



**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

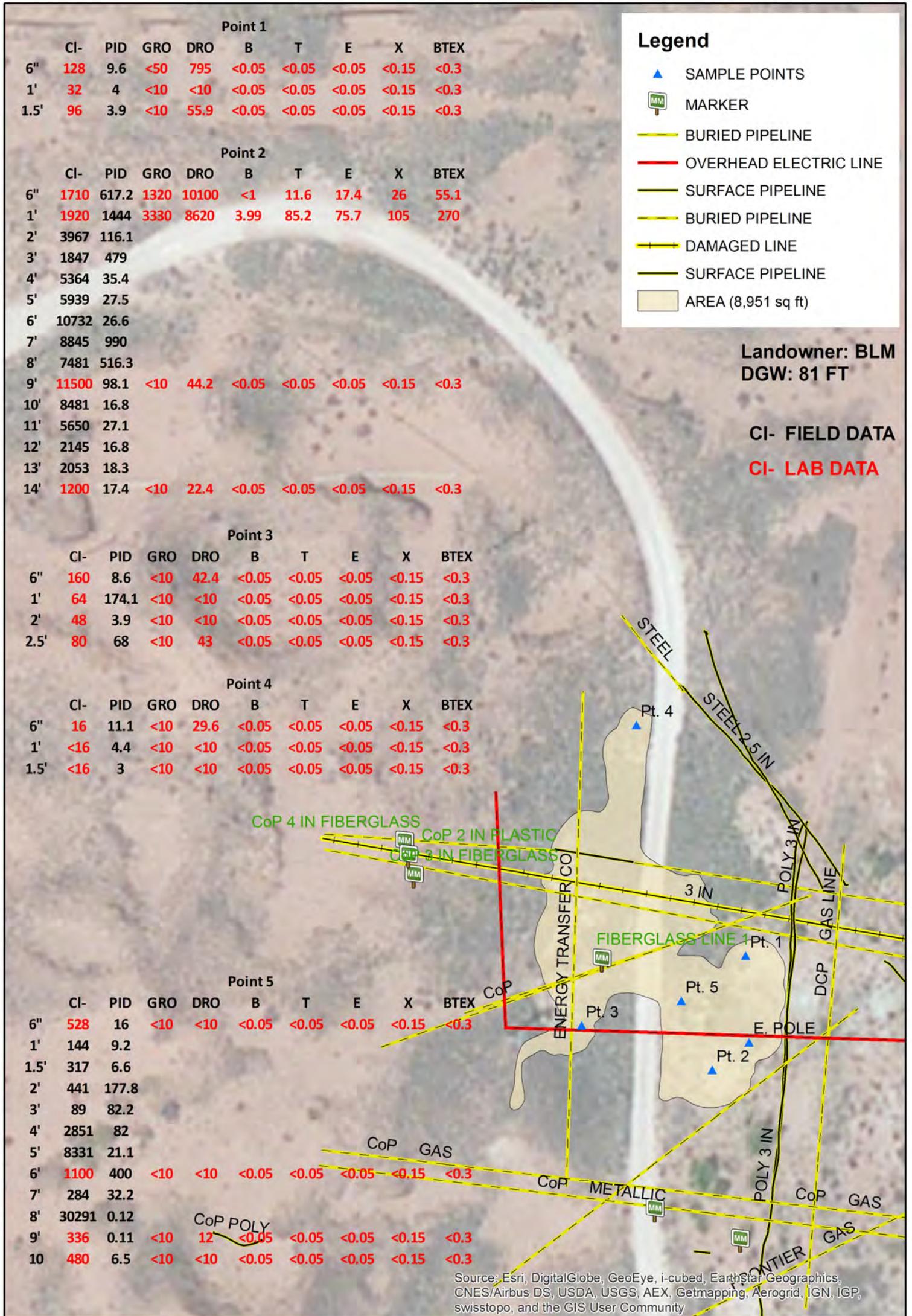
Attachments:

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



### Point 1

	Cl-	PID	GRO	DRO	B	T	E	X	BTEX
6"	128	9.6	<50	795	<0.05	<0.05	<0.05	<0.15	<0.3
1'	32	4	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
1.5'	96	3.9	<10	55.9	<0.05	<0.05	<0.05	<0.15	<0.3

### Point 2

	Cl-	PID	GRO	DRO	B	T	E	X	BTEX
6"	1710	617.2	1320	10100	<1	11.6	17.4	26	55.1
1'	1920	1444	3330	8620	3.99	85.2	75.7	105	270
2'	3967	116.1							
3'	1847	479							
4'	5364	35.4							
5'	5939	27.5							
6'	10732	26.6							
7'	8845	990							
8'	7481	516.3							
9'	11500	98.1	<10	44.2	<0.05	<0.05	<0.05	<0.15	<0.3
10'	8481	16.8							
11'	5650	27.1							
12'	2145	16.8							
13'	2053	18.3							
14'	1200	17.4	<10	22.4	<0.05	<0.05	<0.05	<0.15	<0.3

### Point 3

	Cl-	PID	GRO	DRO	B	T	E	X	BTEX
6"	160	8.6	<10	42.4	<0.05	<0.05	<0.05	<0.15	<0.3
1'	64	174.1	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
2'	48	3.9	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
2.5'	80	68	<10	43	<0.05	<0.05	<0.05	<0.15	<0.3

### Point 4

	Cl-	PID	GRO	DRO	B	T	E	X	BTEX
6"	16	11.1	<10	29.6	<0.05	<0.05	<0.05	<0.15	<0.3
1'	<16	4.4	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
1.5'	<16	3	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3

### Point 5

	Cl-	PID	GRO	DRO	B	T	E	X	BTEX
6"	528	16	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
1'	144	9.2							
1.5'	317	6.6							
2'	441	177.8							
3'	89	82.2							
4'	2851	82							
5'	8331	21.1							
6'	1100	400	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
7'	284	32.2							
8'	30291	0.12							
9'	336	0.11	<10	12	<0.05	<0.05	<0.05	<0.15	<0.3
10'	480	6.5	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3

### Legend

- ▲ SAMPLE POINTS
- MARKER
- BURIED PIPELINE
- OVERHEAD ELECTRIC LINE
- SURFACE PIPELINE
- BURIED PIPELINE
- DAMAGED LINE
- SURFACE PIPELINE
- AREA (8,951 sq ft)

Landowner: BLM  
DGW: 81 FT

Cl- FIELD DATA  
Cl- LAB DATA

Source: Esri, DigitalGlobe, GeoEye, i-cubed, EarthStar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



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

**Figure 1**

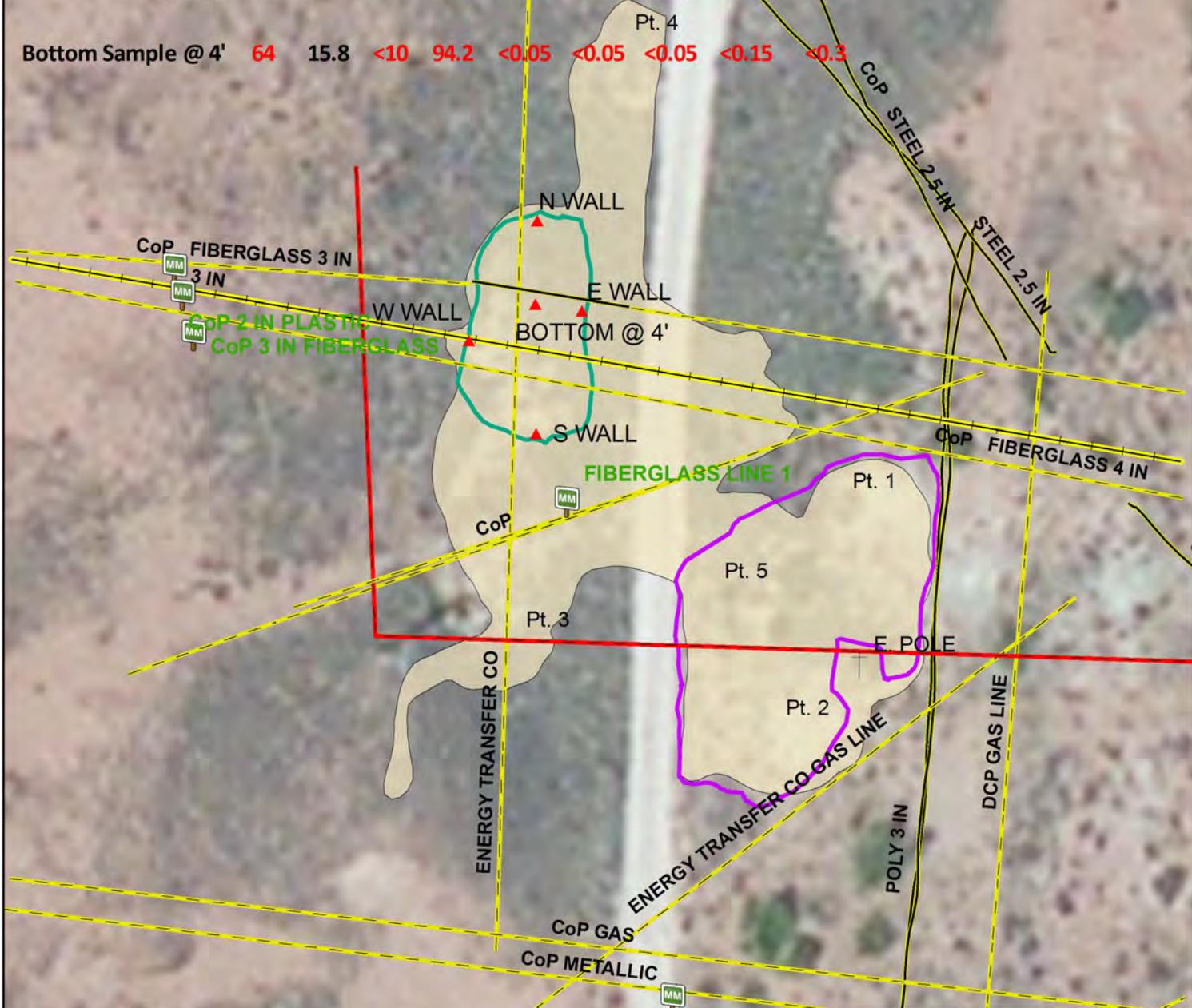
0 25 50  
Feet

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

# Excavation Data

## Final Sampling Data

	CI-	PID	GRO	DRO	B	T	E	X	BTEX
East Wall	112	0.4	<10	<10	<0.05	0.065	<0.05	<0.15	<0.3
West Wall	48	1.4	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
South Wall	16	1	<10	442	<0.05	<0.05	<0.05	<0.15	<0.3
North Wall	112	17.3	<10	57.7	<0.05	<0.05	<0.05	<0.15	<0.3
Bottom Sample @ 4'	64	15.8	<10	94.2	<0.05	<0.05	<0.05	<0.15	<0.3



### Legend

- ▲ FINAL SAMPLE POINTS
- ⋈ ELECTRIC POLE
- MM MARKER
- BURIED PIPELINE
- DAMAGED LINE
- OVERHEAD ELECTRIC LINE
- SURFACE PIPELINE
- SOUTH EXCAVATION @ 4 FT
- NORTH EXCAVATION @ 4 FT
- STAIN (8,951 sq ft)

Landowner: BLM  
DGW: 81 FT

CI- FIELD DATA CI- LAB DATA

Source: Esri, DigitalGlobe, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, the GeoEye Community

## 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

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.

**Release Notification and Corrective Action**

**OPERATOR**  Initial Report  Final Report

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

Surface Owner: <b>BLM</b>	Mineral Owner <b>BLM</b>	API No. <b>3002500733</b>
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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**

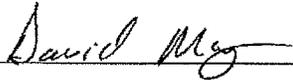
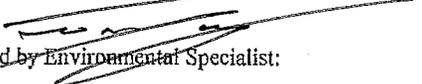
Type of Release: <b>Spill</b>	Volume of Release: <b>573 BBLs</b>	Volume Recovered: <b>440 BBLs</b>
Source of Release: <b>4 inch fiberglass water transfer line</b>	Date and Hour of Occurrence <b>12/19/13 5:13 pm</b>	Date and Hour of Discovery <b>SAME</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Jim Amos/Geoffrey Leking</b>	
By Whom? <b>David May</b>	Date and Hour: <b>12/20/13 9:45 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.\*  
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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: <b>David May</b>	Approved by Environmental Specialist: 	
Title: <b>LEAD HSE</b>	Approval Date: <b>6-8-19</b>	Expiration Date: <b>10-70-14</b>
E-mail Address: <b>david.d.may@conocophillips.com</b>	Conditions of Approval: <i>Site Sample report Documents &amp; analysis done as per NMOCD guidance</i>	Attached <input type="checkbox"/> <b>IRP-3220</b>
Date: <b>12/20/2013</b>	Phone: <b>575-391-3106</b>	<i>Submit final C-141 to</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.  
**RECEIVED**

**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.	

**LOCATION OF RELEASE**

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

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.\*

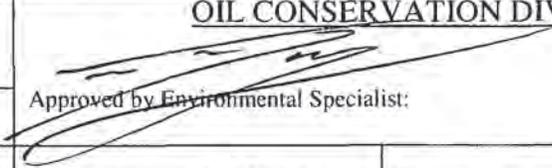
Describe Cause of Problem and Remedial Action Taken.\*

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.

		<b>OIL CONSERVATION DIVISION</b>	
Signature: <i>Spencer A. Cluff</i>	 Approved by Environmental Specialist:		
Printed Name: <b>Spencer Cluff</b>			
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 guides. Submit final C-141 by 11-15-14.</i>		Attached <input type="checkbox"/>
Date: <b>09/12/2014</b>	Phone: <b>575-391-3143</b>	<b>11P-3320</b>	

\* Attach Additional Sheets If Necessary

SEP 16 2014

*Ogrod 99165  
N701425 853993  
P701425 854158  
T70 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

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	
<b>Chloride</b>	<b>128</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	
GRO C6-C10	<50.0	50.0	02/25/2014	ND	209	105	200	0.228		
<b>DRO &gt;C10-C28</b>	<b>795</b>	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

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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:	02/20/2014
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)**

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 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	
<b>Chloride</b>	<b>32.0</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	
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

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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. 1 1.5' (H400564-03)**

<b>BTEX 8260B</b>		<b>mg/kg</b>		<b>Analyzed By: MS</b>						
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 94.8 % 61.3-142

Surrogate: Toluene-d8 103 % 71.3-129

Surrogate: 4-Bromofluorobenzene 101 % 65.7-141

<b>Chloride, SM4500Cl-B</b>		<b>mg/kg</b>		<b>Analyzed By: AP</b>						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>96.0</b>	16.0	02/26/2014	ND	400	100	400	0.00		

<b>TPH 8015M</b>		<b>mg/kg</b>		<b>Analyzed By: ms</b>						
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		
<b>DRO &gt;C10-C28</b>	<b>55.9</b>	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

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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 6" (H400564-04)**

BTEX 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		
<b>Toluene*</b>	<b>11.6</b>	1.00	02/26/2014	ND	2.18	109	2.00	2.03		
<b>Ethylbenzene*</b>	<b>17.4</b>	1.00	02/26/2014	ND	2.07	103	2.00	1.54		
<b>Total Xylenes*</b>	<b>26.0</b>	3.00	02/26/2014	ND	6.33	105	6.00	2.34		
<b>Total BTEX</b>	<b>55.1</b>	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	
<b>Chloride</b>	<b>1710</b>	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		
<b>GRO C6-C10</b>	<b>1320</b>	100	02/25/2014	ND	209	105	200	0.228			
<b>DRO &gt;C10-C28</b>	<b>10100</b>	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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 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 1' (H400564-05)**

BTEX 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 BTEX</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							S-06
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)**

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 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	
<b>Chloride</b>	<b>11500</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	
GRO C6-C10	<10.0	10.0	02/25/2014	ND	209	105	200	0.228		
<b>DRO &gt;C10-C28</b>	<b>44.2</b>	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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 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 14' (H400564-07)**

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 94.8 % 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	
<b>Chloride</b>	<b>1200</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	
GRO C6-C10	<10.0	10.0	02/25/2014	ND	209	105	200	0.228		
<b>DRO &gt;C10-C28</b>	<b>22.4</b>	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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 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 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	
<b>Chloride</b>	<b>160</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	
GRO C6-C10	<10.0	10.0	02/26/2014	ND	209	105	200	0.228		
<b>DRO &gt;C10-C28</b>	<b>42.4</b>	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  
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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. 3 1' (H400564-09)**

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 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	
<b>Chloride</b>	<b>64.0</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	
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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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. 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	
<b>Chloride</b>	<b>48.0</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	
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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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. 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	
<b>Chloride</b>	<b>80.0</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	
GRO C6-C10	<10.0	10.0	02/26/2014	ND	209	105	200	0.228		
<b>DRO &gt;C10-C28</b>	<b>43.0</b>	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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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. 4 6" (H400564-12)**

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 98.5 % 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	
<b>Chloride</b>	<b>16.0</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	
GRO C6-C10	<10.0	10.0	02/26/2014	ND	209	105	200	0.228		
<b>DRO &gt;C10-C28</b>	<b>29.6</b>	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

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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' (H400564-13)**

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 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

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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)**

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 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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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	
<b>Chloride</b>	<b>528</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	
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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 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	
<b>Chloride</b>	<b>1100</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	
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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 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	
<b>Chloride</b>	<b>336</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	
GRO C6-C10	<10.0	10.0	02/26/2014	ND	209	105	200	0.228		
<b>DRO &gt;C10-C28</b>	<b>12.0</b>	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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 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)**

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 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	
<b>Chloride</b>	<b>480</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	
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

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**

- 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



---

Celey D. Keene, Lab Director/Quality Manager





# 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,

A handwritten signature in cursive script that reads "Celey D. Keene".

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)**

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
<b>Chloride</b>	<b>112</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
GRO C6-C10	<10.0	10.0	06/07/2014	ND	173	86.6	200	0.423	
<b>DRO &gt;C10-C28</b>	<b>57.7</b>	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

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  
 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)**

BTEX 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	
<b>Ethylbenzene*</b>	<b>0.185</b>	0.050	06/06/2014	ND	1.92	96.2	2.00	3.37	
<b>Total Xylenes*</b>	<b>0.286</b>	0.150	06/06/2014	ND	5.97	99.5	6.00	3.41	
<b>Total BTEX</b>	<b>0.471</b>	0.300	06/06/2014	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>224</b>	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
<b>GRO C6-C10</b>	<b>60.2</b>	50.0	06/07/2014	ND	173	86.6	200	0.423	
<b>DRO &gt;C10-C28</b>	<b>5270</b>	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

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  
 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)**

BTEX 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	
<b>Ethylbenzene*</b>	<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 BTEX</b>	<b>1.60</b>	0.300	06/06/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 156 % 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
<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

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: 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, 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>544</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
GRO C6-C10	<10.0	10.0	06/07/2014	ND	173	86.6	200	0.423	
<b>DRO &gt;C10-C28</b>	<b>37.5</b>	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

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

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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, 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>64.0</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	
GRO C6-C10	<10.0	10.0	06/07/2014	ND	173	86.6	200	0.423		
<b>DRO &gt;C10-C28</b>	<b>94.2</b>	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

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

- 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



---

Celey D. Keene, Lab Director/Quality Manager



# ARDINAL 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

Company Name: <b>RECS</b>	<b>BILL TO</b>	<b>ANALYSIS REQUEST</b>	
Project Manager: <b>Laura Flores, Kyle Norman</b>	P.O. #:	Chlorides TPH 8015 M BTEX Texas TPH Complete Cations/Anions TDS	
Address:	Company:		
City: <b>Hobbs</b> State: <b>NM</b> Zip: <b>88240</b>	Attn:		
Phone #: Fax #:	Address:		
Project #: Project Owner:	City:		
Project Name: <b>Conoco Phillips</b>	State: Zip:		
Project Location: <b>MCA station 2</b>	Phone #:		
Sampler Name: <b>Chris Flores</b>	Fax #:		

FOR LAB USE ONLY		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		DATE	TIME
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :			
<b>H401690-</b>															
<b>01</b>	<b>North Wall Center</b>	<b>G</b>	<b>1</b>			<input checked="" type="checkbox"/>							<b>6-3-2014</b>	<b>11:20 AM</b>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
<b>02</b>	<b>South wall center</b>	<b>G</b>	<b>1</b>			<input checked="" type="checkbox"/>								<b>11:25 AM</b>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
<b>03</b>	<b>East wall center</b>	<b>G</b>	<b>1</b>			<input checked="" type="checkbox"/>								<b>11:30 AM</b>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
<b>04</b>	<b>West wall center</b>	<b>G</b>	<b>1</b>			<input checked="" type="checkbox"/>								<b>11:35 AM</b>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
<b>05</b>	<b>Bottom Sample # 4'</b>	<b>G</b>	<b>1</b>			<input checked="" type="checkbox"/>								<b>11:40 AM</b>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>

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: <b>6-3-2014</b> Time: <b>1:07p</b>	Received By:	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: (Initials) <b>CFK</b>	REMARKS: 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: <b>cflores @rice-ecs.com</b>

† 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,

A handwritten signature in black ink that reads "Celey D. Keene".

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	Sampling Date:	10/01/2014
Reported:	10/02/2014	Sampling Type:	Soil
Project Name:	COP MCA BATTERY #2	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Amanda Ponce
Project Location:	NOT GIVEN		

**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
<b>Chloride</b>	<b>112</b>	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

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:	10/01/2014	Sampling Date:	10/01/2014
Reported:	10/02/2014	Sampling Type:	Soil
Project Name:	COP MCA BATTERY #2	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Amanda Ponce
Project Location:	NOT GIVEN		

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

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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

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	Sampling Date:	10/01/2014
Reported:	10/02/2014	Sampling Type:	Soil
Project Name:	COP MCA BATTERY #2	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Amanda Ponce
Project Location:	NOT GIVEN		

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

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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, 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>16.0</b>	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		
<b>DRO &gt;C10-C28</b>	<b>442</b>	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

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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

*X Rush*

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



## ARDINAL 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

Company Name: RECS				BILL TO				ANALYSIS REQUEST							
Project Manager: Laura Flores / <i>Kyle Norman</i>				P.O. #:				Chlorides TPH 8015 M BTEX Texas TPH Complete Cations/Anions TDS							
Address: 419 W Cain				Company:											
City: Hobbs State: NM Zip: 88240				Attn:											
Phone #:				Address:											
Project #:				City:											
Project Name: <i>CoPMCA Bakery #2</i>				State: Zip:											
Project Location:				Phone #:											
Sampler Name: Amber Groves				Fax #:											
FOR LAB USE ONLY				MATRIX								PRESERV.			
Lab I.D.				Sample I.D.								DATE			
								TIME							
<i>#402997</i>															
<i>1 Eastwall Center</i>				<i>1</i>				<i>10-1-14 10:10</i>							
<i>2 Westwall Center</i>				<i>1</i>				<i>10-1-14 10:10</i>							
<i>3 Northwall Center</i>				<i>1</i>				<i>10-1-14 10:20</i>							
<i>South</i>															

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: <i>[Signature]</i>	Date: <i>10-1-14</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Time: <i>3:40</i>	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	Date:	Sample Condition	REMARKS:	
Sampler - UPS - Bus - Other:	Time:	Cool Intact	email results:	
<i>5-2 C #54</i>		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	hconder@rice-ecs.com; knorman@rice-ecs.com;	
		<input type="checkbox"/> No <input type="checkbox"/> No	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	
			<i>Rush</i>	

† 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,

A handwritten signature in black ink that reads "Celey D. Keene".

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	Sampling Date:	10/07/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	MCA STATION #2	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

**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

**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



---

Celey D. Keene, Lab Director/Quality Manager



# CARDINAL 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

Company Name: RECS		<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																					
Project Manager: Laura Flores / Kyle Norman		P.O. #:				<table border="1"> <tr><td>Chlorides</td></tr> <tr><td>TPH 8015 M</td></tr> <tr><td>BTEX</td></tr> <tr><td>Texas TPH</td></tr> <tr><td>Complete Cations/Anions</td></tr> <tr><td>TDS</td></tr> <tr><td></td></tr> <tr><td></td></tr> <tr><td></td></tr> <tr><td></td></tr> <tr><td></td></tr> <tr><td></td></tr> </table>										Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions	TDS						
Chlorides																											
TPH 8015 M																											
BTEX																											
Texas TPH																											
Complete Cations/Anions																											
TDS																											
Address: 419 W Cain		Company:																									
City: Hobbs State: NM Zip: 88240		Attn:																									
Phone #: Fax #:		Address:																									
Project #: Project Owner:		City:																									
Project Name: Cenoco Phillips		State: Zip:																									
Project Location: MCA Station 2		Phone #:																									
Sampler Name: Chris Flores		Fax #:																									
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING																		
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME													
H403080	Imported Top Soil	C	1			✓					✓		10-7-2014	3:00pm	X												

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: 10-8-2014	Received By:	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
	Time: 7:03		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		email results: heonder@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: cflores @rice-ecs.com	
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other: 3.8c	Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	(Initials) KF		

† 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

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.

**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	

**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**

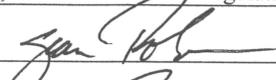
Type of Release Spill	Volume of Release 573 BBLs	Volume Recovered 440 BBLs
Source of Release 4 inch fiberglass water transfer line	Date and Hour of Occurrence 12/19/13 5:13 pm	Date and Hour of Discovery SAME
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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>SROBIN@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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: SEAN ROBINSON	Approved by Environmental Specialist:	
Title: OPERATIONS SUPERVISOR	Approval Date:	Expiration Date:
E-mail Address: stabin@cop.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 2-27-15	Phone: 575-391-4477	

\* Attach Additional Sheets If Necessary