



October 23, 2015

Oil Conservation Division
District 2 – Artesia
811 S. First St.
Artesia, NM 88210

Re: Harper State #9
30-015-34689
Sec. 16, T17S-R30E
Eddy County, NM

Mr. Mike Bratcher,

COG Operating LLC would like to submit for your consideration the enclosed work plan for the above captioned well. The plan is in response to the C-141 initial report dated August 16, 2015.

Background

The release was caused by a corroded flow line resulting in the release of 5 barrels of oil and 15 barrels of produced water of which 4 barrels of oil and 14 barrels of produced water were recovered. The release impacted an area in the pasture ranging from 1-40' in width by approximately 50' in length. Upon discovery of the release and recovery of standing fluid, the impacted area was treated with Micro Blaze®.

Groundwater

Based on the Chevron Trend Maps, the release area would be classified at a site ranking of **Zero** due to the depth of groundwater at greater than 300'.

Soil Assessment and Analytical Results

Initial soil samples were taken on August 27, 2015, with the results and approximate locations depicted on the attached Site Diagram as S1 and S2.

Sample results indicate that TPH and BTEX for sample point S1 at a depth of 1' are within RRAL's for a site ranking of zero and non-detect for S2. Chloride results indicate that levels are elevated to a depth of 2' for S1 and 3' for S2. Analytical Results are attached for your consideration.

Work Plan

COG Operating LLC proposes the following remediation plan:

- **S1:** Excavate to a depth of 2.5 feet and backfill with like material.
- **S2:** Excavate to a depth of 3.5 feet and backfill with like material

All impacted material excavated will be hauled to an approved NMOCD facility for disposal.

If there are no objections or further stipulations, COG Operating LLC would like to begin the remediation process based on approval of this work plan. Please feel free to contact me with any questions or concerns at (575) 748-6933.

Sincerely,



Lupe Carrasco
Environmental Coordinator

Enclosed:

- (1) Site Diagram and Summary Table
- (2) Laboratory Analysis
- (3) C-141 Initial (copy)

Harper State #9

Section 16, T17S-R30E

32 828375 - 103 969581
Released: 35 B/O; 20 B/PW
Recovered: 0 B/O; 8 B/PW

S1	BTEX	GRO	DRO	TPH	Cl-
1'	3.35	78.3	476	554.3	7060
2'	ND	ND	ND	ND	2080
3'	ND	ND	ND	ND	384
4'	ND	ND	ND	ND	416
S2	BTEX	GRO	DRO	TPH	Cl-
1'	ND	ND	ND	ND	1020
2'	ND	ND	ND	ND	2720
3'	ND	ND	ND	ND	2320
4'	ND	ND	ND	ND	976

Legend

Release Area

September 08, 2015

LUPE CARRASCO

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: HARPER STATE #9

Enclosed are the results of analyses for samples received by the laboratory on 09/02/15 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 COG OPERATING
 LUPE CARRASCO
 P. O. BOX 1630
 ARTESIA NM, 88210
 Fax To: NONE

 Received: 09/02/2015
 Reported: 09/08/2015
 Project Name: HARPER STATE #9
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 08/27/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S1 - 1' (H502337-01)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.068	0.050	09/04/2015	ND	1.96	98.1	2.00	0.983	
Toluene*	0.909	0.050	09/04/2015	ND	1.79	89.3	2.00	1.10	
Ethylbenzene*	0.855	0.050	09/04/2015	ND	1.84	91.8	2.00	2.38	
Total Xylenes*	1.52	0.150	09/04/2015	ND	5.74	95.7	6.00	0.630	
Total BTEX	3.35	0.300	09/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 109 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7060	16.0	09/04/2015	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	78.3	10.0	09/03/2015	ND	180	90.2	200	1.56	
DRO >C10-C28	476	10.0	09/03/2015	ND	196	97.9	200	2.48	

Surrogate: 1-Chlorooctane 91.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 88.2 % 52.1-176

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

COG OPERATING
LUPE CARRASCO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 09/02/2015
Reported: 09/08/2015
Project Name: HARPER STATE #9
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1 - 2' (H502337-02)

BTEX 80218		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2015	ND	1.96	98.1	2.00	0.983	
Toluene*	<0.050	0.050	09/04/2015	ND	1.79	89.3	2.00	1.10	
Ethylbenzene*	<0.050	0.050	09/04/2015	ND	1.84	91.8	2.00	2.38	
Total Xylenes*	<0.150	0.150	09/04/2015	ND	5.74	95.7	6.00	0.630	
Total BTEX	<0.300	0.300	09/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	09/04/2015	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	09/03/2015	ND	180	90.2	200	1.56	
DRO >C10-C28	<50.0	50.0	09/03/2015	ND	196	97.9	200	2.48	

Surrogate: 1-Chlorooctane 65.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 82.3 % 52.1-176

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*=Accredited Analyte

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Analytical Results For:

COG OPERATING
LUPE CARRASCO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 09/02/2015
Reported: 09/08/2015
Project Name: HARPER STATE #9
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1 - 3' (H502337-03)

BTEX 8021B			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2015	ND	1.96	98.1	2.00	0.983	
Toluene*	<0.050	0.050	09/04/2015	ND	1.79	89.3	2.00	1.10	
Ethylbenzene*	<0.050	0.050	09/04/2015	ND	1.84	91.8	2.00	2.38	
Total Xylenes*	<0.150	0.150	09/04/2015	ND	5.74	95.7	6.00	0.630	
Total BTEX	<0.300	0.300	09/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 85.6-137

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	09/04/2015	ND	432	108	400	7.69	

TPH 8015M			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/03/2015	ND	180	90.2	200	1.56	
DRO >C10-C28	<10.0	10.0	09/03/2015	ND	196	97.9	200	2.48	

Surrogate: 1-Chlorooctane 78.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 82.7 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

COG OPERATING
LUPE CARRASCO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 09/02/2015
Reported: 09/08/2015
Project Name: HARPER STATE #9
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1 - 4' (H502337-04)
BTEX 8021B

mg/kg

Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2015	ND	1.96	98.1	2.00	0.983	
Toluene*	<0.050	0.050	09/04/2015	ND	1.79	89.3	2.00	1.10	
Ethylbenzene*	<0.050	0.050	09/04/2015	ND	1.84	91.8	2.00	2.38	
Total Xylenes*	<0.150	0.150	09/04/2015	ND	5.74	95.7	6.00	0.630	
Total BTEX	<0.300	0.300	09/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 85.6-137

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	09/04/2015	ND	432	108	400	7.69	

TPH 8015M

mg/kg

Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/03/2015	ND	180	90.2	200	1.56	
DRO >C10-C28	<10.0	10.0	09/03/2015	ND	196	97.9	200	2.48	

Surrogate: 1-Chlorooctane 77.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 81.4 % 52.1-176

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Analytical Results For:

COG OPERATING
LUPE CARRASCO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 09/02/2015
Reported: 09/08/2015
Project Name: HARPER STATE #9
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2 - 1' (H502337-05)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2015	ND	1.96	98.1	2.00	0.983	
Toluene*	<0.050	0.050	09/04/2015	ND	1.79	89.3	2.00	1.10	
Ethylbenzene*	<0.050	0.050	09/04/2015	ND	1.84	91.8	2.00	2.38	
Total Xylenes*	<0.150	0.150	09/04/2015	ND	5.74	95.7	6.00	0.630	
Total BTEX	<0.300	0.300	09/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	09/04/2015	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/03/2015	ND	180	90.2	200	1.56	
DRO >C10-C28	<10.0	10.0	09/03/2015	ND	196	97.9	200	2.48	

Surrogate: 1-Chlorooctane 81.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 79.7 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

COG OPERATING
LUPE CARRASCO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 09/02/2015
Reported: 09/08/2015
Project Name: HARPER STATE #9
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2 - 2' (H502337-06)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2015	ND	1.96	98.1	2.00	0.983	
Toluene*	<0.050	0.050	09/04/2015	ND	1.79	89.3	2.00	1.10	
Ethylbenzene*	<0.050	0.050	09/04/2015	ND	1.84	91.8	2.00	2.38	
Total Xylenes*	<0.150	0.150	09/04/2015	ND	5.74	95.7	6.00	0.630	
Total BTEX	<0.300	0.300	09/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 100 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	09/04/2015	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/03/2015	ND	180	90.2	200	1.56	
DRO >C10-C28	<10.0	10.0	09/03/2015	ND	196	97.9	200	2.48	

Surrogate: 1-Chlorooctane 77.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 79.6 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

COG OPERATING
LUPE CARRASCO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 09/02/2015
Reported: 09/08/2015
Project Name: HARPER STATE #9
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2 - 3' (H502337-07)

BTEX 8021B			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2015	ND	1.96	98.1	2.00	0.983	
Toluene*	<0.050	0.050	09/04/2015	ND	1.79	89.3	2.00	1.10	
Ethylbenzene*	<0.050	0.050	09/04/2015	ND	1.84	91.8	2.00	2.38	
Total Xylenes*	<0.150	0.150	09/04/2015	ND	5.74	95.7	6.00	0.630	
Total BTEX	<0.300	0.300	09/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIB) 101 % 85.6-137

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	09/04/2015	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/03/2015	ND	180	90.2	200	1.56	
DRO >C10-C28	<10.0	10.0	09/03/2015	ND	196	97.9	200	2.48	

Surrogate: 1-Chlorooctane 78.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 85.9 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

COG OPERATING
LUPE CARRASCO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 09/02/2015
Reported: 09/08/2015
Project Name: HARPER STATE #9
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/27/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2 - 4' (H502337-08)

BTEX 8021B			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/04/2015	ND	1.96	98.1	2.00	0.983	
Toluene*	<0.050	0.050	09/04/2015	ND	1.79	89.3	2.00	1.10	
Ethylbenzene*	<0.050	0.050	09/04/2015	ND	1.84	91.8	2.00	2.38	
Total Xylenes*	<0.150	0.150	09/04/2015	ND	5.74	95.7	6.00	0.630	
Total BTEX	<0.300	0.300	09/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 85.6-137

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	09/04/2015	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/03/2015	ND	180	90.2	200	1.56	
DRO >C10-C28	<10.0	10.0	09/03/2015	ND	196	97.9	200	2.48	

Surrogate: 1-Chlorooctane 76.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 81.6 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



ANALYSIS REQUEST

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

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

State of New Mexico
Energy Minerals and Natural Resources

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 in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: COG Operating LLC	Contact: Robert McNeill
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No. 432-230-0077
Facility Name: Harper State #9	Facility Type: Well

Surface Owner: State	Mineral Owner:	API No. 30-015-34869
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LOCATION OF RELEASE

Unit Letter I	Section 16	Township 17S	Range 30E	Feet from the 2310'	North/South Line South	Feet from the 330'	East/West Line East	County Eddy
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Latitude 32.8336678 Longitude -103.9695129

NATURE OF RELEASE

Type of Release: Oil & Produced Water	Volume of Release: 5 bbls Oil ; 15 bbls PW	Volume Recovered: 4 bbls Oil ; 14 bbls PW
Source of Release: Flowline	Date and Hour of Occurrence: 8/2/2015 9:00 am	Date and Hour of Discovery: 8/2/2015 9:00 am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*


Describe Cause of Problem and Remedial Action Taken.*

This release was caused by a corroded flowline. A vacuum truck was dispatched to recover all standing fluids and repairs were made to the flowline.

Describe Area Affected and Cleanup Action Taken.*

This release occurred in the pasture. Standing fluids were recovered and a treatment of Microblaze applied. Concho will have the spill site sampled to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation work.

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: Amanda Trujillo	Approved by Environmental Specialist:		
Title: Senior Environmental Coordinator	Approval Date:	Expiration Date:	
E-mail Address: atrujillo@concho.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 8/16/2015 Phone: 575-748-6940			

* Attach Additional Sheets If Necessary