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By OCD; Dr. Oberding at 12:30 pm, Apr 06, 2015

CONOCOPHILLIPS

P.O. Box 2197
Houston, TX 77252-2197
Phone 281.293.1000

APPROVED

By OCD; Dr. Oberding at 12:30 pm, Apr 06, 2015

MCA Transfer Line

(1RP-3373)

Termination Request

Release Date: December 13th, 2013

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

April 1, 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 Transfer Line (1RP-3373)
UL/C sec. 28 T17S R32E**

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 3.1 miles southwest of Maljamar, New Mexico. The initial C-141 states that the release is situated in UL/C; however, GPS mapping shows the site is situated in UL/B sec. 28 T17S R32E. NM OSE and BLM records indicate that groundwater will likely be encountered at a depth of approximately 70 +/- feet.

On December 13th, 2013, a buried 8 inch fiberglass line was struck by a track-hoe while installing a new line. The line released 25 barrels of produced water, none of which was recovered. The line was identified and shut in. The release covered 14,704 square feet of open trench, caliche road and pasture land. NMOCD and BLM were notified of the release on December 13th, 2013, and an initial C-141 was sent to both parties. NMOCD approved the initial C-141 on October 10th, 2014 (Appendix A).

RECS personnel were on site to visually assess the release on December 20th, 2013. The release was mapped and photographed. Based on the visual assessment, a hydro-vac was used to remove the wet material from the trench. Once all the wet material was removed, samples were taken from the north wall of the trench, and two auger points were installed in the base of the trench. As the auger points were advanced, samples were taken at varying depths and field tested for chlorides and organic vapors. Representative samples from both the auger points and all three wall samples were taken to a commercial laboratory for analysis (Appendix B). Laboratory results from the wall samples confirmed chloride, Gasoline Range Organics (GRO), Diesel Range Organics (DRO) and BTEX readings at or near non-detectable levels. Laboratory sampling from both auger points revealed elevated chloride readings with depth. GRO, DRO and BTEX readings

in Auger Point 1 returned values at or near non-detectable levels at all depths. In Auger Point 2, GRO, DRO and BTEX readings were elevated at 3 ft bgs. However, the readings declined to non-detectable levels at 12 ft bgs, except for the DRO reading, which returned a result of 17.7 mg/kg. Given the elevated chloride readings with depth in both auger points, RECS installed a 20-mil reinforced poly liner measuring 130 ft x 4 ft throughout the base of the trench (Figure 1). NMOCD verbally approved the liner installation on January 8th, 2014.

On October 10th, 2014, seven points within the remainder of the release area were sampled at the surface and with depth. The soil samples were field tested for chlorides and organic vapors, and the samples were then taken to a commercial laboratory for analysis. Points 1 and 2 and Points 4 through 7 returned laboratory chloride readings below regulatory standards with depth. Point 3 returned laboratory chloride values of 7,330 mg/kg at the surface and 80 mg/kg at 2 ft bgs. GRO, DRO and BTEX readings returned values of non-detect at all points at all depths, except at the surface of Point 6, where the DRO reading was 20.8 mg/kg.

Based on the laboratory analysis of the release, a Corrective Action Plan (CAP) was submitted to NMOCD and BLM on October 30th, 2014. BLM approved the CAP on October 30th, 2014, and NMOCD approved the CAP on October 31st, 2014. The CAP stated that the area around Point 3 would be excavated to a depth of 2 ft bgs (Figure 2). To provide for the safety of equipment and personnel, the excavation would remain 3 – 5 ft from the active pipelines. Once the excavation was completed, a bottom composite would be taken and field tested for chlorides. If the field data indicated that the composite would not achieve a chloride reading below regulatory standards, the scrape would be deepened until field testing indicated that the chloride reading from the bottom composite would be below regulatory standards. The bottom composite would then be taken to a commercial laboratory to confirm that the chloride reading is below regulatory standards.

All excavated soil would be taken to a NMOCD approved facility for disposal. Clean top soil would be imported to the site to serve as backfill. A sample of the imported soil would be taken to a commercial laboratory to confirm that the chloride reading was below regulatory standards. The scrape would be backfilled with the imported soil and contoured to the surrounding location. All disturbed areas in the pasture would be seeded with a blend of native vegetation.

Corrective actions began at the site on November 25th, 2014. The release area, as stated in the CAP, was scraped down 2 ft (Figure 3). A 3 point bottom composite was taken from both the northern and southern scrape. The composites were field tested for chlorides and organic vapors and then taken to a commercial laboratory for analyses (Appendix C). The northern composite returned a laboratory chloride reading of 32 mg/kg, and the southern composite returned a laboratory chloride reading of non-detect. GRO, DRO and BTEX readings for both composites returned readings of non-detect, except for the benzene, toluene and ethyl-benzene in the southern composite. In the southern composite, the benzene reading returned a value of 0.05 mg/kg, the toluene

reading returned a value of 0.113 mg/kg and the ethyl-benzene reading returned a value of 0.062 mg/kg.

On December 5th, 2014, a request to backfill the site was sent to NMOCD and BLM. BLM approved the site to be backfilled on December 8th, 2014, and NMOCD approved the site to be backfilled on December 9th, 2014. All excavated soil, for a total of 105 cubic yards, was taken to NMOCD approved facilities for disposal. A total of 135 cubic yards of top soil was imported to the site to serve as backfill. A 5 point composite of the imported soil was taken to a commercial laboratory for analysis and returned a chloride value of non-detect. The site was backfilled with the imported top soil and contoured to the surrounding location. On December 10th, 2014, the disturbed area was seeded with a 50/50 mix of BLM #2 and BLM #3.

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

Given that CoP has completed the actions as stated in the approved CAP, CoP respectfully requests 'remediation termination' and site closure. The final C-141 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,

A handwritten signature in black ink, appearing to read "Lara Weinheimer". The signature is fluid and cursive, with a long horizontal flourish extending to the right.

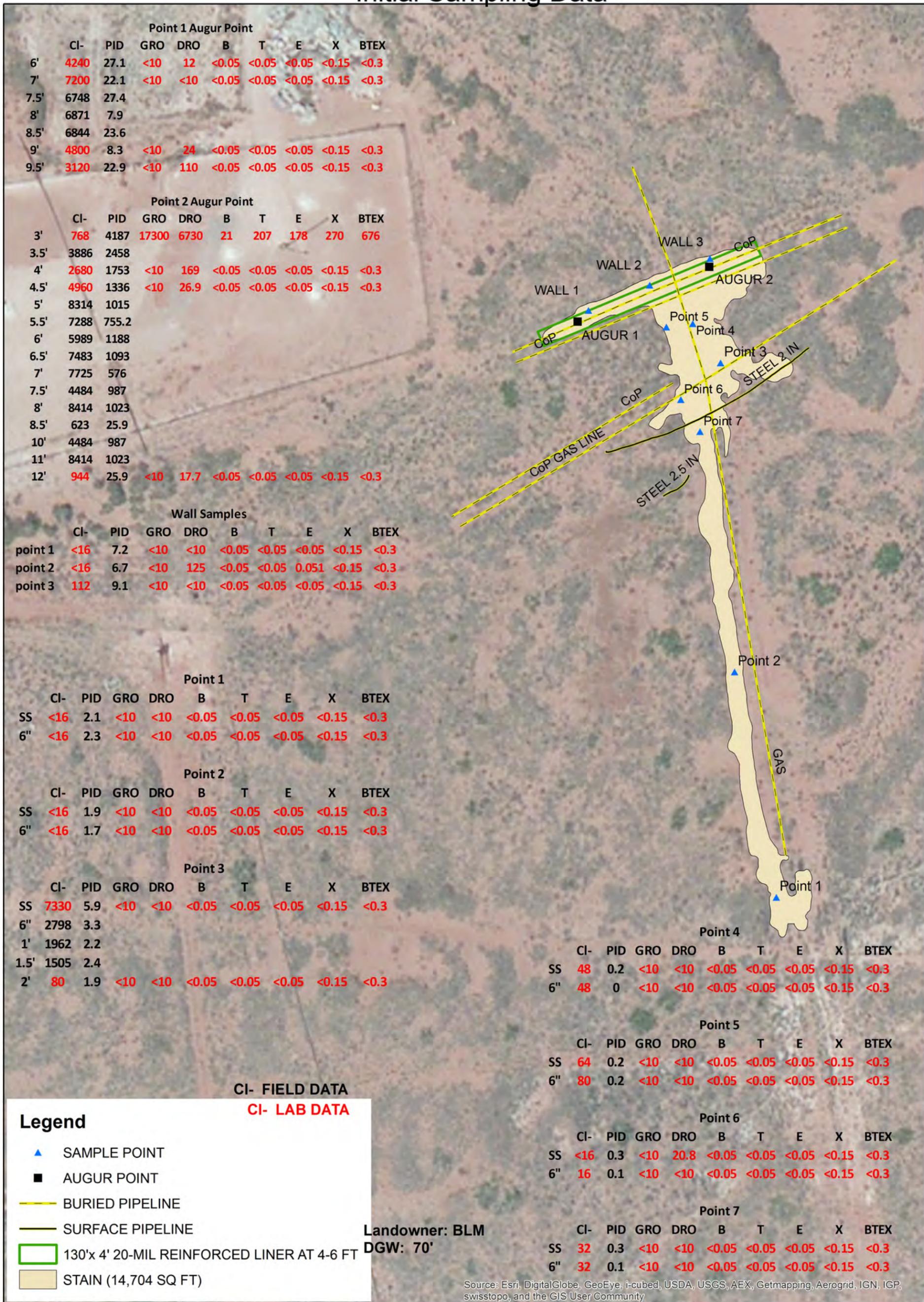
Lara Weinheimer
Project Scientist
RECS
(575) 441-0431

Attachments:

- Figure 1 – Initial Sampling Data
- Figure 2 – Proposed Excavation Map
- Figure 3 – Excavation Data
- Appendix A – Initial C-141
- Appendix B – Initial Sampling Labs
- Appendix C – Corrective Action Sampling Labs
- Appendix D – Photo Documentation
- Appendix E – Final C-141

Figures

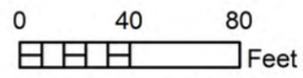
Initial Sampling Data



CONOCOPHILLIPS MCA TRANSFER LINE

LEGALS: UL/B SEC. 28
T17S R32E
LEA COUNTY, NM

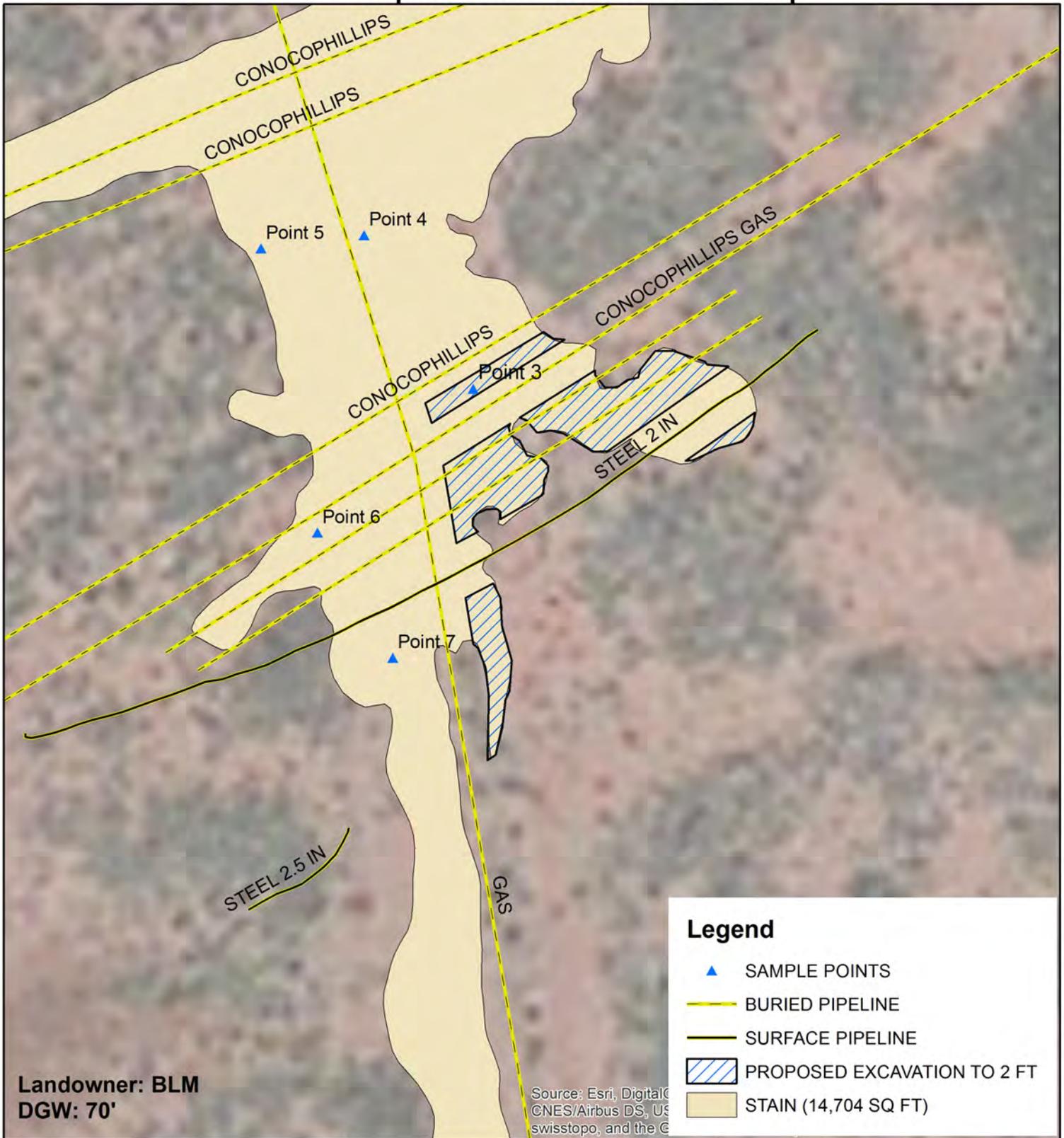
Figure 1



GPS date: 10/10/14 CF
Drawing date: 10/14/14
Drafted by: L. Weinheimer



Proposed Excavation Map



Landowner: BLM
DGW: 70'

Source: Esri, DigitalGlobe, GeoEye, IGN, CNES/Airbus DS, USDA, AeroGRID, IGN, Esri, Swisstopo, and the CIA



CONOCOPHILLIPS MCA TRANSFER LINE

LEGALS: UL/B SEC. 28
T17S R32E
LEA COUNTY, NM

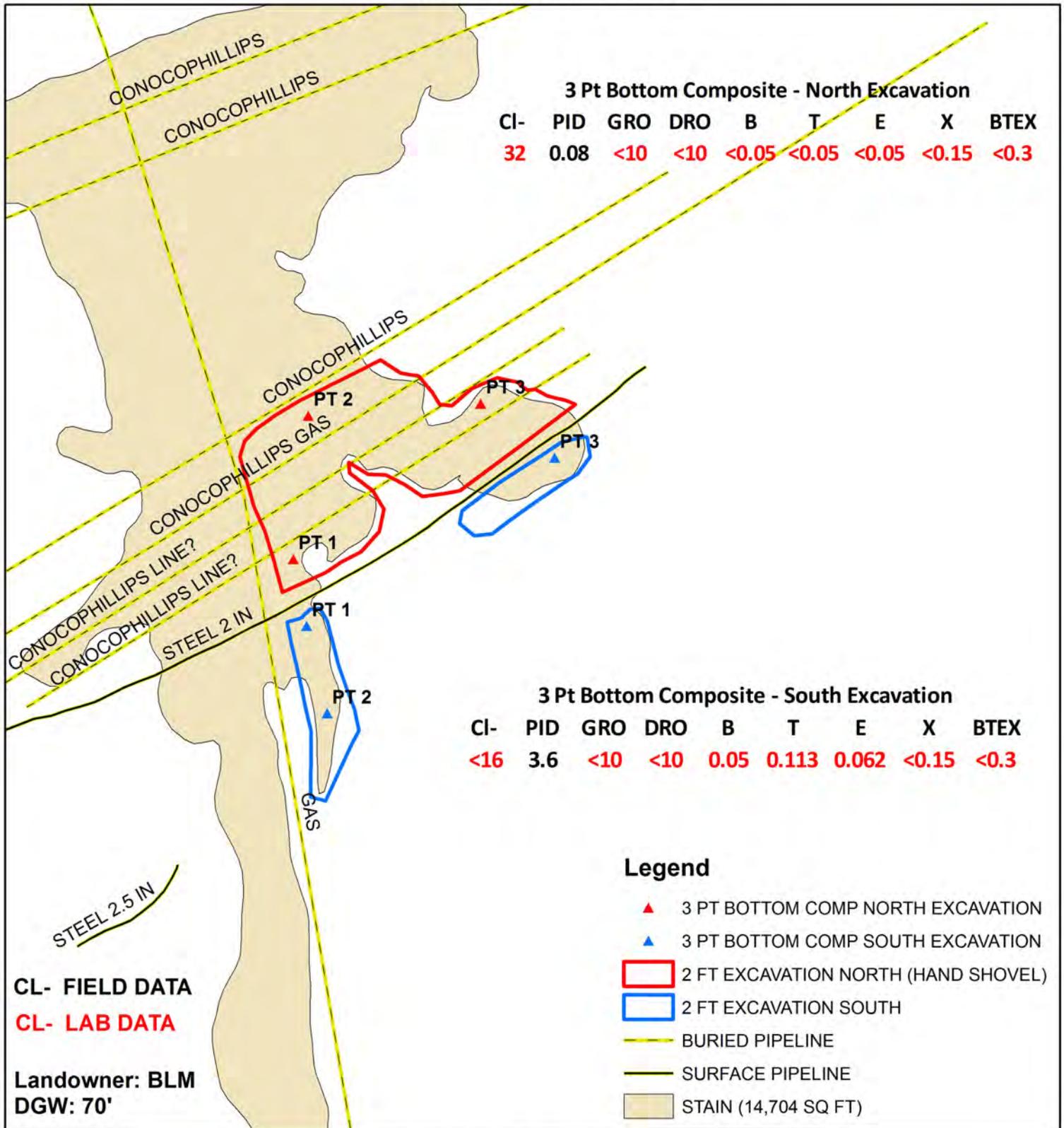
Figure 2



0 10 20
Feet

GPS date: 8/19/14 KS, 10/10/14 CF
Drawing date: 10/22/14
Drafted by: L. Weinheimer, T. Grieco

Excavation Data



**CONOCOPHILLIPS
MCA TRANSFER LINE**

LEGALS: UL/B SEC. 28
T17S R32E
LEA COUNTY, NM

Figure 3

0 20 40 Feet

GPS date: 12/03/14 KS
Drawing date: 12/05/14
Drafted by: B. Cooper, L. Weinheimer

Appendix A

Initial C-141

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

HOBBS OCD

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
RECEIVED
1000 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: Jose A Zepeda
Address: 1410 N West County Road	Telephone No. 575-391-3165
Facility Name: Transfer Line	Facility Type: Pipeline
Surface Owner: Federal	Mineral Owner: N/A
API No. Fed Lse No	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	28	17S	32E	680'	North Line	1980'	West	LEA

Latitude 32.8110202208679 Longitude 103.77358375187

NATURE OF RELEASE

Type of Release: Produce Water	Volume of Release: 25 BBLs	Volume Recovered: 0
Source of Release: Transfer Line	Date and Hour of Occurrence 12/13/13 0850 hours	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? Geoffrey Leking	
By Whom? Jose A Zepeda	Date and Hour: 12/13/13 1445 hours	
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.* N/A		

Describe Cause of Problem and Remedial Action Taken.* On 12/13/13 @ ~ 0850 hrs, property damage occurred resulting in a reportable release to a COPC water transfer line as excavation was being conducted for Project Group. The release occurred approximately .8 miles S of the Maljamar Office as the track-hoe was being operated by the contract excavation company operator struck a 8 inch fiberglass line that transfers produced water from Station #2 and Station #4. The area Project Lead responded after being contacted by excavation supervisor. The line was identified and shut in by the MSO. Spill volumes were calculated to be ~25 bbls of produced water with 0 bbls being recovered due to sandy condition and not being able to get a vacuum truck in the area. COPC had completed an area sweep of all line and had identified affected line and was fully identified and spotted. Contractor Equipment Operator decided to excavate in an area that was not supposed to be excavated on any longer resulting in property damage resulting in release of 25 BBL of PDW. The spill site will be remediated in accordance with COPC and NMOCD guidelines.

Describe Area Affected and Cleanup Action Taken.* Pipeline Ditch and some pasture area got run off.

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: JOSE A ZEPEDA	OIL CONSERVATION DIVISION	
Printed Name: Jose A Zepeda	Approved by Environmental Specialist:	
Title: LEAD HSE	Approval Date: 10-10-14	Expiration Date: 12-10-14
E-mail Address: Jose. A. Zepeda@conocophillips.com	Conditions of Approval: <i>Site inspection and release corrected in per NMOCD guide. Submit final C-141 by 12-10-14</i>	Attached <input type="checkbox"/>
Date: 12/13/13	Phone: 575-391-3158	IRP-3373

* Attach Additional Sheets If Necessary

OCT 17 2014

0940 217817
7701428 343353
1704148 343576
7701428 343802

Appendix B

Initial Sampling Labs

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



January 09, 2014

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: MCA TRANSFER LINE

Enclosed are the results of analyses for samples received by the laboratory on 01/08/14 16:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" at the beginning.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/08/2014	Sampling Date:	01/07/2014
Reported:	01/09/2014	Sampling Type:	Soil
Project Name:	MCA TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 1 WALL (H400065-01)

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	01/09/2014	ND	1.86	93.1	2.00	2.40	
Toluene*	<0.050	0.050	01/09/2014	ND	1.85	92.5	2.00	2.47	
Ethylbenzene*	<0.050	0.050	01/09/2014	ND	1.90	94.8	2.00	2.46	
Total Xylenes*	<0.150	0.150	01/09/2014	ND	5.64	93.9	6.00	1.54	
Total BTEX	<0.300	0.300	01/09/2014	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/09/2014	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	01/09/2014	ND	176	88.2	200	7.91	
DRO >C10-C28	<10.0	10.0	01/09/2014	ND	178	89.2	200	7.01	

Surrogate: 1-Chlorooctane 94.1 % 65.2-140
Surrogate: 1-Chlorooctadecane 104 % 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
 JACOB KAMPLAIN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	01/08/2014	Sampling Date:	01/07/2014
Reported:	01/09/2014	Sampling Type:	Soil
Project Name:	MCA TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 2 WALL (H400065-02)

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	01/09/2014	ND	1.86	93.1	2.00	2.40	
Toluene*	<0.050	0.050	01/09/2014	ND	1.85	92.5	2.00	2.47	
Ethylbenzene*	0.051	0.050	01/09/2014	ND	1.90	94.8	2.00	2.46	
Total Xylenes*	<0.150	0.150	01/09/2014	ND	5.64	93.9	6.00	1.54	
Total BTEX	<0.300	0.300	01/09/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/09/2014	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	01/09/2014	ND	176	88.2	200	7.91	
DRO >C10-C28	125	10.0	01/09/2014	ND	178	89.2	200	7.01	

Surrogate: 1-Chlorooctane 86.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.7 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/08/2014	Sampling Date:	01/07/2014
Reported:	01/09/2014	Sampling Type:	Soil
Project Name:	MCA TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 3 WALL (H400065-03)

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	01/09/2014	ND	1.86	93.1	2.00	2.40	
Toluene*	<0.050	0.050	01/09/2014	ND	1.85	92.5	2.00	2.47	
Ethylbenzene*	<0.050	0.050	01/09/2014	ND	1.90	94.8	2.00	2.46	
Total Xylenes*	<0.150	0.150	01/09/2014	ND	5.64	93.9	6.00	1.54	
Total BTEX	<0.300	0.300	01/09/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/09/2014	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	01/09/2014	ND	176	88.2	200	7.91	
DRO >C10-C28	<10.0	10.0	01/09/2014	ND	178	89.2	200	7.01	

Surrogate: 1-Chlorooctane 89.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.1 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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

Received:	01/08/2014	Sampling Date:	01/07/2014
Reported:	01/09/2014	Sampling Type:	Soil
Project Name:	MCA TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 1 @ 6' (H400065-04)

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	01/09/2014	ND	1.86	93.1	2.00	2.40	
Toluene*	<0.050	0.050	01/09/2014	ND	1.85	92.5	2.00	2.47	
Ethylbenzene*	<0.050	0.050	01/09/2014	ND	1.90	94.8	2.00	2.46	
Total Xylenes*	<0.150	0.150	01/09/2014	ND	5.64	93.9	6.00	1.54	
Total BTEX	<0.300	0.300	01/09/2014	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	01/09/2014	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	01/09/2014	ND	176	88.2	200	7.91	
DRO >C10-C28	12.0	10.0	01/09/2014	ND	178	89.2	200	7.01	

Surrogate: 1-Chlorooctane 88.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 89.4 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Received:	01/08/2014	Sampling Date:	01/07/2014
Reported:	01/09/2014	Sampling Type:	Soil
Project Name:	MCA TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 1 @ 7' (H400065-05)

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	01/09/2014	ND	1.86	93.1	2.00	2.40	
Toluene*	<0.050	0.050	01/09/2014	ND	1.85	92.5	2.00	2.47	
Ethylbenzene*	<0.050	0.050	01/09/2014	ND	1.90	94.8	2.00	2.46	
Total Xylenes*	<0.150	0.150	01/09/2014	ND	5.64	93.9	6.00	1.54	
Total BTEX	<0.300	0.300	01/09/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7200	16.0	01/09/2014	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	01/09/2014	ND	176	88.2	200	7.91	
DRO >C10-C28	<10.0	10.0	01/09/2014	ND	178	89.2	200	7.01	

Surrogate: 1-Chlorooctane 89.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.6 % 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
 JACOB KAMPLAIN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	01/08/2014	Sampling Date:	01/07/2014
Reported:	01/09/2014	Sampling Type:	Soil
Project Name:	MCA TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 1 @ 9' (H400065-06)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/09/2014	ND	1.86	93.1	2.00	2.40		
Toluene*	<0.050	0.050	01/09/2014	ND	1.85	92.5	2.00	2.47		
Ethylbenzene*	<0.050	0.050	01/09/2014	ND	1.90	94.8	2.00	2.46		
Total Xylenes*	<0.150	0.150	01/09/2014	ND	5.64	93.9	6.00	1.54		
Total BTEX	<0.300	0.300	01/09/2014	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4800	16.0	01/09/2014	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	01/09/2014	ND	176	88.2	200	7.91		
DRO >C10-C28	24.0	10.0	01/09/2014	ND	178	89.2	200	7.01		

Surrogate: 1-Chlorooctane 95.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.7 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	01/08/2014	Sampling Date:	01/07/2014
Reported:	01/09/2014	Sampling Type:	Soil
Project Name:	MCA TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 1 @ 9.5 (H400065-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/09/2014	ND	1.86	93.1	2.00	2.40	
Toluene*	<0.050	0.050	01/09/2014	ND	1.85	92.5	2.00	2.47	
Ethylbenzene*	<0.050	0.050	01/09/2014	ND	1.90	94.8	2.00	2.46	
Total Xylenes*	<0.150	0.150	01/09/2014	ND	5.64	93.9	6.00	1.54	
Total BTEX	<0.300	0.300	01/09/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	01/09/2014	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	01/09/2014	ND	176	88.2	200	7.91	
DRO >C10-C28	110	10.0	01/09/2014	ND	178	89.2	200	7.01	

Surrogate: 1-Chlorooctane 89.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.2 % 63.6-154

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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



January 13, 2014

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: MCA TRANSFER LINE

Enclosed are the results of analyses for samples received by the laboratory on 01/08/14 16:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Received:	01/08/2014	Sampling Date:	01/08/2014
Reported:	01/13/2014	Sampling Type:	Soil
Project Name:	MCA TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 2 @ 3' (H400066-01)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	21.0	5.00	01/09/2014	ND	1.86	93.1	2.00	2.40	
Toluene*	207	5.00	01/09/2014	ND	1.85	92.5	2.00	2.47	
Ethylbenzene*	178	5.00	01/09/2014	ND	1.90	94.8	2.00	2.46	
Total Xylenes*	270	15.0	01/09/2014	ND	5.64	93.9	6.00	1.54	
Total BTEX	676	30.0	01/09/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 130 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	01/09/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	6730	200	01/09/2014	ND	176	88.2	200	7.91	
DRO >C10-C28	17300	200	01/09/2014	ND	178	89.2	200	7.01	

Surrogate: 1-Chlorooctane 260 % 65.2-140
Surrogate: 1-Chlorooctadecane 414 % 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
 JACOB KAMPLAIN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	01/08/2014	Sampling Date:	01/08/2014
Reported:	01/13/2014	Sampling Type:	Soil
Project Name:	MCA TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 2 @ 4.5' (H400066-02)

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	01/09/2014	ND	1.86	93.1	2.00	2.40		
Toluene*	<0.050	0.050	01/09/2014	ND	1.85	92.5	2.00	2.47		
Ethylbenzene*	<0.050	0.050	01/09/2014	ND	1.90	94.8	2.00	2.46		
Total Xylenes*	<0.150	0.150	01/09/2014	ND	5.64	93.9	6.00	1.54		
Total BTEX	<0.300	0.300	01/09/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4960	16.0	01/09/2014	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	01/09/2014	ND	176	88.2	200	7.91		
DRO >C10-C28	26.9	10.0	01/09/2014	ND	178	89.2	200	7.01		

Surrogate: 1-Chlorooctane 90.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.1 % 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
 JACOB KAMPLAIN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	01/08/2014	Sampling Date:	01/08/2014
Reported:	01/13/2014	Sampling Type:	Soil
Project Name:	MCA TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 2 @ 4' (H400066-03)

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	01/09/2014	ND	1.86	93.1	2.00	2.40		
Toluene*	<0.050	0.050	01/09/2014	ND	1.85	92.5	2.00	2.47		
Ethylbenzene*	<0.050	0.050	01/09/2014	ND	1.90	94.8	2.00	2.46		
Total Xylenes*	<0.150	0.150	01/09/2014	ND	5.64	93.9	6.00	1.54		
Total BTEX	<0.300	0.300	01/09/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2680	16.0	01/09/2014	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	01/09/2014	ND	176	88.2	200	7.91		
DRO >C10-C28	169	10.0	01/09/2014	ND	178	89.2	200	7.01		

Surrogate: 1-Chlorooctane 95.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 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
 JACOB KAMPLAIN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	01/08/2014	Sampling Date:	01/08/2014
Reported:	01/13/2014	Sampling Type:	Soil
Project Name:	MCA TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT.2 @ 12' (H400066-04)

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	01/09/2014	ND	1.86	93.1	2.00	2.40	
Toluene*	<0.050	0.050	01/09/2014	ND	1.85	92.5	2.00	2.47	
Ethylbenzene*	<0.050	0.050	01/09/2014	ND	1.90	94.8	2.00	2.46	
Total Xylenes*	<0.150	0.150	01/09/2014	ND	5.64	93.9	6.00	1.54	
Total BTEX	<0.300	0.300	01/09/2014	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
Chloride	944	16.0	01/09/2014	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	01/09/2014	ND	176	88.2	200	7.91	
DRO >C10-C28	17.7	10.0	01/09/2014	ND	178	89.2	200	7.01	

Surrogate: 1-Chlorooctane 89.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.4 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report



Celey D. Keene, Lab Director/Quality Manager

August 22, 2014

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: MCA TRANSFER LINE

Enclosed are the results of analyses for samples received by the laboratory on 08/19/14 16:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/19/2014	Sampling Date:	08/19/2014
Reported:	08/22/2014	Sampling Type:	Soil
Project Name:	MCA TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 1 @ SURFACE (H402543-01)

BTEX 8021B		mg/kg		Analyzed By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2014	ND	1.80	89.8	2.00	5.15	
Toluene*	<0.050	0.050	08/20/2014	ND	1.65	82.6	2.00	4.46	
Ethylbenzene*	<0.050	0.050	08/20/2014	ND	1.84	91.8	2.00	4.49	
Total Xylenes*	<0.150	0.150	08/20/2014	ND	5.47	91.1	6.00	5.21	
Total BTEX	<0.300	0.300	08/20/2014	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/20/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/20/2014	ND	187	93.3	200	1.35	
DRO >C10-C28	<10.0	10.0	08/20/2014	ND	194	96.9	200	2.36	

Surrogate: 1-Chlorooctane 95.6 % 65.2-140
Surrogate: 1-Chlorooctadecane 110 % 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
 JACOB KAMPLAIN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	08/19/2014	Sampling Date:	08/19/2014
Reported:	08/22/2014	Sampling Type:	Soil
Project Name:	MCA TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 1 @ 6" (H402543-02)

BTEX 8021B		mg/kg		Analyzed By: ck						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/20/2014	ND	1.80	89.8	2.00	5.15		
Toluene*	<0.050	0.050	08/20/2014	ND	1.65	82.6	2.00	4.46		
Ethylbenzene*	<0.050	0.050	08/20/2014	ND	1.84	91.8	2.00	4.49		
Total Xylenes*	<0.150	0.150	08/20/2014	ND	5.47	91.1	6.00	5.21		
Total BTEX	<0.300	0.300	08/20/2014	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/20/2014	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/20/2014	ND	187	93.3	200	1.35		
DRO >C10-C28	<10.0	10.0	08/20/2014	ND	194	96.9	200	2.36		

Surrogate: 1-Chlorooctane 96.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 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
 JACOB KAMPLAIN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	08/19/2014	Sampling Date:	08/19/2014
Reported:	08/22/2014	Sampling Type:	Soil
Project Name:	MCA TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 2 @ SURFACE (H402543-03)

BTEX 8021B		mg/kg		Analyzed By: ck						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/20/2014	ND	1.80	89.8	2.00	5.15		
Toluene*	<0.050	0.050	08/20/2014	ND	1.65	82.6	2.00	4.46		
Ethylbenzene*	<0.050	0.050	08/20/2014	ND	1.84	91.8	2.00	4.49		
Total Xylenes*	<0.150	0.150	08/20/2014	ND	5.47	91.1	6.00	5.21		
Total BTEX	<0.300	0.300	08/20/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/20/2014	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/20/2014	ND	187	93.3	200	1.35		
DRO >C10-C28	<10.0	10.0	08/20/2014	ND	194	96.9	200	2.36		

Surrogate: 1-Chlorooctane 96.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/19/2014	Sampling Date:	08/19/2014
Reported:	08/22/2014	Sampling Type:	Soil
Project Name:	MCA TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 2 @ 6" (H402543-04)

BTEX 8021B		mg/kg		Analyzed By: ck						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/20/2014	ND	1.80	89.8	2.00	5.15		
Toluene*	<0.050	0.050	08/20/2014	ND	1.65	82.6	2.00	4.46		
Ethylbenzene*	<0.050	0.050	08/20/2014	ND	1.84	91.8	2.00	4.49		
Total Xylenes*	<0.150	0.150	08/20/2014	ND	5.47	91.1	6.00	5.21		
Total BTEX	<0.300	0.300	08/20/2014	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/20/2014	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/20/2014	ND	187	93.3	200	1.35		
DRO >C10-C28	<10.0	10.0	08/20/2014	ND	194	96.9	200	2.36		

Surrogate: 1-Chlorooctane 95.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/19/2014	Sampling Date:	08/19/2014
Reported:	08/22/2014	Sampling Type:	Soil
Project Name:	MCA TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 3 @ SURFACE (H402543-05)

BTEX 8021B		mg/kg		Analyzed By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2014	ND	1.80	89.8	2.00	5.15	
Toluene*	<0.050	0.050	08/20/2014	ND	1.65	82.6	2.00	4.46	
Ethylbenzene*	<0.050	0.050	08/20/2014	ND	1.84	91.8	2.00	4.49	
Total Xylenes*	<0.150	0.150	08/20/2014	ND	5.47	91.1	6.00	5.21	
Total BTEX	<0.300	0.300	08/20/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7330	16.0	08/20/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/20/2014	ND	187	93.3	200	1.35	
DRO >C10-C28	<10.0	10.0	08/20/2014	ND	194	96.9	200	2.36	

Surrogate: 1-Chlorooctane 96.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 114 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/19/2014	Sampling Date:	08/19/2014
Reported:	08/22/2014	Sampling Type:	Soil
Project Name:	MCA TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 3 @ 2' (H402543-06)

BTEX 8021B		mg/kg		Analyzed By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2014	ND	1.80	89.8	2.00	5.15	
Toluene*	<0.050	0.050	08/20/2014	ND	1.65	82.6	2.00	4.46	
Ethylbenzene*	<0.050	0.050	08/20/2014	ND	1.84	91.8	2.00	4.49	
Total Xylenes*	<0.150	0.150	08/20/2014	ND	5.47	91.1	6.00	5.21	
Total BTEX	<0.300	0.300	08/20/2014	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/20/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/20/2014	ND	187	93.3	200	1.35	
DRO >C10-C28	<10.0	10.0	08/20/2014	ND	194	96.9	200	2.36	

Surrogate: 1-Chlorooctane 98.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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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

October 13, 2014

KYLE NORMAN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: MCA TRANSFER LINE

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

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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/10/2014	Sampling Date:	10/10/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	MCA TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: POINT 4 AUGER @ SURFACE (H403126-01)

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	10/13/2014	ND	1.73	86.7	2.00	1.98		
Toluene*	<0.050	0.050	10/13/2014	ND	1.67	83.4	2.00	2.16		
Ethylbenzene*	<0.050	0.050	10/13/2014	ND	1.60	79.9	2.00	3.62		
Total Xylenes*	<0.150	0.150	10/13/2014	ND	4.77	79.5	6.00	3.41		
Total BTEX	<0.300	0.300	10/13/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/13/2014	ND	432	108	400	3.77		

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	10/11/2014	ND	178	88.9	200	0.0506		
DRO >C10-C28	<10.0	10.0	10/11/2014	ND	188	94.0	200	0.737		

Surrogate: 1-Chlorooctane 107 % 47.2-157
Surrogate: 1-Chlorooctadecane 114 % 52.1-176

Cardinal Laboratories

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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:	10/10/2014	Sampling Date:	10/10/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	MCA TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: POINT 4 AUGER @ 6" (H403126-02)

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	10/13/2014	ND	1.73	86.7	2.00	1.98	
Toluene*	<0.050	0.050	10/13/2014	ND	1.67	83.4	2.00	2.16	
Ethylbenzene*	<0.050	0.050	10/13/2014	ND	1.60	79.9	2.00	3.62	
Total Xylenes*	<0.150	0.150	10/13/2014	ND	4.77	79.5	6.00	3.41	
Total BTEX	<0.300	0.300	10/13/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	10/13/2014	ND	432	108	400	3.77	

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	10/11/2014	ND	178	88.9	200	0.0506	
DRO >C10-C28	<10.0	10.0	10/11/2014	ND	188	94.0	200	0.737	

Surrogate: 1-Chlorooctane 93.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 98.3 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/10/2014	Sampling Date:	10/10/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	MCA TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: POINT 5 AUGER @ SURFACE (H403126-03)

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	10/13/2014	ND	1.73	86.7	2.00	1.98		
Toluene*	<0.050	0.050	10/13/2014	ND	1.67	83.4	2.00	2.16		
Ethylbenzene*	<0.050	0.050	10/13/2014	ND	1.60	79.9	2.00	3.62		
Total Xylenes*	<0.150	0.150	10/13/2014	ND	4.77	79.5	6.00	3.41		
Total BTEX	<0.300	0.300	10/13/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/13/2014	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	10/11/2014	ND	178	88.9	200	0.0506		
DRO >C10-C28	<10.0	10.0	10/11/2014	ND	188	94.0	200	0.737		

Surrogate: 1-Chlorooctane 98.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 105 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/10/2014	Sampling Date:	10/10/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	MCA TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: POINT 5 AUGER @ 6" (H403126-04)

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	10/13/2014	ND	1.73	86.7	2.00	1.98		
Toluene*	<0.050	0.050	10/13/2014	ND	1.67	83.4	2.00	2.16		
Ethylbenzene*	<0.050	0.050	10/13/2014	ND	1.60	79.9	2.00	3.62		
Total Xylenes*	<0.150	0.150	10/13/2014	ND	4.77	79.5	6.00	3.41		
Total BTEX	<0.300	0.300	10/13/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/13/2014	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	10/11/2014	ND	178	88.9	200	0.0506		
DRO >C10-C28	<10.0	10.0	10/11/2014	ND	188	94.0	200	0.737		

Surrogate: 1-Chlorooctane 109 % 47.2-157
Surrogate: 1-Chlorooctadecane 115 % 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:	10/10/2014	Sampling Date:	10/10/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	MCA TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: POINT 6 AUGER @ SURFACE (H403126-05)

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	10/13/2014	ND	1.73	86.7	2.00	1.98		
Toluene*	<0.050	0.050	10/13/2014	ND	1.67	83.4	2.00	2.16		
Ethylbenzene*	<0.050	0.050	10/13/2014	ND	1.60	79.9	2.00	3.62		
Total Xylenes*	<0.150	0.150	10/13/2014	ND	4.77	79.5	6.00	3.41		
Total BTEX	<0.300	0.300	10/13/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/13/2014	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	10/11/2014	ND	178	88.9	200	0.0506		
DRO >C10-C28	20.8	10.0	10/11/2014	ND	188	94.0	200	0.737		

Surrogate: 1-Chlorooctane 106 % 47.2-157
Surrogate: 1-Chlorooctadecane 112 % 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:	10/10/2014	Sampling Date:	10/10/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	MCA TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: POINT 6 AUGER @ 6" (H403126-06)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/13/2014	ND	1.73	86.7	2.00	1.98		
Toluene*	<0.050	0.050	10/13/2014	ND	1.67	83.4	2.00	2.16		
Ethylbenzene*	<0.050	0.050	10/13/2014	ND	1.60	79.9	2.00	3.62		
Total Xylenes*	<0.150	0.150	10/13/2014	ND	4.77	79.5	6.00	3.41		
Total BTEX	<0.300	0.300	10/13/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/13/2014	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	10/11/2014	ND	178	88.9	200	0.0506		
DRO >C10-C28	<10.0	10.0	10/11/2014	ND	188	94.0	200	0.737		

Surrogate: 1-Chlorooctane 104 % 47.2-157

Surrogate: 1-Chlorooctadecane 107 % 52.1-176

Cardinal Laboratories

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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:	10/10/2014	Sampling Date:	10/10/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	MCA TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: POINT 7 AUGER @ SURFACE (H403126-07)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/13/2014	ND	1.73	86.7	2.00	1.98		
Toluene*	<0.050	0.050	10/13/2014	ND	1.67	83.4	2.00	2.16		
Ethylbenzene*	<0.050	0.050	10/13/2014	ND	1.60	79.9	2.00	3.62		
Total Xylenes*	<0.150	0.150	10/13/2014	ND	4.77	79.5	6.00	3.41		
Total BTEX	<0.300	0.300	10/13/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/13/2014	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	10/11/2014	ND	178	88.9	200	0.0506		
DRO >C10-C28	<10.0	10.0	10/11/2014	ND	188	94.0	200	0.737		

Surrogate: 1-Chlorooctane 108 % 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

Analytical Results For:

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

Received:	10/10/2014	Sampling Date:	10/10/2014
Reported:	10/13/2014	Sampling Type:	Soil
Project Name:	MCA TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

Sample ID: POINT 7 AUGER @ 6" (H403126-08)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/13/2014	ND	1.73	86.7	2.00	1.98		
Toluene*	<0.050	0.050	10/13/2014	ND	1.67	83.4	2.00	2.16		
Ethylbenzene*	<0.050	0.050	10/13/2014	ND	1.60	79.9	2.00	3.62		
Total Xylenes*	<0.150	0.150	10/13/2014	ND	4.77	79.5	6.00	3.41		
Total BTEX	<0.300	0.300	10/13/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/13/2014	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	10/11/2014	ND	178	88.9	200	0.0506		
DRO >C10-C28	<10.0	10.0	10/11/2014	ND	188	94.0	200	0.737		

Surrogate: 1-Chlorooctane 107 % 47.2-157

Surrogate: 1-Chlorooctadecane 116 % 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

Cardinal Laboratories

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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

RUSH

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: RECS		BILL TO				ANALYSIS REQUEST																					
Project Manager: Laura Flores / Kyle Norman		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 #: Fax #:		Address:																									
Project #: Project Owner:		City:																									
Project Name: Conoco Phillips		State: Zip:																									
Project Location: MCA Transfer Line		Phone #:																									
Sampler Name: Chris Flores		Fax #:																									
FOR LAB USE ONLY		(G/RAB OR (C)/OMP)	# CONTAINERS	MATRIX								PRESERV.	SAMPLING														
Lab I.D.	Sample I.D.			GROUNDWATER	WASTEWATER							SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME							
H403126											10-10-2014	12:00 PM	X	X	X												
01	Point 4 Auger @ Surface	G	1			✓			✓		}	12:05 PM	X	X	X												
02	Point 4 Auger @ 6"	G	1			✓			✓			12:10 PM	X	X	X												
03	Point 5 Auger @ Surface	G	1			✓			✓			12:15 PM	X	X	X												
04	Point 5 Auger @ 6"	G	1			✓			✓			12:20 PM	X	X	X												
05	Point 6 Auger @ Surface	G	1			✓			✓			12:25 PM	X	X	X												
06	Point 6 Auger @ 6"	G	1			✓			✓			12:30 PM	X	X	X												
07	Point 7 Auger @ Surface	G	1			✓			✓			12:35 PM	X	X	X												
08	Point 7 Auger @ 6"	G	1			✓			✓																		

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Relinquished By:	Date: 10-10-2014 Time: 2:40p	Received By:	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date: _____ Time: _____	Received By:	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 5.8°C	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: (Initials) cph	REMARKS: email results: hconder@rice-ecs.com; knorman@rice-ecs.com; jkamplain@rice-ecs.com; regans@rice-ecs.com; lflores@rice-ecs.com; lweinheimer@rice-ecs.com; cursanic@rice-ecs.com environmental tech: cflores@rice-ecs.com

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

#54

Appendix C

Corrective Action Sampling Labs

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



December 04, 2014

LAURA FLORES
RICE ENVIRONMENTAL CONSULTING & SAFETY LLC
419 W. CAIN
HOBBS, NM 88240

RE: MCA TRANSFER LINE

Enclosed are the results of analyses for samples received by the laboratory on 12/03/14 15:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Received:	12/03/2014	Sampling Date:	12/03/2014
Reported:	12/04/2014	Sampling Type:	Soil
Project Name:	MCA TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: 3 PT. COMP 2' EXC (H403687-01)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/04/2014	ND	1.96	97.8	2.00	2.18	
Toluene*	<0.050	0.050	12/04/2014	ND	1.93	96.5	2.00	1.89	
Ethylbenzene*	<0.050	0.050	12/04/2014	ND	1.83	91.7	2.00	1.94	
Total Xylenes*	<0.150	0.150	12/04/2014	ND	5.63	93.8	6.00	2.05	
Total BTEX	<0.300	0.300	12/04/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/04/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/04/2014	ND	199	99.5	200	0.653	
DRO >C10-C28	<10.0	10.0	12/04/2014	ND	204	102	200	0.660	

Surrogate: 1-Chlorooctane 136 % 47.2-157
Surrogate: 1-Chlorooctadecane 155 % 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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

November 26, 2014

LAURA FLORES

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: MCA TRANSFER LINE

Enclosed are the results of analyses for samples received by the laboratory on 11/25/14 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Hope S. Moreno For Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/25/2014	Sampling Date:	11/25/2014
Reported:	11/26/2014	Sampling Type:	Soil
Project Name:	MCA TRANSFER LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: 3 POINT COMPOSTIRE 2' EXCAVATION (H403634-01)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.050	0.050	11/25/2014	ND	1.73	86.5	2.00	6.14	
Toluene*	0.113	0.050	11/25/2014	ND	1.71	85.5	2.00	6.80	
Ethylbenzene*	0.062	0.050	11/25/2014	ND	1.71	85.3	2.00	7.55	
Total Xylenes*	<0.150	0.150	11/25/2014	ND	5.19	86.4	6.00	7.82	
Total BTEX	<0.300	0.300	11/25/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/26/2014	ND	400	100	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	11/25/2014	ND	197	98.7	200	0.107	
DRO >C10-C28	<10.0	10.0	11/25/2014	ND	198	99.1	200	1.15	

Surrogate: 1-Chlorooctane 108 % 47.2-157
Surrogate: 1-Chlorooctadecane 122 % 52.1-176

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



PUSH!!!
X X X

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <i>RECS</i>				BILL TO				ANALYSIS REQUEST																							
Project Manager: <i>Laura Flores, Kyle Norman</i>				P.O. #:																											
Address:				Company:																											
City:		State:		Zip:		Attn:																									
Phone #:		Fax #:		Address:																											
Project #:		Project Owner:		City:																											
Project Name:				State:																Zip:											
Project Location: <i>MCA Transfer Line</i>				Phone #:																											
Sampler Name: <i>Kyle Schnaidt</i>				Fax #:																											
FOR LAB USE ONLY																															
Lab I.D.	Sample I.D.	(G)IRAB OR (C)OMP.	# CONTAINERS	MATRIX																PRESERV.	SAMPLING										
<i>H403634</i>	<i>3 point composite 2' excavation</i>	<i>C</i>	<i>1</i>	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	<i>CI</i>	<i>TPH</i>	<i>BTEX</i>														
						<i>X</i>					<i>X</i>		<i>11-25-14</i>	<i>1:20</i>	<i>X</i>	<i>X</i>	<i>X</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>Kyle Schnaidt</i>	Date: <i>11-25-14</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <i>4:00</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: <i>All Plz</i>	
	Time:			
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	(Initials) <i>KP</i>		

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

H403



December 30, 2014

KYLE NORMAN
RICE ENVIRONMENTAL CONSULTING & SAFETY LLC
419 W. CAIN
HOBBS, NM 88240

RE: MCA TRANSFER LINE

Enclosed are the results of analyses for samples received by the laboratory on 12/10/14 15:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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:	12/10/2014	Sampling Date:	12/10/2014
Reported:	12/30/2014	Sampling Type:	Soil
Project Name:	MCA TRANSFER LINE	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NOT GIVEN		

Sample ID: 5 PT. COMP IMPORTED TOPSOIL (H403771-01)

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	12/11/2014	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Appendix D

Photo Documentation

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

ConocoPhillips MCA Transfer Line

Unit Letter B, Section 28, T17S, R32E



Initial release area, facing south

12/20/13



Initial release area, facing west

12/20/13



Initial release area, facing northwest

12/20/13



Initial release area, facing southwest

12/20/13



Sampling release, facing south

12/23/13



Excavating vertical, facing east

1/8/14



Hydro excavation, facing northeast

1/7/14



Excavation ready for liner, facing southwest

1/9/14



Installing liner in excavation, facing west 1/9/14



Liner installation completed, facing west 1/9/14



Beginning the south 2 ft excavation, facing southeast 11/25/14



Exporting soil, facing east 11/25/14



South excavation completed, facing east 12/3/14



South excavation completed, facing north 12/3/14



North excavation completed, facing south 12/3/14



Importing top soil, facing north 12/9/14



Backfilling site, facing southwest

12/9/14



Backfilling completed, facing northeast

12/10/14



Seeding site, facing northwest

12/10/14



Site completed, facing southeast

12/10/14



Site completed, facing west

12/10/14



Site completed, facing northeast

12/10/14

Appendix E

Final C-141

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 1410 N West County Road, Hobbs	Telephone No.
Facility Name Transfer Line	Facility Type Pipeline

Surface Owner Federal	Mineral Owner N/A	API No.
-----------------------	-------------------	---------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	28	17S	32E	680'	FNL	1980'	FWL	Lea

Latitude 32.8110202208679 Longitude 103.77358375187

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 25 bbls	Volume Recovered 0
Source of Release Transfer Line	Date and Hour of Occurrence 12/13/13 0850 hours	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? Geoffrey Leking	
By Whom? Jose A Zepada	Date and Hour 12/13/13 1445 hours	
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.* As the track-hoe was being operated by the contract excavation company, the operator struck an 8 inch fiberglass line that transfers produced water from Station #2 and Station #4. The line was identified and shut in.

Describe Area Affected and Cleanup Action Taken.* The release covered 14,704 square feet of open trench, caliche road and pasture land. RECS personnel were on site to visually assess the release on December 20th, 2013. Based on the visual assessment, a hydro-vac was used to remove the wet material from the trench. Once all the wet material was removed, samples were taken from the north wall of the trench, and two auger points were installed in the base of the trench. Given the elevated chloride readings with depth in both auger points, RECS installed a 20-mil reinforced poly liner measuring 130 ft x 4 ft throughout the base of the trench. NMOCD verbally approved the liner installation on January 8th, 2014. On October 10th, 2014, seven points within the remainder of the release area were sampled at the surface and with depth. The soil samples were field tested for chlorides and organic vapors, and the samples were then taken to a commercial laboratory for analysis. Based on the laboratory analysis of the release, a CAP was submitted to NMOCD and BLM on October 30th, 2014. BLM approved the CAP on October 30th, 2014, and NMOCD approved the CAP on October 31st, 2014. Corrective actions began at the site on November 25th, 2014. The release area, as stated in the CAP, was scraped down 2 ft. A 3 point bottom composite was taken from both the northern and southern scrape. The composites were taken to a commercial laboratory for analyses. On December 5th, 2014, a request to backfill the site was sent to NMOCD and BLM. BLM approved the site to be backfilled on December 8th, 2014, and NMOCD approved the site to be backfilled on December 9th, 2014. All excavated soil, for a total of 105 cubic yards, was taken to NMOCD approved facilities for disposal. A total of 135 cubic yards of top soil was imported to the site to serve as backfill. A 5 point composite of the imported soil was taken to a commercial laboratory for analysis. The site was backfilled with the imported top soil and contoured to the surrounding location. On December 10th, 2014, the disturbed area was seeded with a 50/50 mix of BLM #2 and BLM #3.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: SEAN ROBINSON	Approved by Environmental Specialist:	
Title: OPERATIONS SUPERVISOR	Approval Date:	Expiration Date:
E-mail Address: stobin@Cap.com	Conditions of Approval:	
Date: 2-27-15 Phone: 575.391.3147	Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary