

RECEIVED

By OCD District 1 at 11:41 am, Jun 19, 2015



APPROVED ; Conditional

By OCD District 1 at 11:41 am, Jun 19, 2015

1. Take at least one sample from where ConocoPhillips scrapped initially, testing for TPH and Chloride.
2. In the confirmatinon sampling in both areas, there should be at least two confirmation samples.
3. Ensure BLM concurrence/approval.

CONOCOPHILLIPS

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

MCA Battery #4 (1RP-3200)

Corrective Action Plan

API No. 30-025-12709

Release Date: July 30th, 2014

Unit Letter A, Section 26, Township 17S, Range 32E



PO Box 2948 | Hobbs, NM 88241 | Phone 575.393.2967

June 19, 2015

Kellie Jones

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

**RE: Corrective Action Plan
ConocoPhillips MCA Battery #4 (1RP-3200)
UL/A sec. 26 T17S R32E
API No. 30-025-12709**

Ms. Jones:

ConocoPhillips (CoP) has retained Basin Environmental Service Technologies (Basin) to address potential environmental concerns at the above-referenced site.

Background and Previous Work

The site is located approximately 3.5 miles southeast of Maljamar, New Mexico at UL/A sec. 26 T17S R32E. NM OSE, BLM and RECS installed monitor well records indicate that groundwater will likely be encountered at a depth of approximately 69 +/- feet.

On July 30th, 2014, CoP discovered that a heater treater water line on the production heater had pressured up and started to leak, releasing 17.5 barrels of produced water over 1,841 sq ft of lease pad, lease road and pasture. A total of 8 barrels of produced water was recovered. NMOCD and BLM were notified of the release July 30th, 2014, and an initial C-141 was submitted to both agencies for approval. NMOCD approved the C-141 on July 30th, 2014 (Appendix A).

Because this site is located in a high-traffic area, CoP immediately scraped the road to 6 inches bgs. Approximately 12 yards of contaminated soil was exported to a NMOCD approved facility. The scrape was then backfilled with approximately 12 yards of clean, imported base course.

Basin personnel were on site to visually assess the release on August 1st, 2014, and June 8th, 2015. The release was mapped and photographed (Appendix B). Point 1 was sampled at the surface and at 6 inches bgs. Both samples were sent to a commercial laboratory for analysis. Laboratory analysis returned a chloride value of 112 mg/kg, a Gasoline Range Organics (GRO) value of non-detect, and a Diesel Range Organics (DRO) value of 661 mg/kg at the surface. At 6 inches bgs, laboratory analysis returned a chloride value of 80 mg/kg, a GRO value of non-detect and a DRO value of 21.9 mg/kg. A vertical was installed at Point 2 to 1 ft bgs and was sampled

at regular intervals. All samples were sent to a commercial laboratory for analysis. Laboratory analysis returned a chloride value of 1,600 mg/kg, a GRO reading of 157 mg/kg and a DRO reading of 8,160 mg/kg at the surface. At 6 inches bgs, laboratory analysis returned a chloride value of 224 mg/kg, a GRO value of 321 mg/kg and a DRO value of 2,300 mg/kg. At 1 ft bgs, laboratory analysis returned a chloride value of 16 mg/kg, a GRO value of 123 mg/kg and a DRO value of 1,220 mg/kg. At 1.5 ft bgs, laboratory analysis returned a GRO value of 101 mg/kg and a DRO value of 1910 mg/kg (Appendix C).

Corrective Action Plan

Based on the initial assessment of the site, the release area around Point 1 will be scraped down 6 inches bgs, and the area around Point 2 will be scraped down to 2 ft bgs (Figure 1). Once the scrapes are completed, discrete samples from the bottom of the scrapes will be taken and field tested for chlorides and organic vapors. If the field data indicates that the discrete, bottom samples will not achieve chloride, GRO and DRO readings below regulatory standards, the scrapes will be deepened until field testing indicates that all constituents from the discrete samples will return values below regulatory standards. The two discrete, bottom samples will then be taken to a commercial laboratory to confirm that chloride, GRO and DRO readings are below regulatory standards.

All excavated soils will be taken to a NMOCD approved facility for disposal. Clean soil will be imported to the site to use as backfill. A sample of the imported soil will be taken to a commercial laboratory to confirm that the chloride reading is below regulatory standards. The scrapes will be backfilled with the clean, imported soil and contoured to the surrounding location. The disturbed area in the pasture will then be seeded with a blend of native vegetation.

Once these activities have been completed, a report will be sent to NMOCD requesting 'remediation termination' and site closure.

Basin 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 that reads "Kyle Norman". The signature is fluid and cursive, with a long horizontal line extending from the end of the name.

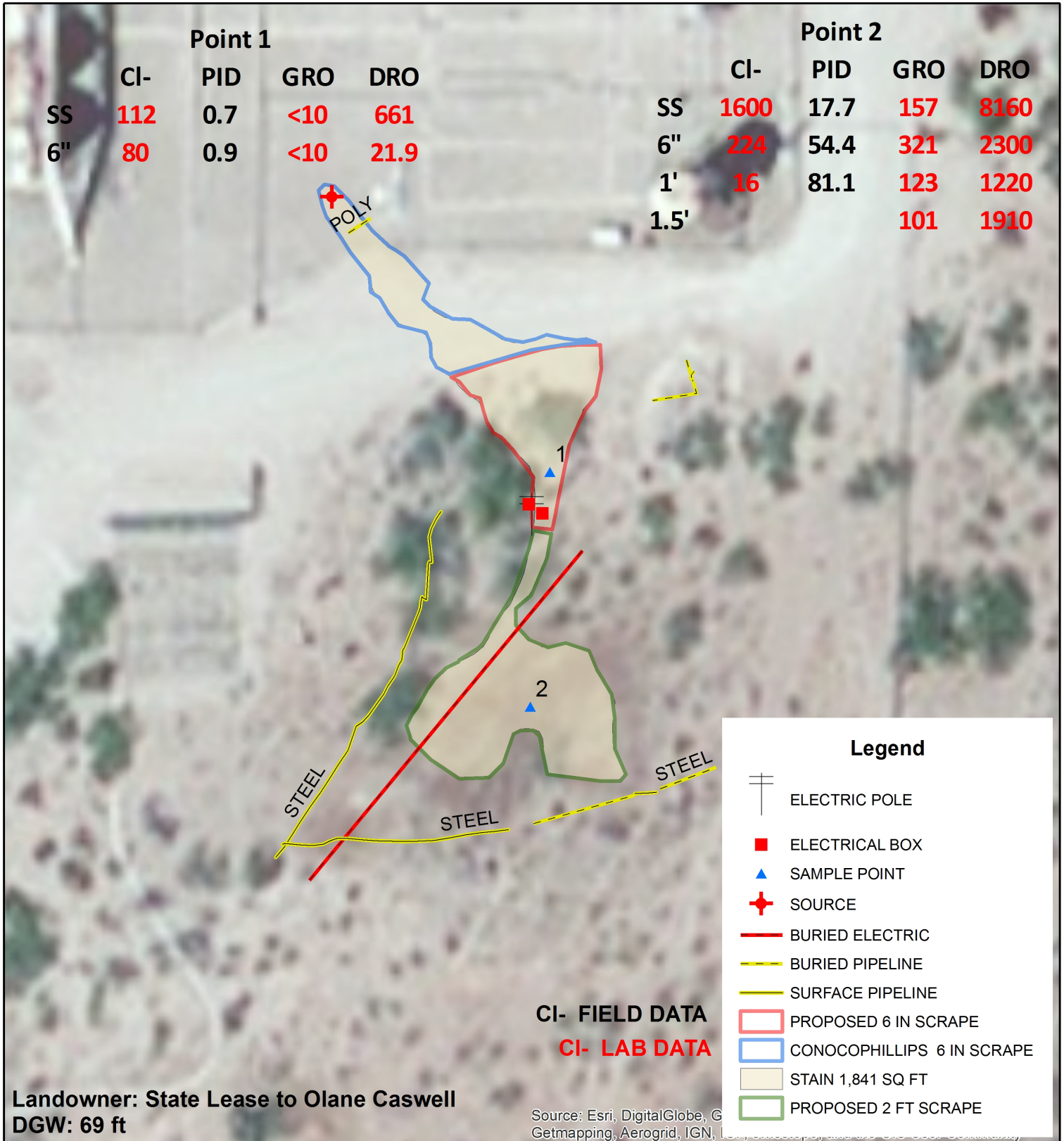
Kyle Norman
Project Lead
Basin Environmental Service Technologies
(575) 942-8542

Attachments:

- Figure 1 – Proposed Scrape
- Appendix A – Initial C-141
- Appendix B – Photo Documentation
- Appendix C – Laboratory Analysis

Figures

Proposed Scrape



CONOCOPHILLIPS
MCA BATTERY #4

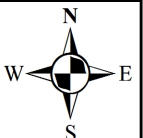
NMOCD CASE #: 1RP-3200


UL A SECTION 26

T-17-S R-32-E

LEA COUNTY, NM

Figure 1



0 10 20
 Feet

GPS date: 8/1/14 CF
Drawing date: 6/18/2015
Drafted by: C. Ursanic, L. Weinheimer

Appendix A

Intial C-141

Basin Environmental Service Technologies
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

HOBBS OCO State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
RECEIVED 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: Spencer Cluff	
Address: 29 Vacuum Complex Lane	Telephone No. 575-391-3143	
Facility Name: MCA Battery 4	Facility Type: Battery	
Surface Owner: BLM	Mineral Owner NMOCD	API No. 3002512709

LOCATION OF RELEASE

Unit Letter A	Section 26	Township 17S	Range 32E	Feet from the 660	North/South Line North	Feet from the 660	East/West Line East	County LEA
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Latitude 32.8076533080148 Longitude - 103.426925251861

NATURE OF RELEASE

Type of Release: Spill	Volume of Release: 17.5 BBLS	Volume Recovered: 8 BBLS
Source of Release: Water Line	Date and Hour of Occurrence 7/30/2014 4:00 a.m.	Date and Hour of Discovery 7/30/2014 4:00 a.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Geoffrey Leking and Solomon Hughes	
By Whom? Spencer Cluff	Date and Hour: 07/30/2014 10:30 a.m.	
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 Wednesday July 30, 2014 at 0400 hrs. MST a produced water release of 17.5 bbls occurred. A water hauler called MSO and notified him of a leak that was happening at MCA Battery 4. The heater treater water line on production heater had pressured up and started to leak. MSO went down to MCA battery 4 and blocked in the line to stop the leak. MSO had shut in all the wells earlier in that night to prevent tank from overflowing due to of water pumps being down over night. Spill length is 63 ft. X 150 ft. X about 2 inches deep. The spill resulted in 17.5 bbls released and 8 bbls recovered. A work order has been submitted to repair the line. The area will be remediated according to NMOCD and COPC guidelines.

Describe Area Affected and Cleanup Action Taken.*

MSO had shut in all the wells earlier in that night to prevent tank from overflowing due to of water pumps being down over night. A work order has been submitted to repair the line. The area will be remediated according to NMOCD and COPC guidelines.

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

Signature: <i>Spencer A. Cluff</i>		OIL CONSERVATION DIVISION	
Printed Name: Spencer Cluff		Approved by Environmental Specialist:	
Title: LEAD HSE	Approval Date: 7-30-14	Expiration Date: 10-3-14	
E-mail Address: spencer.a.cluff@conocophillips.com	Conditions of Approval: <i>Site Signpost repair Delinquent rancher area 95 per NMOCD guidelines</i>		Attached <input type="checkbox"/> 1 RP - 3200
Date: 07/30/2014	Phone: 575-391-3143		

* Attach Additional Sheets If Necessary

Submit final C-141 by 10-3-14

ogrid 217817

170 14 21/14043

p-10 14 21/14043

Appendix B

Photo Documentation

Basin Environmental Service Technologies
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

ConocoPhillips MCA Battery #4

Unit Letter A, Section 26, T17S, R35E



Initial release area, facing southwest

8/1/14



Initial release area, facing west

8/1/14



Initial release area, facing north

8/1/14



Initial release area, facing east

8/1/14

Appendix C

Laboratory Analyses

Basin Environmental Service Technologies
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967



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

August 12, 2014

LAURA FLORES

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: MCA BATTERY #4

Enclosed are the results of analyses for samples received by the laboratory on 08/08/14 8:05.

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, stylized 'C' and 'K'.

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:	08/08/2014	Sampling Date:	08/04/2014
Reported:	08/12/2014	Sampling Type:	Soil
Project Name:	MCA BATTERY #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: PT. 2 AUGER @ SURFACE (H402440-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1600	16.0	08/08/2014	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	157	100	08/08/2014	ND	180	89.8	200	4.12		
DRO >C10-C28	8160	100	08/08/2014	ND	190	94.9	200	4.04		

Surrogate: 1-Chlorooctane 92.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 274 % 63.6-154

Sample ID: PT. 2 AUGER @ 6" (H402440-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	08/08/2014	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	321	200	08/08/2014	ND	180	89.8	200	4.12		
DRO >C10-C28	2300	200	08/08/2014	ND	190	94.9	200	4.04		

Surrogate: 1-Chlorooctane 79.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 126 % 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
 LAURA FLORES
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	08/08/2014	Sampling Date:	08/04/2014
Reported:	08/12/2014	Sampling Type:	Soil
Project Name:	MCA BATTERY #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: PT. 2 AUGER @ 1' (H402440-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/08/2014	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	123	50.0	08/08/2014	ND	180	89.8	200	4.12	
Total TPH C6-C28	1220	50.0	08/08/2014	ND	369	92.3	400	4.08	

Surrogate: 1-Chlorooctane	88.6 %	65.2-140
Surrogate: 1-Chlorooctadecane	117 %	63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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*=Accredited Analyte

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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				BILL TO				ANALYSIS REQUEST																		
Project Manager: Laura Flores, Kyle Neiman				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center;"> <div>Chlorides</div> <div>TPH 8015 M</div> <div>BTEX</div> <div>Texas TPH</div> <div>Complete Cations/Anions</div> <div>TDS</div> </div>																		
Address:				Company:																						
City: Hobbs State: NM Zip: 88240				Attn:																						
Phone #: Fax #:				Address:																						
Project #: Project Owner:				City:																						
Project Name: Conoco Phillips				State: Zip:																						
Project Location: McA Battery #4				Phone #:																						
Sampler Name: Chris Flores				Fax #:																						
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME												
H402440																										
1	Point 2 Auger @ Surface	G	1			<input checked="" type="checkbox"/>							8/4/2014	10:25 AM	X	X										
2	Point 2 Auger @ 6"	G	1			<input checked="" type="checkbox"/>							8/4/2014	10:40 AM	X	X										
3	Point 2 Auger @ 1'	G	1			<input checked="" type="checkbox"/>							8/4/2014	10:45 AM	X	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 rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 8-7-2014 Time: 8:05	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:			REMARKS:	
Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> <input type="checkbox"/> No <input type="checkbox"/> No			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: @rice-ecs.com	
CHECKED BY:				

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

#54

June 10, 2015

KYLE NORMAN

BASIN ENVIRONMENTAL - HOBBS

419 W. CAIN

HOBBS, NM 88240

RE: MCA BATTERY #4

Enclosed are the results of analyses for samples received by the laboratory on 06/09/15 13:45.

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:

BASIN ENVIRONMENTAL - HOBBS
KYLE NORMAN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 393-0293

Received: 06/09/2015
Reported: 06/10/2015
Project Name: MCA BATTERY #4
Project Number: NONE GIVEN
Project Location: COP

Sampling Date: 06/08/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: VERTICAL 1 @ SURFACE (H501478-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/09/2015	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	06/09/2015	ND	182	91.2	200	1.35	
DRO >C10-C28	661	10.0	06/09/2015	ND	194	97.2	200	1.68	
Surrogate: 1-Chlorooctane	101 %	47.2-157							
Surrogate: 1-Chlorooctadecane	145 %	52.1-176							

Sample ID: VERTICAL 1 @ 6" (H501478-02)

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	06/09/2015	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	06/09/2015	ND	182	91.2	200	1.35	
DRO >C10-C28	21.9	10.0	06/09/2015	ND	194	97.2	200	1.68	
Surrogate: 1-Chlorooctane	94.8 %	47.2-157							
Surrogate: 1-Chlorooctadecane	113 %	52.1-176							

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BASIN ENVIRONMENTAL - HOBBS
KYLE NORMAN
419 W. CAIN
HOBBS NM, 88240
Fax To: (575) 393-0293

Received: 06/09/2015
Reported: 06/10/2015
Project Name: MCA BATTERY #4
Project Number: NONE GIVEN
Project Location: COP

Sampling Date: 06/08/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: VERTICAL 2 @ 1.5' (H501478-03)

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	101	50.0	06/09/2015	ND	182	91.2	200	1.35	
DRO >C10-C28	1910	50.0	06/09/2015	ND	194	97.2	200	1.68	

Surrogate: 1-Chlorooctane 105 % 47.2-157

Surrogate: 1-Chlorooctadecane 213 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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.





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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Relinquished By: 				Date: 6/9/13 Time: 1:45		Received By: Jodi Henson		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: Add'l Fax #: REMARKS:	
Relinquished By:				Date: Time:		Received By:		email results: hconder@basinenv.com; knorman@basinenv.com; jkamplain@basinenv; lflores@basinenv; lweinheimer@basinenv; cursanic@basinenv; sedwards@basinenv environmental tech: cflores @basinenv	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:				-60		Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		CHECKED BY: (initials) 	

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

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