	114	2.00	2.24		
Ethylbenzene*	<0.050	0.050	11/18/2016	ND	2.20	110	2.00	2.48		
Total Xylenes*	<0.150	0.150	11/18/2016	ND	6.69	111	6.00	2.48		
Total BTEX	<0.300	0.300	11/18/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/16/2016	ND	432	108	400	0.00		

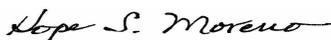
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/17/2016	ND	188	93.8	200	0.125		
DRO >C10-C28	<10.0	10.0	11/17/2016	ND	200	100	200	1.26		

Surrogate: 1-Chlorooctane 98.7 % 35-147
Surrogate: 1-Chlorooctadecane 103 % 28-171

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Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Conoco Phillips - Hobbs
 DANNY HOOPER
 P. O. BOX 325
 Hobbs NM, 88240
 Fax To: (575) 297-1477

Received:	11/16/2016	Sampling Date:	11/16/2016
Reported:	11/23/2016	Sampling Type:	Soil
Project Name:	GREYBURG T/F LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	PASTURE		

Sample ID: #2 - 3' (H602565-07)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/18/2016	ND	2.24	112	2.00	2.51		
Toluene*	<0.050	0.050	11/18/2016	ND	2.27	114	2.00	2.24		
Ethylbenzene*	<0.050	0.050	11/18/2016	ND	2.20	110	2.00	2.48		
Total Xylenes*	<0.150	0.150	11/18/2016	ND	6.69	111	6.00	2.48		
Total BTEX	<0.300	0.300	11/18/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/16/2016	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/17/2016	ND	188	93.8	200	0.125		
DRO >C10-C28	<10.0	10.0	11/17/2016	ND	200	100	200	1.26		

Surrogate: 1-Chlorooctane 90.8 % 35-147
Surrogate: 1-Chlorooctadecane 87.4 % 28-171

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Received:	11/16/2016	Sampling Date:	11/16/2016
Reported:	11/23/2016	Sampling Type:	Soil
Project Name:	GREYBURG T/F LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	PASTURE		

Sample ID: #2 - 5' (H602565-08)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/21/2016	ND	1.97	98.4	2.00	0.742		
Toluene*	<0.050	0.050	11/21/2016	ND	2.01	101	2.00	0.898		
Ethylbenzene*	<0.050	0.050	11/21/2016	ND	1.94	97.0	2.00	1.31		
Total Xylenes*	<0.150	0.150	11/21/2016	ND	5.89	98.2	6.00	0.551		
Total BTEX	<0.300	0.300	11/21/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/16/2016	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/17/2016	ND	188	93.8	200	0.125		
DRO >C10-C28	<10.0	10.0	11/17/2016	ND	200	100	200	1.26		

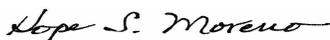
Surrogate: 1-Chlorooctane 91.7 % 35-147

Surrogate: 1-Chlorooctadecane 92.7 % 28-171

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Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside if QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report





CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240
(575) 393-2326 Fax (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name: Conoco
 Project Manager: Justin Wright
 Address: Justin Wright @ ConocoPhillips.com
 City: Hobbs State: NM Zip: 88240
 Phone #: 575-631-9092 Fax #: _____
 Project #: Greybug T/E Line Project Owner: Conoco
 Project Name: Greybug T/E Line
 Project Location: Aspire
 Sampler Name: Woody
 P.O. #: _____
 Company: Conoco
 Attn: Justin
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: 631-9092 Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	Chloride	TPH	B-Tex	Benzine
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:						
<u>H602565</u>																
	<u>#1 - 1'</u>			<input checked="" type="checkbox"/>												
	<u>#1 - 2'</u>			<input checked="" type="checkbox"/>												
	<u>#1 - 3'</u>			<input checked="" type="checkbox"/>												
	<u>#1 - 5'</u>			<input checked="" type="checkbox"/>												
	<u>#2 - 1'</u>			<input checked="" type="checkbox"/>												
	<u>#2 - 2'</u>			<input checked="" type="checkbox"/>												
	<u>#2 - 3'</u>			<input checked="" type="checkbox"/>												
	<u>#2 - 5'</u>			<input checked="" type="checkbox"/>												

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising under this contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Sampler Relinquished: _____ Date: _____ Received By: _____
 Relinquished By: _____ Date: _____
 Delivered By: (Circle One) Temp Received By: Justin
 Sampler - UPS - Bus - Other: #75 5.70 Sample Condition: Intact Cool Yes No Yes No
 CHECKED BY: (Initials) JW

Phone Result: No Add'l Phone #: _____
 Fax Result: No Add'l Fax #: _____
 REMARKS: Justin

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.