



**RECEIVED**

*By OCD; Dr. Oberding at 8:35 am, Apr 13, 2015*

# CONOCOPHILLIPS

P.O. Box 2197

Houston, TX 77252-2197

Phone 281.293.1000

**APPROVED** Conditionally

*By OCD; Dr. Oberding at 8:41 am, Apr 13, 2015*

Stipulation:

1) Obtain concurrence from the BLM.

## MCA Battery 2 (1RP-3220) & (1RP-3320)

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# Termination Request

API No. 3002500733

Release Date: December 19<sup>th</sup>, 2013 & September 11<sup>th</sup>, 2014

Unit Letter D, Section 28, Township 17S, Range 32E

**April 9, 2015**

**Dr. Tomáš Oberding, PhD**

Environmental Specialist – New Mexico Oil Conservation Division  
Energy, Minerals and Natural Resources Department  
1625 N. French Dr.  
Hobbs, NM 88240

**RE: Termination Request  
ConocoPhillips MCA Battery 2 (1RP-3220) & (1RP-3320)  
UL/D sec. 28 T17S R32E  
API No. 3002500733**

Dr. Oberding:

ConocoPhillips (CoP) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced site.

### **Background and Previous Work**

The site is located approximately 3.2 miles southwest of Maljamar, New Mexico at UL/D sec. 28 T17S R32E. NM OSE records indicate that groundwater will likely be encountered at a depth of approximately 81 +/- feet.

On December 19<sup>th</sup>, 2013, a 4 inch fiberglass water transfer line leaked, releasing 573 barrels of produced water over 8,951 square feet of lease road and pasture land. Vacuum trucks were called to the site and recovered 440 barrels of produced water. NMOCD and BLM were notified of the release on December 20<sup>th</sup>, 2013. On September 11<sup>th</sup>, 2014, during remediation activities for the first release, the 4 inch fiberglass water transfer line was hit and released 41.06 barrels of produced water into the excavation. A vacuum truck was called to the site and recovered 40 barrels of produced water. The wet material from inside the excavation was scraped out and taken to a NMOCD approved facility for disposal. NMOCD was notified of the release on September 11<sup>th</sup>, 2014. Initial C-141s for both incidents were sent to NMOCD and BLM for their approval. NMOCD approved 1RP-3220 on August 8<sup>th</sup>, 2014, and 1RP-3320 on September 15<sup>th</sup>, 2014 (Appendix A).

RECS personnel were on site beginning on February 5<sup>th</sup>, 2014 to assess the first release. The site had already been scraped down 6 inches to remove the wet material. Five points within the release area were sampled at the surface of the scrape and with depth (Figure 1). At Point 1, Point 3 and Point 4, the soil samples from each point were field tested for chlorides and organic vapors and then taken to a commercial laboratory for analysis. All three points returned laboratory chloride readings below 250 mg/kg, with Gasoline Range Organic (GRO) readings and BTEX readings of non-detect. Diesel Range Organics (DRO) readings at all three points returned values below regulatory standards (Appendix B). Point 2 was sampled every foot to a

depth of 14 ft bgs. The samples were field tested for chlorides and organic vapors. Representative samples from Point 2 were taken to a commercial laboratory for analysis. At 14 ft bgs, laboratory chloride readings were still elevated; however, GRO and BTEX readings decreased with depth to non-detectable levels. The DRO readings steadily decreased with depth to a value of 22.4 mg/kg at 14 ft bgs. Point 5 was sampled to a depth of 10 ft bgs, and all samples were field tested for chlorides and organic vapors. Representative samples from Point 5 were taken to a commercial laboratory for analysis. Both the 9 ft bgs and 10 ft bgs samples returned laboratory chloride, GRO, and BTEX readings of non-detect. At 9 ft bgs, the DRO reading returned a result of 12 mg/kg, and at 10 ft bgs, the DRO reading returned a result of non-detect.

On April 10<sup>th</sup>, 2014, a Corrective Action Plan (CAP) was submitted to NMOCD for approval. The CAP stated that based on the laboratory analysis of the site, no further actions to Point 1, Point 3 and Point 4 were warranted. The area around Point 2 and Point 5, encompassing approximately 2,643 square feet, would be excavated to 4 ft bgs. A 20-mil reinforced poly liner would be installed and properly seated at the base of the final excavation. The excavated soils would be evaluated for use as backfill and any soils that did not meet regulatory standards would be taken to a NMOCD approved facility for disposal. Clean soil would be imported to the site to replace any soils taken to disposal. The excavated soils would be blended on site with any imported soil to use as backfill. A sample of the blended soil would be taken to a commercial laboratory to confirm that the chloride value was below 500 mg/kg and the combined TPH was below 1,000 mg/kg.

The area around the source of the release blew out with the pressure of the release leaving a depressed area of approximately 590 square feet around the line at approximately 4 ft deep. At the base of this depression, a 20-mil reinforced poly liner would be installed and properly seated.

Both lined areas and the previously scraped areas would be backfilled with the blended soil to the surface and contoured to the surrounding location. Upon completion of backfilling, soil amendments would be added to the site as needed, and the site will be seeded with LPC mix.

NMOCD denied the CAP on April 10<sup>th</sup>, 2014. NMOCD required a sample to be taken in the trench area, and NMOCD would respond with a path forward.

On June 3<sup>rd</sup>, 2014, the trench area was sampled. A sample from each wall and from the bottom of the north trench excavation was taken to a commercial laboratory for analysis. Only the north wall and bottom sample returned laboratory constituents below regulatory standards (Appendix C). The remaining wall samples returned elevated chloride readings, DRO readings or both.

RECS personnel met with NMOCD on August 8<sup>th</sup>, 2014. Per this discussion, a path forward was sent to NMOCD and BLM. The path forward stated that the source trenched excavation would have its east, west and south walls extended until laboratory readings for these walls returned constituents below regulatory standards. A liner would not be installed in this excavation, since the bottom sample returned laboratory results below regulatory standards. The area around Point 2 and Point 5 would be excavated to a depth of 4 ft bgs. At the base of the excavation, a 20-mil

reinforced poly liner would be installed and properly seated. NMOCD approved the path forward on August 8<sup>th</sup>, 2014, and BLM approved the path forward on August 11<sup>th</sup>, 2014.

Corrective actions began at the site on September 11<sup>th</sup>, 2014. As the area around Point 2 and Point 5 was excavated to 4 ft bgs, a 4 inch fiberglass line was hit causing the 1RP-3320 release. A vacuum truck was called to the site to remove the fluid from the excavation. Given that the new release was encompassed in the excavation being conducted for the prior release, once the wet material was removed, the excavation for liner installation continued. When the entire release area to the south was excavated to a depth of 4 ft bgs, a 20-mil reinforced poly liner was installed and properly seated into the base of the excavation. The north trenched excavation had its east, west and south walls expanded. A sample from each wall was taken and field tested for chlorides and organic vapors (Figure 2). The samples were then taken to a commercial laboratory for analysis and returned chloride values below regulatory standards. GRO, DRO and BTEX readings returned values of non-detect, except for the south wall, which returned a DRO value of 442 mg/kg.

A request to backfill the site was sent to NMOCD and BLM on October 6<sup>th</sup>, 2014, and both agencies approved the request that same day. Approximately 800 cubic yards of contaminated soil was taken to a NMOCD approved facility for disposal. A total of 860 cubic yards of top soil was imported to the site to serve as backfill. A sample of the imported top soil was taken to a commercial laboratory and returned a chloride result of non-detect. Both the north and south excavation were backfilled with the imported top soil and contoured to the surrounding location. On March 3<sup>rd</sup>, 2015, the disturbed areas in the pasture were seeded with BLM mix #2.

Photo documentation of all field activities can be found in Appendix D.

Given that CoP has completed the actions as prescribed by NMOCD and BLM, CoP respectfully request 'remediation termination' and site closure. The final C-141s can be found in Appendix E.

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 393-2967 or me if you have any questions or wish to discuss the site.

Sincerely,



Lara Weinheimer  
Project Scientist  
RECS  
(575) 441-0431

Attachments:

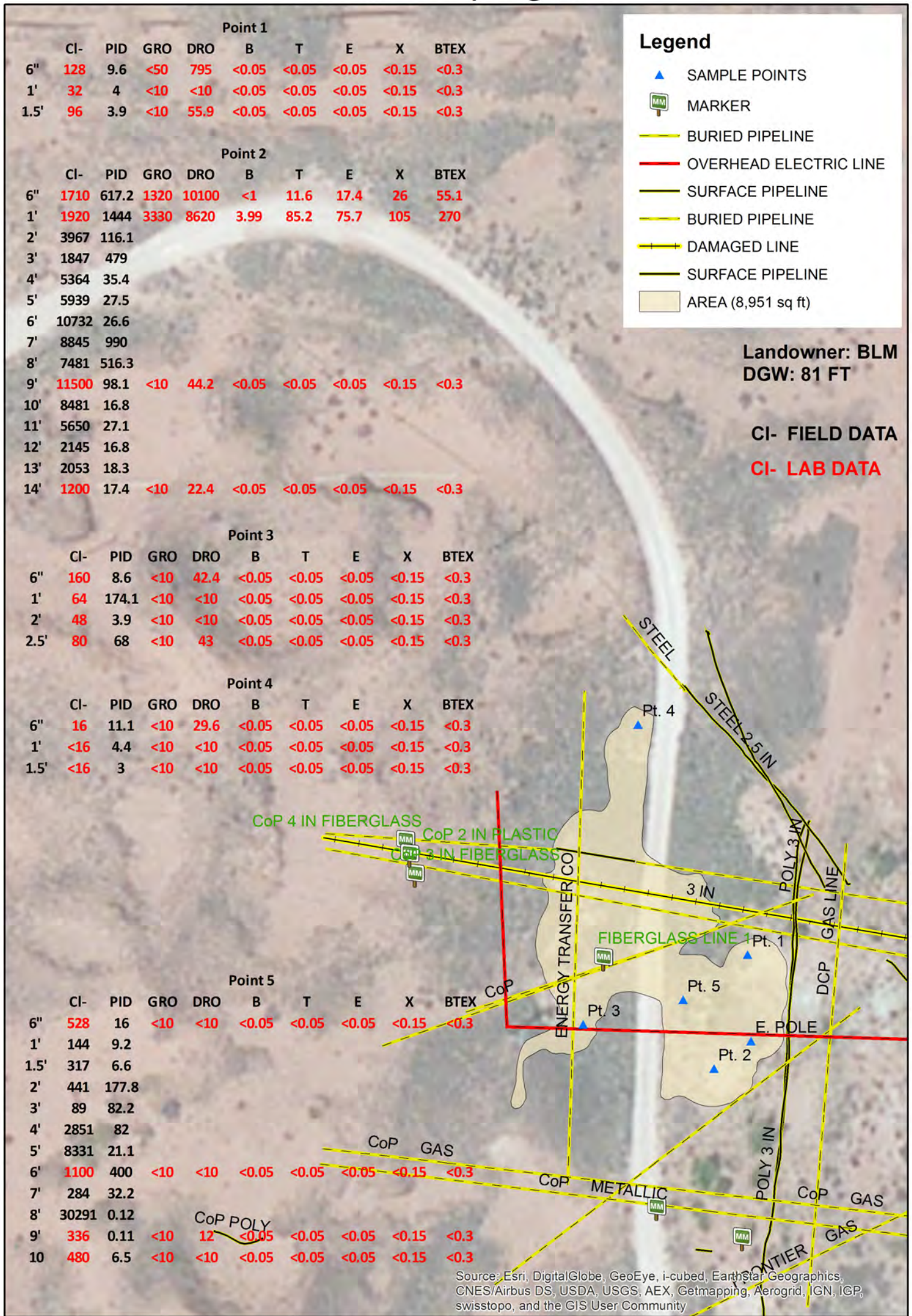
Figure 1 – Initial Sampling Data



Figure 2 – Excavation Data  
Appendix A – Initial C-141s  
Appendix B – Initial Sampling Lab  
Appendix C – Corrective Action Labs  
Appendix D – Photo Documentation  
Appendix E – Final C-141s

# Figures

## Initial Sampling Data

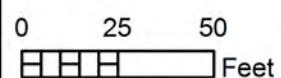


**CONOCOPHILLIPS**  
**MCA BATTERY 2**

## 1RP-3220 & 1RP-3320

LEGALS: UL/D sec. 28  
T-17-S R-32-E  
LEA COUNTY, NM

Figure 1

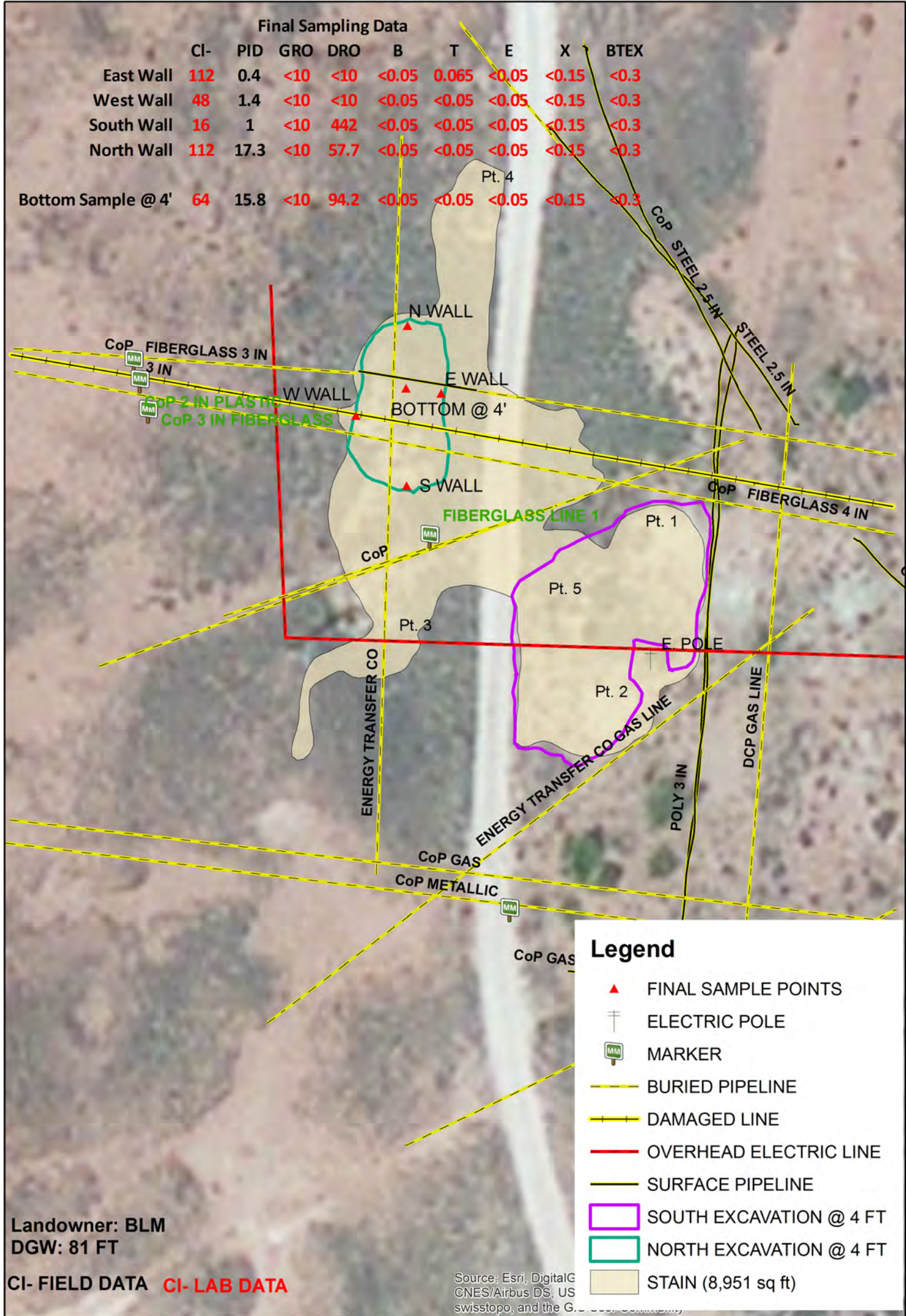


GPS date: 2/21/14  
Drawing date: 2/26/14  
Drafted by: L. Weinheimer





Excavation Data



**RECS**  
RICE ENVIRONMENTAL  
CONSULTING & SAFETY

**CONOCOPHILLIPS**  
**MCA BATTERY 2**  
1RP-3220 & 1RP-3320  
LEGALS: UL/D sec. 28  
T-17-S R-32-E  
LEA COUNTY, NM

**Figure 2**

0 25 50 Feet

GPS date: 10/1/14 AG, 10/6/14 CF W  
Drawing date: 10/7/14  
Drafted by: L. Weinheimer, B. Cooper

# Appendix A

Initial C-141s

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: ConocoPhillips	Contact: David May
Address: 29 Vacuum Complex Lane	Telephone No. 575-391-3106/575-631-5907
Facility Name: MCA battery 2	Facility Type: Water Transfer Line

Surface Owner: BLM	Mineral Owner BLM	API No. 3002500733
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LOCATION OF RELEASE

Unit Letter D	Section 28	Township 17S	Range 32E	Feet from the 660	North/South Line North	Feet from the 660	East/West Line west	County LEA
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Latitude 32.8110313626827

Longitude - 103.777900360354

NATURE OF RELEASE

Type of Release: Spill	Volume of Release: 573 BBLS	Volume Recovered: 440 BBLS
Source of Release: 4 inch fiberglass water transfer line	Date and Hour of Occurrence 12/19/13 5:13 pm	Date and Hour of Discovery SAME
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jim Amos/Geoffrey Leking	
By Whom? David May	Date and Hour: 12/20/13 9:45 am	
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.\*

Release originated from a 4 inch fiberglass trunk line that transfers produced water from several facilities to MCA Injection Station #2. The area MSO spotted the release while making final daily surveillance rounds. The affected line was identified, isolated, and locked out by the area MSO. Spill volumes were calculated to be 573 bbls of produced water with 440 bbls being recovered by vacuum trucks. The affected area was 175' x 68' of pasture and lease road. The incident is being investigated to determine root cause.

Describe Area Affected and Cleanup Action Taken.\*

The affected area was 175' x 68' of pasture and lease road. The incident is being investigated to determine root cause. The area will be remediated according to BLM and NMOCD guidelines.

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: <i>David May</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: David May	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: LEAD HSE	Approval Date: 6-8-19	Expiration Date: 10-10-19
E-mail Address: david.d.may@conocophillips.com	Conditions of Approval: <i>Site Sample report Debris &amp; mudwin area as per NMOCD guide</i>	Attached <input type="checkbox"/> <i>IRP-3220</i>
Date: 12/20/2013	Phone: 575-391-3106	<i>Submit final C-141 in</i>

\* Attach Additional Sheets If Necessary



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

SEP 15 2014

Form C-141  
Revised August 8, 2011

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

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

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## Release Notification and Corrective Action

## OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: <b>ConocoPhillips</b>	Contact: <b>Spencer Cluff</b>
Address: <b>29 Vacuum Complex Lane</b>	Telephone No. <b>575-391-3143</b>
Facility Name: <b>MCA Unit Station No. 2</b>	Facility Type: <b>Water Injection Station</b>

Surface Owner: <b>NMOCD</b>	Mineral Owner <b>NMOCD</b>	API No.
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## LOCATION OF RELEASE

Unit Letter	Section 28	Township 17	Range 35E	Feet from the	North/South Line	Feet from the	East/West Line	County LEA
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Latitude N32° 48.742' Longitude - W103° 46.465

## NATURE OF RELEASE

Type of Release: <b>Spill</b>	Volume of Release: <b>41.06 BBLs</b>	Volume Recovered: <b>40 BBLs</b>
Source of Release: <b>Water Transfer Line</b>	Date and Hour of Occurrence <b>09/11/14 2:45 pm</b>	Date and Hour of Discovery <b>09/11/2014 5:00 am</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Tomáš Oberding</b>	
By Whom? <b>Spencer Cluff</b>	Date and Hour: <b>09/12/2014 7:10 am</b>	
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.\*

On September 11th, 2014, at 1445 hrs. MST at the Maljamar MCA lease, a release of produced water occurred. The release originated from a 4" fiberglass water transfer line that was damaged during remediation activities. MSOs immediately isolated line, stopping the release. The affected area was 38 ft. X 15 ft. X 2 inches deep and resulted in 41.06 BPW, with 40 bbls recovered. The affected area will be remediated according to NMOCD guidelines.

Describe Area Affected and Cleanup Action Taken.\*

MSOs immediately isolated line, stopping the release.

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: <i>Spencer A. Cluff</i>		<b>OIL CONSERVATION DIVISION</b>  Approved by Environmental Specialist:	
Printed Name: Spencer Cluff			
Title: <b>HSE Lead</b>	Approval Date: <b>9-15-14</b>	Expiration Date: <b>11-15-14</b>	
E-mail Address: <b>spencer.a.cluff@conocophillips.com</b>	Conditions of Approval: <i>Site Sample required, submit &amp; submit man on per NMOCD guidelines. Submit final C-141 by 11-15-14.</i>		Attached <input type="checkbox"/>  <b>11P-3320</b>
Date: 09/12/2014	Phone: 575-391-3143		

\* Attach Additional Sheets If Necessary

SEP 16 2014

09/12 09/165  
 2701425 853983  
 0701425 854158  
 76 1425 853762

# Appendix B

## Initial Sampling Lab

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967



February 26, 2014

KYLE NORMAN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: CONOCO PHILLIPS MCA STATION 2

Enclosed are the results of analyses for samples received by the laboratory on 02/25/14 11:55.

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](http://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:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
KYLE NORMAN  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received:	02/25/2014	Sampling Date:	02/21/2014
Reported:	02/26/2014	Sampling Type:	Soil
Project Name:	CONOCO PHILLIPS MCA STATION 2	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: PT. 1 6" (H400564-01)**

BTEX 8260B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2014	ND	2.09	105	2.00	1.77	
Toluene*	<0.050	0.050	02/26/2014	ND	2.18	109	2.00	2.03	
Ethylbenzene*	<0.050	0.050	02/26/2014	ND	2.07	103	2.00	1.54	
Total Xylenes*	<0.150	0.150	02/26/2014	ND	6.33	105	6.00	2.34	
Total BTEX	<0.300	0.300	02/26/2014	ND					

Surrogate: Dibromofluoromethane 99.3 % 61.3-142

Surrogate: Toluene-d8 99.2 % 71.3-129

Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/26/2014	ND	400	100	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	<50.0	50.0	02/25/2014	ND	209	105	200	0.228	
DRO >C10-C28	795	50.0	02/25/2014	ND	203	101	200	0.0533	

Surrogate: 1-Chlorooctane 97.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
KYLE NORMAN  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received:	02/25/2014	Sampling Date:	02/20/2014
Reported:	02/26/2014	Sampling Type:	Soil
Project Name:	CONOCO PHILLIPS MCA STATION 2	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: PT. 1 1' (H400564-02)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2014	ND	2.13	106	2.00	3.16	
Toluene*	<0.050	0.050	02/25/2014	ND	2.24	112	2.00	5.46	
Ethylbenzene*	<0.050	0.050	02/25/2014	ND	2.13	106	2.00	3.65	
Total Xylenes*	<0.150	0.150	02/25/2014	ND	6.47	108	6.00	4.13	
Total BTX	<0.300	0.300	02/25/2014	ND					

Surrogate: Dibromofluoromethane 94.4 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 101 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/26/2014	ND	400	100	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	02/25/2014	ND	209	105	200	0.228	
DRO >C10-C28	<10.0	10.0	02/25/2014	ND	203	101	200	0.0533	

Surrogate: 1-Chlorooctane 91.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.4 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
KYLE NORMAN  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received:	02/25/2014	Sampling Date:	02/20/2014
Reported:	02/26/2014	Sampling Type:	Soil
Project Name:	CONOCO PHILLIPS MCA STATION 2	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: PT. 1 1.5' (H400564-03)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2014	ND	2.13	106	2.00	3.16	
Toluene*	<0.050	0.050	02/25/2014	ND	2.24	112	2.00	5.46	
Ethylbenzene*	<0.050	0.050	02/25/2014	ND	2.13	106	2.00	3.65	
Total Xylenes*	<0.150	0.150	02/25/2014	ND	6.47	108	6.00	4.13	
Total BTX	<0.300	0.300	02/25/2014	ND					

Surrogate: Dibromofluoromethane 94.8 % 61.3-142

Surrogate: Toluene-d8 103 % 71.3-129

Surrogate: 4-Bromofluorobenzene 101 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/26/2014	ND	400	100	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	02/25/2014	ND	209	105	200	0.228	
DRO >C10-C28	55.9	10.0	02/25/2014	ND	203	101	200	0.0533	

Surrogate: 1-Chlorooctane 96.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.5 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
KYLE NORMAN  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received:	02/25/2014	Sampling Date:	02/21/2014
Reported:	02/26/2014	Sampling Type:	Soil
Project Name:	CONOCO PHILLIPS MCA STATION 2	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: PT. 2 6" (H400564-04)**

BTX 8260B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	02/26/2014	ND	2.09	105	2.00	1.77	
Toluene*	11.6	1.00	02/26/2014	ND	2.18	109	2.00	2.03	
Ethylbenzene*	17.4	1.00	02/26/2014	ND	2.07	103	2.00	1.54	
Total Xylenes*	26.0	3.00	02/26/2014	ND	6.33	105	6.00	2.34	
Total BTX	55.1	6.00	02/26/2014	ND					

Surrogate: Dibromofluoromethane 99.9 % 61.3-142  
Surrogate: Toluene-d8 97.4 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 137 % 65.7-141

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1710	16.0	02/26/2014	ND	400	100	400	0.00	

TPH 8015M			mg/kg		Analyzed By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	1320	100	02/25/2014	ND	209	105	200	0.228		
DRO >C10-C28	10100	100	02/25/2014	ND	203	101	200	0.0533		

Surrogate: 1-Chlorooctane 171 % 65.2-140  
Surrogate: 1-Chlorooctadecane 262 % 63.6-154

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KYLE NORMAN  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received:	02/25/2014	Sampling Date:	02/21/2014
Reported:	02/26/2014	Sampling Type:	Soil
Project Name:	CONOCO PHILLIPS MCA STATION 2	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: PT. 2 1' (H400564-05)**

BTX 8260B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>3.99</b>	2.00	02/26/2014	ND	2.09	105	2.00	1.77	
<b>Toluene*</b>	<b>85.2</b>	2.00	02/26/2014	ND	2.18	109	2.00	2.03	
<b>Ethylbenzene*</b>	<b>75.7</b>	2.00	02/26/2014	ND	2.07	103	2.00	1.54	
<b>Total Xylenes*</b>	<b>105</b>	6.00	02/26/2014	ND	6.33	105	6.00	2.34	
<b>Total BTX</b>	<b>270</b>	12.0	02/26/2014	ND					

Surrogate: Dibromofluoromethane 94.7 % 61.3-142

Surrogate: Toluene-d8 100 % 71.3-129

Surrogate: 4-Bromofluorobenzene 136 % 65.7-141

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1920</b>	16.0	02/26/2014	ND	400	100	400	0.00	

TPH 8015M			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>3330</b>	100	02/25/2014	ND	209	105	200	0.228	
<b>DRO &gt;C10-C28</b>	<b>8620</b>	100	02/25/2014	ND	203	101	200	0.0533	

Surrogate: 1-Chlorooctane 291 % 65.2-140

Surrogate: 1-Chlorooctadecane 459 % 63.6-154

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KYLE NORMAN  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received:	02/25/2014	Sampling Date:	02/21/2014
Reported:	02/26/2014	Sampling Type:	Soil
Project Name:	CONOCO PHILLIPS MCA STATION 2	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: PT. 2 9' (H400564-06)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2014	ND	2.13	106	2.00	3.16	
Toluene*	<0.050	0.050	02/25/2014	ND	2.24	112	2.00	5.46	
Ethylbenzene*	<0.050	0.050	02/25/2014	ND	2.13	106	2.00	3.65	
Total Xylenes*	<0.150	0.150	02/25/2014	ND	6.47	108	6.00	4.13	
Total BTX	<0.300	0.300	02/25/2014	ND					

Surrogate: Dibromofluoromethane 92.2 % 61.3-142

Surrogate: Toluene-d8 103 % 71.3-129

Surrogate: 4-Bromofluorobenzene 106 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11500	16.0	02/26/2014	ND	400	100	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	02/25/2014	ND	209	105	200	0.228	
DRO >C10-C28	44.2	10.0	02/25/2014	ND	203	101	200	0.0533	

Surrogate: 1-Chlorooctane 94.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.7 % 63.6-154

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Fax To: (575) 397-1471

Received:	02/25/2014	Sampling Date:	02/21/2014
Reported:	02/26/2014	Sampling Type:	Soil
Project Name:	CONOCO PHILLIPS MCA STATION 2	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: PT. 2 14' (H400564-07)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2014	ND	2.13	106	2.00	3.16	
Toluene*	<0.050	0.050	02/25/2014	ND	2.24	112	2.00	5.46	
Ethylbenzene*	<0.050	0.050	02/25/2014	ND	2.13	106	2.00	3.65	
Total Xylenes*	<0.150	0.150	02/25/2014	ND	6.47	108	6.00	4.13	
Total BTX	<0.300	0.300	02/25/2014	ND					

Surrogate: Dibromofluoromethane 94.8 % 61.3-142  
Surrogate: Toluene-d8 103 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1200	16.0	02/26/2014	ND	400	100	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	02/25/2014	ND	209	105	200	0.228	
DRO >C10-C28	22.4	10.0	02/25/2014	ND	203	101	200	0.0533	

Surrogate: 1-Chlorooctane 91.8 % 65.2-140  
Surrogate: 1-Chlorooctadecane 93.9 % 63.6-154

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Fax To: (575) 397-1471

Received:	02/25/2014	Sampling Date:	02/21/2014
Reported:	02/26/2014	Sampling Type:	Soil
Project Name:	CONOCO PHILLIPS MCA STATION 2	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: PT. 3 6" (H400564-08)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2014	ND	2.13	106	2.00	3.16	
Toluene*	<0.050	0.050	02/25/2014	ND	2.24	112	2.00	5.46	
Ethylbenzene*	<0.050	0.050	02/25/2014	ND	2.13	106	2.00	3.65	
Total Xylenes*	<0.150	0.150	02/25/2014	ND	6.47	108	6.00	4.13	
Total BTEx	<0.300	0.300	02/25/2014	ND					

Surrogate: Dibromofluoromethane 99.8 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/26/2014	ND	400	100	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	02/26/2014	ND	209	105	200	0.228	
DRO >C10-C28	42.4	10.0	02/26/2014	ND	203	101	200	0.0533	

Surrogate: 1-Chlorooctane 91.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.3 % 63.6-154

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KYLE NORMAN  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received:	02/25/2014	Sampling Date:	02/21/2014
Reported:	02/26/2014	Sampling Type:	Soil
Project Name:	CONOCO PHILLIPS MCA STATION 2	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: PT. 3 1' (H400564-09)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2014	ND	2.13	106	2.00	3.16	
Toluene*	<0.050	0.050	02/25/2014	ND	2.24	112	2.00	5.46	
Ethylbenzene*	<0.050	0.050	02/25/2014	ND	2.13	106	2.00	3.65	
Total Xylenes*	<0.150	0.150	02/25/2014	ND	6.47	108	6.00	4.13	
Total BTX	<0.300	0.300	02/25/2014	ND					

Surrogate: Dibromofluoromethane 97.0 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 98.1 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/26/2014	ND	400	100	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	02/26/2014	ND	209	105	200	0.228	
DRO >C10-C28	<10.0	10.0	02/26/2014	ND	203	101	200	0.0533	

Surrogate: 1-Chlorooctane 92.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.3 % 63.6-154

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Fax To: (575) 397-1471

Received:	02/25/2014	Sampling Date:	02/20/2014
Reported:	02/26/2014	Sampling Type:	Soil
Project Name:	CONOCO PHILLIPS MCA STATION 2	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: PT. 3 2' (H400564-10)**

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/25/2014	ND	2.13	106	2.00	3.16		
Toluene*	<0.050	0.050	02/25/2014	ND	2.24	112	2.00	5.46		
Ethylbenzene*	<0.050	0.050	02/25/2014	ND	2.13	106	2.00	3.65		
Total Xylenes*	<0.150	0.150	02/25/2014	ND	6.47	108	6.00	4.13		
Total BTEX	<0.300	0.300	02/25/2014	ND						

Surrogate: Dibromofluoromethane 96.3 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 101 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	02/26/2014	ND	400	100	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	02/26/2014	ND	209	105	200	0.228	
DRO >C10-C28	<10.0	10.0	02/26/2014	ND	203	101	200	0.0533	

Surrogate: 1-Chlorooctane 82.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 82.9 % 63.6-154

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Fax To: (575) 397-1471

Received:	02/25/2014	Sampling Date:	02/21/2014
Reported:	02/26/2014	Sampling Type:	Soil
Project Name:	CONOCO PHILLIPS MCA STATION 2	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: PT. 3 2.5' (H400564-11)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2014	ND	2.13	106	2.00	3.16	
Toluene*	<0.050	0.050	02/25/2014	ND	2.24	112	2.00	5.46	
Ethylbenzene*	<0.050	0.050	02/25/2014	ND	2.13	106	2.00	3.65	
Total Xylenes*	<0.150	0.150	02/25/2014	ND	6.47	108	6.00	4.13	
Total BTEx	<0.300	0.300	02/25/2014	ND					

Surrogate: Dibromofluoromethane 94.4 % 61.3-142  
Surrogate: Toluene-d8 101 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 98.9 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/26/2014	ND	400	100	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	02/26/2014	ND	209	105	200	0.228	
DRO >C10-C28	43.0	10.0	02/26/2014	ND	203	101	200	0.0533	

Surrogate: 1-Chlorooctane 99.7 % 65.2-140  
Surrogate: 1-Chlorooctadecane 100 % 63.6-154

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HOBBS NM, 88240  
Fax To: (575) 397-1471

Received:	02/25/2014	Sampling Date:	02/21/2014
Reported:	02/26/2014	Sampling Type:	Soil
Project Name:	CONOCO PHILLIPS MCA STATION 2	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: PT. 4 6" (H400564-12)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2014	ND	2.13	106	2.00	3.16	
Toluene*	<0.050	0.050	02/25/2014	ND	2.24	112	2.00	5.46	
Ethylbenzene*	<0.050	0.050	02/25/2014	ND	2.13	106	2.00	3.65	
Total Xylenes*	<0.150	0.150	02/25/2014	ND	6.47	108	6.00	4.13	
Total BTX	<0.300	0.300	02/25/2014	ND					

Surrogate: Dibromofluoromethane 94.4 % 61.3-142  
Surrogate: Toluene-d8 101 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 98.5 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/26/2014	ND	400	100	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	02/26/2014	ND	209	105	200	0.228	
DRO >C10-C28	29.6	10.0	02/26/2014	ND	203	101	200	0.0533	

Surrogate: 1-Chlorooctane 92.8 % 65.2-140  
Surrogate: 1-Chlorooctadecane 94.5 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
KYLE NORMAN  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received:	02/25/2014	Sampling Date:	02/20/2014
Reported:	02/26/2014	Sampling Type:	Soil
Project Name:	CONOCO PHILLIPS MCA STATION 2	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: PT. 4 1' (H400564-13)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2014	ND	2.13	106	2.00	3.16	
Toluene*	<0.050	0.050	02/25/2014	ND	2.24	112	2.00	5.46	
Ethylbenzene*	<0.050	0.050	02/25/2014	ND	2.13	106	2.00	3.65	
Total Xylenes*	<0.150	0.150	02/25/2014	ND	6.47	108	6.00	4.13	
Total BTX	<0.300	0.300	02/25/2014	ND					

Surrogate: Dibromofluoromethane 95.0 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 99.6 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/26/2014	ND	400	100	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	02/26/2014	ND	209	105	200	0.228	
DRO >C10-C28	<10.0	10.0	02/26/2014	ND	203	101	200	0.0533	

Surrogate: 1-Chlorooctane 93.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.2 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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RICE ENVIRONMENTAL CONSULTING & SAFETY  
KYLE NORMAN  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received:	02/25/2014	Sampling Date:	02/20/2014
Reported:	02/26/2014	Sampling Type:	Soil
Project Name:	CONOCO PHILLIPS MCA STATION 2	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: PT. 4 1.5' (H400564-14)**

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2014	ND	2.13	106	2.00	3.16	
Toluene*	<0.050	0.050	02/25/2014	ND	2.24	112	2.00	5.46	
Ethylbenzene*	<0.050	0.050	02/25/2014	ND	2.13	106	2.00	3.65	
Total Xylenes*	<0.150	0.150	02/25/2014	ND	6.47	108	6.00	4.13	
Total BTX	<0.300	0.300	02/25/2014	ND					

Surrogate: Dibromofluoromethane 95.5 % 61.3-142  
Surrogate: Toluene-d8 102 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 99.6 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/26/2014	ND	400	100	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	02/26/2014	ND	209	105	200	0.228	
DRO >C10-C28	<10.0	10.0	02/26/2014	ND	203	101	200	0.0533	

Surrogate: 1-Chlorooctane 90.9 % 65.2-140  
Surrogate: 1-Chlorooctadecane 88.2 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
KYLE NORMAN  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received:	02/25/2014	Sampling Date:	02/21/2014
Reported:	02/26/2014	Sampling Type:	Soil
Project Name:	CONOCO PHILLIPS MCA STATION 2	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: PT. 5 6" (H400564-15)**

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/25/2014	ND	2.13	106	2.00	3.16		
Toluene*	<0.050	0.050	02/25/2014	ND	2.24	112	2.00	5.46		
Ethylbenzene*	<0.050	0.050	02/25/2014	ND	2.13	106	2.00	3.65		
Total Xylenes*	<0.150	0.150	02/25/2014	ND	6.47	108	6.00	4.13		
Total BTEX	<0.300	0.300	02/25/2014	ND						

Surrogate: Dibromofluoromethane 96.1 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 99.9 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	02/26/2014	ND	400	100	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	02/26/2014	ND	209	105	200	0.228	
DRO >C10-C28	<10.0	10.0	02/26/2014	ND	203	101	200	0.0533	

Surrogate: 1-Chlorooctane 96.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.7 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
KYLE NORMAN  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received:	02/25/2014	Sampling Date:	02/21/2014
Reported:	02/26/2014	Sampling Type:	Soil
Project Name:	CONOCO PHILLIPS MCA STATION 2	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: PT. 5 6' (H400564-16)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2014	ND	2.13	106	2.00	3.16	
Toluene*	<0.050	0.050	02/25/2014	ND	2.24	112	2.00	5.46	
Ethylbenzene*	<0.050	0.050	02/25/2014	ND	2.13	106	2.00	3.65	
Total Xylenes*	<0.150	0.150	02/25/2014	ND	6.47	108	6.00	4.13	
Total BTEX	<0.300	0.300	02/25/2014	ND					

Surrogate: Dibromofluoromethane 97.0 % 61.3-142

Surrogate: Toluene-d8 103 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	02/26/2014	ND	400	100	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	02/26/2014	ND	209	105	200	0.228	
DRO >C10-C28	<10.0	10.0	02/26/2014	ND	203	101	200	0.0533	

Surrogate: 1-Chlorooctane 97.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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RICE ENVIRONMENTAL CONSULTING & SAFETY  
KYLE NORMAN  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received:	02/25/2014	Sampling Date:	02/21/2014
Reported:	02/26/2014	Sampling Type:	Soil
Project Name:	CONOCO PHILLIPS MCA STATION 2	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: PT. 5 9' (H400564-17)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2014	ND	2.13	106	2.00	3.16	
Toluene*	<0.050	0.050	02/25/2014	ND	2.24	112	2.00	5.46	
Ethylbenzene*	<0.050	0.050	02/25/2014	ND	2.13	106	2.00	3.65	
Total Xylenes*	<0.150	0.150	02/25/2014	ND	6.47	108	6.00	4.13	
Total BTEX	<0.300	0.300	02/25/2014	ND					

Surrogate: Dibromofluoromethane 97.7 % 61.3-142  
Surrogate: Toluene-d8 102 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 98.8 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	02/26/2014	ND	400	100	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	02/26/2014	ND	209	105	200	0.228	
DRO >C10-C28	12.0	10.0	02/26/2014	ND	203	101	200	0.0533	

Surrogate: 1-Chlorooctane 88.0 % 65.2-140  
Surrogate: 1-Chlorooctadecane 90.2 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
KYLE NORMAN  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received:	02/25/2014	Sampling Date:	02/21/2014
Reported:	02/26/2014	Sampling Type:	Soil
Project Name:	CONOCO PHILLIPS MCA STATION 2	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: PT. 5 10' (H400564-18)**

BTX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/25/2014	ND	2.13	106	2.00	3.16		
Toluene*	<0.050	0.050	02/25/2014	ND	2.24	112	2.00	5.46		
Ethylbenzene*	<0.050	0.050	02/25/2014	ND	2.13	106	2.00	3.65		
Total Xylenes*	<0.150	0.150	02/25/2014	ND	6.47	108	6.00	4.13		
Total BTX	<0.300	0.300	02/25/2014	ND						

Surrogate: Dibromofluoromethane 95.4 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	02/26/2014	ND	400	100	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	02/26/2014	ND	209	105	200	0.228	
DRO >C10-C28	<10.0	10.0	02/26/2014	ND	203	101	200	0.0533	

Surrogate: 1-Chlorooctane 93.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.2 % 63.6-154

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\*=Accredited Analyte

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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.
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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Cardinal Laboratories

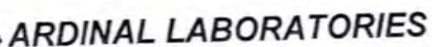
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---

Celey D. Keene, Lab Director/Quality Manager







101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603  
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

pg 1 of 2

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Relinquished By: 		Date: 2-25-2014	Received By: 	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No    Add'l Phone #:
Relinquished By:		Time: 11:55	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No    Add'l Fax #:
Delivered By: (Circle One)		Date:	Received By:	REMARKS:
Sampler - UPS - Bus - Other:		Time:	Sample Condition Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No    Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	email results hconder@ Knorman@ lweinheimer@
S/C		Checked By: (Initials) 	Checked By: (Initials) 	Iflores@ cflores@ sedwards@ ccesar@

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476





### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

pg 2 of 2

[illegible]

**PLEASE NOTE:** Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in 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.

Relinquished By:		Date: 2-25-2014	Received By:	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Time: 11:55				Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date:	Received By:	REMARKS:	
Time:				email results	
Delivered By: (Circle One)		Sample Condition	CHECKED BY:	lflores@	
Sampler - UPS - Bus - Other:		Cool Intact	(Initials)	hconderr@	
50C		<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes	CSH	cflores@	
		<input type="checkbox"/> No <input type="checkbox"/> No		ccesarea@	
				sedwards@	

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

# Appendix C

## Corrective Action Labs

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967

June 10, 2014

HACK CONDER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: MCA STATION #2

Enclosed are the results of analyses for samples received by the laboratory on 06/03/14 13:07.

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](http://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:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
HACK CONDER  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received:	06/03/2014	Sampling Date:	06/03/2014
Reported:	06/10/2014	Sampling Type:	Soil
Project Name:	MCA STATION #2	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: NORTH WALL CENTER (H401690-01)**

BTX 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	06/06/2014	ND	2.00	99.9	2.00	2.96		
Toluene*	<0.050	0.050	06/06/2014	ND	2.15	107	2.00	3.33		
Ethylbenzene*	<0.050	0.050	06/06/2014	ND	1.92	96.2	2.00	3.37		
Total Xylenes*	<0.150	0.150	06/06/2014	ND	5.97	99.5	6.00	3.41		
Total BTX	<0.300	0.300	06/06/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	06/05/2014	ND	416	104	400	3.92		

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	06/07/2014	ND	173	86.6	200	0.423		
DRO >C10-C28	57.7	10.0	06/07/2014	ND	169	84.7	200	3.40		

Surrogate: 1-Chlorooctane 84.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.7 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY  
HACK CONDER  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received:	06/03/2014	Sampling Date:	06/03/2014
Reported:	06/10/2014	Sampling Type:	Soil
Project Name:	MCA STATION #2	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

### Sample ID: SOUTH WALL CENTER (H401690-02)

BTX 8021B			mg/kg					Analyzed By: MS/		S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.050	0.050	06/06/2014	ND	2.00	99.9	2.00	2.96			
Toluene*	<0.050	0.050	06/06/2014	ND	2.15	107	2.00	3.33			
Ethylbenzene*	0.185	0.050	06/06/2014	ND	1.92	96.2	2.00	3.37			
Total Xylenes*	0.286	0.150	06/06/2014	ND	5.97	99.5	6.00	3.41			
Total BTX	0.471	0.300	06/06/2014	ND							

Surrogate: 4-Bromofluorobenzene (PID) 152 % 89.4-126

Chloride, SM4500CI-B			mg/kg					Analyzed By: AP			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	224	16.0	06/05/2014	ND	416	104	400	3.92			

TPH 8015M			mg/kg					Analyzed By: MS		S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	60.2	50.0	06/07/2014	ND	173	86.6	200	0.423			
DRO >C10-C28	5270	50.0	06/07/2014	ND	169	84.7	200	3.40			

Surrogate: 1-Chlorooctane 82.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 190 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
HACK CONDER  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received:	06/03/2014	Sampling Date:	06/03/2014
Reported:	06/10/2014	Sampling Type:	Soil
Project Name:	MCA STATION #2	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: EAST WALL CENTER (H401690-03)**

BTX 8021B		mg/kg		Analyzed By: MS/				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2014	ND	2.00	99.9	2.00	2.96	
Toluene*	<0.050	0.050	06/06/2014	ND	2.15	107	2.00	3.33	
Ethylbenzene*	<b>0.454</b>	0.050	06/06/2014	ND	1.92	96.2	2.00	3.37	
<b>Total Xylenes*</b>	<b>1.14</b>	0.150	06/06/2014	ND	5.97	99.5	6.00	3.41	
<b>Total BTX</b>	<b>1.60</b>	0.300	06/06/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 156 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>400</b>	16.0	06/05/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>75.8</b>	50.0	06/07/2014	ND	173	86.6	200	0.423	
<b>DRO &gt;C10-C28</b>	<b>3590</b>	50.0	06/07/2014	ND	169	84.7	200	3.40	

Surrogate: 1-Chlorooctane 81.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 141 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
HACK CONDER  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received: 06/03/2014  
Reported: 06/10/2014  
Project Name: MCA STATION #2  
Project Number: NOT GIVEN  
Project Location: NOT GIVEN

Sampling Date: 06/03/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Celey D. Keene

**Sample ID: WEST WALL CENTER (H401690-04)**

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	06/06/2014	ND	2.00	99.9	2.00	2.96	
Toluene*	<0.050	0.050	06/06/2014	ND	2.15	107	2.00	3.33	
Ethylbenzene*	<0.050	0.050	06/06/2014	ND	1.92	96.2	2.00	3.37	
Total Xylenes*	<0.150	0.150	06/06/2014	ND	5.97	99.5	6.00	3.41	
Total BTEX	<0.300	0.300	06/06/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	06/05/2014	ND	416	104	400	3.92	

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	06/07/2014	ND	173	86.6	200	0.423	
DRO >C10-C28	37.5	10.0	06/07/2014	ND	169	84.7	200	3.40	

Surrogate: 1-Chlorooctane 75.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 84.1 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
HACK CONDER  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received:	06/03/2014	Sampling Date:	06/03/2014
Reported:	06/10/2014	Sampling Type:	Soil
Project Name:	MCA STATION #2	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: BOTTOM SAMPLE @ 4' (H401690-05)**

BTX 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	06/06/2014	ND	2.00	99.9	2.00	2.96	
Toluene*	<0.050	0.050	06/06/2014	ND	2.15	107	2.00	3.33	
Ethylbenzene*	<0.050	0.050	06/06/2014	ND	1.92	96.2	2.00	3.37	
Total Xylenes*	<0.150	0.150	06/06/2014	ND	5.97	99.5	6.00	3.41	
Total BTX	<0.300	0.300	06/06/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/05/2014	ND	416	104	400	3.92	

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	06/07/2014	ND	173	86.6	200	0.423	
DRO >C10-C28	94.2	10.0	06/07/2014	ND	169	84.7	200	3.40	

Surrogate: 1-Chlorooctane 80.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.5 % 63.6-154

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\*=Accredited Analyte

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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.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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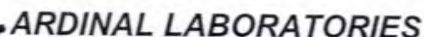
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Celey D. Keene, Lab Director/Quality Manager


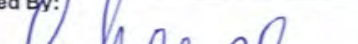
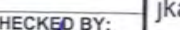




### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 8 of 8

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Relinquished By: 		Date: 6-3-2014		Received By: 		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:	
Time: 1:07p		Time:		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #:		REMARKS:	
Relinquished By:		Date:		Received By:		email: hconder@riceswd.com; lflores@rice-ecs.com; lweinheimer@rice-ecs.com; knorman@rice-ecs.com; jkamplain@rice-ecs.com; sedwards@rice-ecs.com; cursanic@rice-ecs.com Environmental Tech: cflores @rice-ecs.com	
Time:		Time:		Time:			
Delivered By: (Circle One)		Sample Condition		CHECKED BY: (Initials)			
Sampler - UPS - Bus - Other: 5°C		Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No					

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#54

October 02, 2014

KYLE NORMAN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: COP MCA BATTERY #2

Enclosed are the results of analyses for samples received by the laboratory on 10/01/14 15:40.

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](http://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:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
KYLE NORMAN  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received: 10/01/2014  
Reported: 10/02/2014  
Project Name: COP MCA BATTERY #2  
Project Number: NOT GIVEN  
Project Location: NOT GIVEN

Sampling Date: 10/01/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Amanda Ponce

**Sample ID: EAST WALL CENTER (H402997-01)**

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	10/02/2014	ND	1.66	82.9	2.00	10.3	
<b>Toluene*</b>	<b>0.065</b>	0.050	10/02/2014	ND	1.56	77.8	2.00	10.6	
Ethylbenzene*	<0.050	0.050	10/02/2014	ND	1.47	73.6	2.00	11.1	
Total Xylenes*	<0.150	0.150	10/02/2014	ND	4.33	72.1	6.00	12.0	
Total BTEX	<0.300	0.300	10/02/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	10/02/2014	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	10/02/2014	ND	176	87.8	200	8.19	
DRO >C10-C28	<10.0	10.0	10/02/2014	ND	183	91.5	200	7.74	

Surrogate: 1-Chlorooctane 100 % 47.2-157

Surrogate: 1-Chlorooctadecane 99.8 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 RICE ENVIRONMENTAL CONSULTING & SAFETY  
 KYLE NORMAN  
 419 W. CAIN  
 HOBBS NM, 88240  
 Fax To: (575) 397-1471

 Received: 10/01/2014  
 Reported: 10/02/2014  
 Project Name: COP MCA BATTERY #2  
 Project Number: NOT GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 10/01/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Amanda Ponce

**Sample ID: WEST WALL CENTER (H402997-02)**

BTX 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	10/02/2014	ND	1.66	82.9	2.00	10.3		
Toluene*	<0.050	0.050	10/02/2014	ND	1.56	77.8	2.00	10.6		
Ethylbenzene*	<0.050	0.050	10/02/2014	ND	1.47	73.6	2.00	11.1		
Total Xylenes*	<0.150	0.150	10/02/2014	ND	4.33	72.1	6.00	12.0		
Total BTEX	<0.300	0.300	10/02/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/02/2014	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	10/02/2014	ND	176	87.8	200	8.19	
DRO >C10-C28	<10.0	10.0	10/02/2014	ND	183	91.5	200	7.74	

Surrogate: 1-Chlorooctane 93.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 92.7 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
KYLE NORMAN  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received: 10/01/2014  
Reported: 10/02/2014  
Project Name: COP MCA BATTERY #2  
Project Number: NOT GIVEN  
Project Location: NOT GIVEN

Sampling Date: 10/01/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Amanda Ponce

**Sample ID: SOUTH WALL CENTER (H402997-03)**

BTX 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	10/02/2014	ND	1.66	82.9	2.00	10.3		
Toluene*	<0.050	0.050	10/02/2014	ND	1.56	77.8	2.00	10.6		
Ethylbenzene*	<0.050	0.050	10/02/2014	ND	1.47	73.6	2.00	11.1		
Total Xylenes*	<0.150	0.150	10/02/2014	ND	4.33	72.1	6.00	12.0		
Total BTEX	<0.300	0.300	10/02/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/02/2014	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	10/02/2014	ND	176	87.8	200	8.19	
DRO >C10-C28	442	10.0	10/02/2014	ND	183	91.5	200	7.74	

Surrogate: 1-Chlorooctane 94.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 110 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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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Cardinal Laboratories

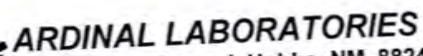
\*=Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager



**RDINAL LABORATORIES**  
101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603  
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in 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.

Date: \_\_\_\_\_ Received By: \_\_\_\_\_ Phone Result: \_\_\_\_\_  
 Fax Result: \_\_\_\_\_

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy shall be deemed waived unless made in writing and received by Cardinal within 30 days of the date of the analysis. 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 of the date of the analysis. 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.

Relinquished By: 	Date: 10-1-14	Received By: 	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Time: 3:40	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)		Sample Condition	REMARKS:	
Sampler - UPS - Bus - Other:	52°C #54	Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	email results: hconder@rice-ecs.com; knorman@rice-ecs.com; jkamplain@rice-ecs.com; regans@rice-ecs.com; lflores@rice-ecs.com; lweinheimer@rice-ecs.com; cursanic@rice-ecs.com environmental tech: agroves@rice-ecs.com	
		CHECKED BY: (Initials) 		

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

October 13, 2014

KYLE NORMAN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: MCA STATION #2

Enclosed are the results of analyses for samples received by the laboratory on 10/08/14 16:03.

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](http://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:**

RICE ENVIRONMENTAL CONSULTING & SAFETY  
KYLE NORMAN  
419 W. CAIN  
HOBBS NM, 88240  
Fax To: (575) 397-1471

Received: 10/08/2014  
Reported: 10/13/2014  
Project Name: MCA STATION #2  
Project Number: NOT GIVEN  
Project Location: NOT GIVEN

Sampling Date: 10/07/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Kathy Perez

**Sample ID: IMPORTED TOP SOIL (H403080-01)****Chloride, SM4500Cl-B****mg/kg****Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/09/2014	ND	416	104	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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-	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

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603  
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

\$54

# Appendix D

## Photo Documentation

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967



# ConocoPhillips MCA Battery 2

Unit Letter D, Section 28, T17S, R32E



Initial release area, facing southwest

2/5/14



Initial release area, facing south

2/5/14



Initial release area, facing east

2/5/14



Initial release area, facing northwest

2/5/14





Sampling release area, facing northwest 2/21/14



Hydro-excavating north release area, facing northwest 4/22/14



Excavating south area to 4 ft, facing northwest 9/11/14



Initial release in south excavation caused by struck fiberglass line, facing south 9/11/14





Hydro-excavating wet material from north excavation, facing east  
10/1/14



Continue south excavation to 4 ft, facing southwest  
10/3/14



Exporting soil, facing south  
10/3/14



South excavation completed, facing southwest 10/7/14





Installing liner in south excavation, facing northwest  
10/7/14



Liner installation in south excavation completed, facing southwest  
10/7/14



Backfilling south excavation, facing southwest 10/8/14



Backfilling north excavation, facing northeast 10/13/14





Importing soil, facing west

10/13/14



North excavation backfilled, facing southeast 10/20/14



South excavation backfilled, facing northeast 10/20/14



South excavation backfilled, facing north 10/20/14



Tilling soil and seeding site, facing northeast 3/3/15



Tilling soil and seeding site, facing southeast 3/3/15

# Appendix E

Final C-141s

**RICE Environmental Consulting and Safety (RECS)**  
P.O. Box 2948 Hobbs, NM 88241  
Phone 575.393.2967



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	ConocoPhillips	Contact	
Address	29 Vacuum Complex Lane	Telephone No.	
Facility Name	MCA battery 2	Facility Type	Water Transfer Line

Surface Owner	BLM	Mineral Owner	BLM	API No.	3002500733
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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
D	28	17S	32E	660	North	660	West	Lea

Latitude 32.8110313626827 Longitude -103.777900360354

#### NATURE OF RELEASE

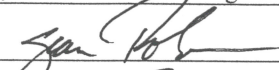
Type of Release	Spill	Volume of Release	573 BBLs	Volume Recovered	440 BBLs
Source of Release	4 inch fiberglass water transfer line	Date and Hour of Occurrence	12/19/13 5:13 pm	Date and Hour of Discovery	SAME
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Jim Amos/Geoffrey Leking		
By Whom?	David May	Date and Hour	12/20/13 9:45 am		
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.\* Release originated from a 4 inch fiberglass trunk line that transfers produced water from several facilities to MCA Injection Station #2. The area MSO spotted the release while making final daily surveillance rounds. The affected line was identified, isolated, and locked out by the area MSO.

Describe Area Affected and Cleanup Action Taken.\* The release affected 8,951 square feet of lease road and pasture land. Vacuum trucks were called to the site and recovered 440 barrels of produced water. RECS personnel were on site beginning on February 5<sup>th</sup>, 2014 to assess the release. The site had already been scraped down 6 inches to remove the wet material. Five points within the release area were sampled at the surface of the scrape and with depth. Representative samples were taken to a commercial laboratory for analyses. On April 10<sup>th</sup>, 2014, a CAP was submitted to NMOCD for approval, and NMOCD denied the CAP the same day. NMOCD required a sample to be taken in the trench area, and NMOCD would then respond with a path forward. On June 3<sup>rd</sup>, 2014, the trench area was sampled. A sample from each wall and from the bottom of the north trench excavation was taken to a commercial laboratory for analysis. RECS personnel met with NMOCD on August 8<sup>th</sup>, 2014. Per this discussion, a path forward was sent to NMOCD and BLM. NMOCD approved the path forward on August 8<sup>th</sup>, 2014, and BLM approved the path forward on August 11<sup>th</sup>, 2014. Corrective actions began at the site on September 11<sup>th</sup>, 2014. As the area around Point 2 and Point 5 was excavated to 4 ft bgs, a 4 inch fiberglass line was hit causing the 1RP-3320 release. Given that the new release was encompassed in the excavation being conducted for the prior release, once the wet material was removed, the excavation for liner installation continued. When the entire release area to the south was excavated to a depth of 4 ft bgs, a 20-mil reinforced poly liner was installed and properly seated into the base of the excavation. The north trenched excavation had its east, west and south walls expanded. A request to backfill the site was sent to NMOCD and BLM on October 6<sup>th</sup>, 2014, and both agencies approved the request that same day. Approximately 800 cubic yards of contaminated soil was taken to a NMOCD approved facility for disposal. A total of 860 cubic yards of top soil was imported to the site to serve as backfill. A sample of the imported top soil was taken to a commercial laboratory and returned a chloride result of non-detect. Both the north and south excavation were backfilled with the imported top soil and contoured to the surrounding location. The disturbed areas in the pasture will be seeded with a blend of native vegetation during the 2015 rainy season that begins in April or May.

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: 	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: <u>Sean Robinson</u>	Approved by Environmental Specialist:		
Title: <u>OPERATIONS SUPERVISOR</u>	Approval Date:	Expiration Date:	
E-mail Address: <u>SR@CP.COM</u>	Conditions of Approval:		Attached <input type="checkbox"/>
Date: <u>2-27-15</u>	Phone: <u>575 391 3147</u>		

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	ConocoPhillips	Contact	
Address	29 Vacuum Complex Lane	Telephone No.	
Facility Name	MCA Unit Station No. 2	Facility Type	Water Injection Station
Surface Owner	NMOCD	Mineral Owner	NMOCD
		API No.	

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	28	17S	35E					Lea

Latitude N32°48.742' Longitude W103°46.465'

### NATURE OF RELEASE

Type of Release	Spill	Volume of Release	41.06 BBLS	Volume Recovered	40 BBLS
Source of Release	Water Transfer Line	Date and Hour of Occurrence	9/11/14 2:45 pm	Date and Hour of Discovery	9/11/14 5:00 am
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Tomas Oberding		
By Whom?	Spencer Cluff	Date and Hour	09/12/2014 7:10 am		
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.\*

MST at the Maljamar MCA lease, a release of produced water occurred. The release originated from a 4" fiberglass water transfer line that was damaged during remediation activities. MSOs immediately isolated line, stopping the release.

Describe Area Affected and Cleanup Action Taken.\*

Corrective actions began at the site on September 11<sup>th</sup>, 2014 for the 1RP-3220 release. During excavation, a 4 inch fiberglass line was hit causing the 1RP-3220 release. A vacuum truck was called to the site to remove the fluid from the excavation. Given that the new release was encompassed in the excavation being conducted for the prior release, once the wet material was removed, the excavation for liner installation continued. When the entire release area was excavated to a depth of 4 ft bgs, a 20-mil reinforced poly liner was installed and properly seated into the base of the excavation. A request to backfill the site was sent to NMOCD and BLM on October 6<sup>th</sup>, 2014, and both agencies approved the request that same day. Approximately 800 cubic yards of contaminated soil was taken to a NMOCD approved facility for disposal. A total of 860 cubic yards of top soil was imported to the site to serve as backfill. A sample of the imported top soil was taken to a commercial laboratory and returned a chloride result of non-detect. The excavation was backfilled with the imported top soil and contoured to the surrounding location. The disturbed areas in the pasture will be seeded with a blend of native vegetation during the 2015 rainy season that begins in April or May.

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: <i>Sean Robinson</i>		OIL CONSERVATION DIVISION	
Printed Name: <i>SEAN ROBINSON</i>		Approved by Environmental Specialist:	
Title: <i>OPERATIONS SUPERVISOR</i>		Approval Date:	Expiration Date:
E-mail Address: <i>strob@cop.com</i>		Conditions of Approval:	
Date: <i>2-27-15</i> Phone: <i>505-391-4440</i>		Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary