



**RECEIVED**

By OCD District 1 at 2:49 pm, Aug 04, 2015

**Lupe Carrasco**  
Environmental Coordinator

August 4, 2015

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

Conditionally

**APPROVED**

By OCD District 1 at 2:49 pm, Aug 04, 2015

**Re: Pronghorn SWD #1**  
**30-025-32735**  
**Sec. 24, T19S-R32E**  
**Lea County, NM**

1. RP will remain open until abandonment, at which point delineation will be conducted to understand extent of contamination.
2. Ensure BLM concurrence/approval.

Dr. Tomas Oberding,

COG Operating LLC would like to submit for your consideration the enclosed documents for closure of the above captioned well. The documents are in response to the C-141 initial report dated March 16, 2015.

### **Background**

The release was caused by a check valve failure resulting in the release of approximately 275 barrels of produced water of which 250 barrels were recovered. The release occurred on the location and ran into the pasture on the east and west side of the location. The west side point of impact occurred over a previously remediated area that includes a 40 mil liner cap at a depth of 4' (outlined in green on the attached Site Diagram).

### **Groundwater**

Based on the Chevron Trend Maps, the release area would be classified at a site ranking of Zero due to the depth of groundwater at greater than 275'. The only well information found for this area pertained to a dry well that was drilled by Tetra Tech on July 14, 2009 in Section 24, Township 19S, Range 32E. The well was drilled to a depth of 141' below surface to determine that groundwater was greater than 100' in depth.

### **Soil Assessment and Analytical Results**

Soil assessment results were not obtained on the pad due to the associated hazards of produced water lines, electrical conduits, and the existence of a below surface liner on the West side of the location. Soil assessment results were also not obtained on the West side of the location due to the existence of a liner at an approximate depth of 4' and associated hazards around existing pipeline infrastructure. Soil assessment results

were obtained on the east side of the location in the pasture with results showing BTEX and TPH levels to be non-detect and chloride levels to be within tolerance levels for regrowth of vegetation. A Site Diagram has been attached for your consideration depicting the approximate area of impaction, existing liner, and infrastructure within and near the facility.

### **Work Plan**

COG Operating LLC proposes no excavation of the release area due to the previous installation of liners at a depth of 4' and soil assessment results with in tolerable levels for plant growth. Any future mitigation of releases will be handled at time of abandonment of the facility.

If there are no objections or further stipulations, COG Operating LLC would like to request closure of the site based on approval of this work plan. Please feel free to contact me with any questions or concerns at (575) 725-0787.

Sincerely,



Lupe Carrasco  
Environmental Coordinator

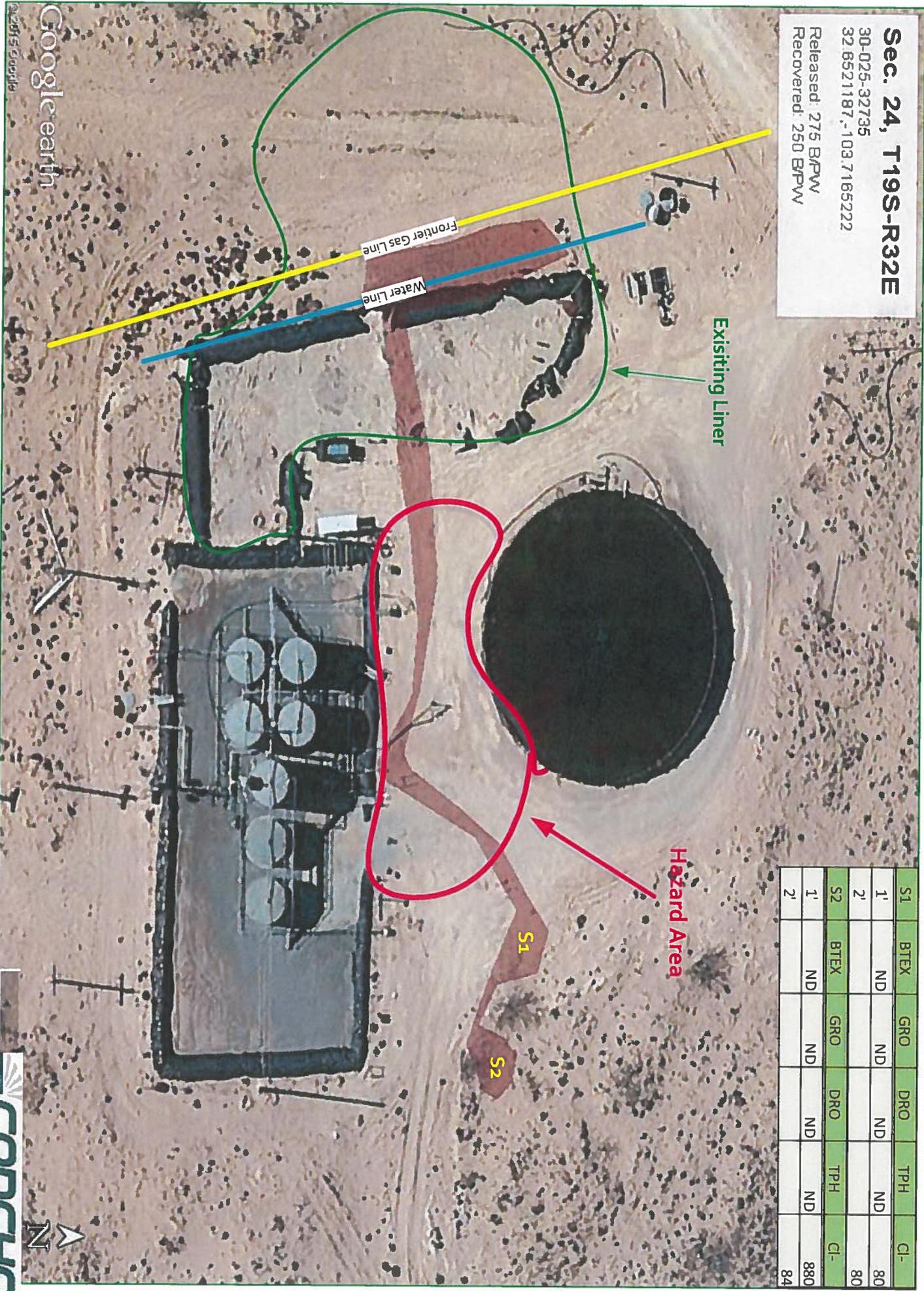
Enclosed: Site Diagram  
C-141 Initial (copy)  
C-141 Final  
Analytical Results

July 30, 2015

# Pronghorn SWD #1

**Sec. 24, T19S-R32E**  
30-025-32735  
32.8521187, -103.7165222  
Released: 275 BFPW  
Recovered: 250 BFPW

S1	BTEX	GRO	DRO	TPH	Cl-
1'	ND	ND	ND	ND	80
2'					80
S2	BTEX	GRO	DRO	TPH	Cl-
1'	ND	ND	ND	ND	880
2'					84



Google earth



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

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 8, 2011

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

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company: COG Operating LLC	Contact: Robert McNeill
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No. 432-230-0077
Facility Name: Pronghorn SWD #1	Facility Type: SWD
Surface Owner: Federal	Mineral Owner: <span style="float: right;">API No. 30-025-32735</span>

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	24	19S	32E	330	North	1650	East	Lea

Latitude 32.6521148131558 Longitude -103.716550178267

**NATURE OF RELEASE**

Type of Release: Produced Water	Volume of Release: 275 bbls	Volume Recovered: 250 bbls
Source of Release: Check Valve Failure	Date and Hour of Occurrence: 3/16/2015 8:23 am	Date and Hour of Discovery: 3/16/2015 8:23 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Tomas Oberding - NMOCD	
By Whom? Amanda Trujillo	Date and Hour: 3/17/2015 4:58 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

This release was caused by check valve failure on facility piping. Vacuum trucks were dispatched to recover all standing fluids and dispose of at an NMOCD approved facility.

Describe Area Affected and Cleanup Action Taken.\*

The impacted area is to west of the bermed area on the pad area. Concho will have the spill site sampled to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation work.

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

Signature: 	<b><u>OIL CONSERVATION DIVISION</u></b>		
Printed Name: Amanda Trujillo	Approved by Environmental Specialist:		
Title: Senior Environmental Coordinator	Approval Date:	Expiration Date:	
E-mail Address: <a href="mailto:atrujillo@concho.com">atrujillo@concho.com</a>	Conditions of Approval:		Attached <input type="checkbox"/>
Date: April 1, 2015	Phone: 575-748-6940		

\* Attach Additional Sheets If Necessary

District I  
1625 N. French Dr., Hobbs, NM 88240  
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811 S. First St., Artesia, NM 88210  
District III  
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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

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1220 South St. Francis Dr.  
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Facility Name: Pronghorn SWD #1	Facility Type: SWD

Surface Owner: Federal	Mineral Owner:	API No. 30-025-32735
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Signature: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Lupe Carrasco	Approved by Environmental Specialist:	
Title: Environmental Coordinator	Approval Date:	Expiration Date:
E-mail Address: gcarrasco@concho.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: July 30, 2015	Phone: 575-748-6940	

\* Attach Additional Sheets If Necessary



June 12, 2015

LUPE CARRASCO

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: PRONGHORN SWD

Enclosed are the results of analyses for samples received by the laboratory on 06/08/15 11:50.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 06/08/2015  
 Reported: 06/12/2015  
 Project Name: PRONGHORN SWD  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 06/04/2015  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S1 - 1' (H501465-01)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/10/2015	ND	2.00	100	2.00	0.157		
Toluene*	<0.050	0.050	06/10/2015	ND	2.00	100	2.00	0.324		
Ethylbenzene*	<0.050	0.050	06/10/2015	ND	2.11	105	2.00	0.117		
Total Xylenes*	<0.150	0.150	06/10/2015	ND	5.78	96.3	6.00	0.608		
Total BTEX	<0.300	0.300	06/10/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	06/11/2015	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/09/2015	ND	182	91.2	200	1.35		
DRO >C10-C28	<10.0	10.0	06/09/2015	ND	194	97.2	200	1.68		

Surrogate: 1-Chlorooctane 101 % 47.2-157

Surrogate: 1-Chlorooctadecane 119 % 52.1-176

**Sample ID: S1 - 2' (H501465-02)**

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	06/11/2015	ND	416	104	400	3.92		

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:**

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

 Received: 06/08/2015  
 Reported: 06/12/2015  
 Project Name: PRONGHORN SWD  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 06/04/2015  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S2 - 1' (H501465-08)**

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	06/10/2015	ND	2.05	103	2.00	0.638	
Toluene*	<0.050	0.050	06/10/2015	ND	2.04	102	2.00	0.700	
Ethylbenzene*	<0.050	0.050	06/10/2015	ND	2.13	107	2.00	2.01	
Total Xylenes*	<0.150	0.150	06/10/2015	ND	5.81	96.9	6.00	2.27	
Total BTEX	<0.300	0.300	06/10/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	880	16.0	06/11/2015	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/09/2015	ND	182	91.2	200	1.35	
DRO >C10-C28	<10.0	10.0	06/09/2015	ND	194	97.2	200	1.68	

Surrogate: 1-Chlorooctane 94.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 115 % 52.1-176

**Sample ID: S2 - 2' (H501465-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	84.0	16.0	06/11/2015	ND	416	104	400	3.92	

Cardinal Laboratories

\* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

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

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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

**BILL TO**

**ANALYSIS REQUEST**

Company Name: <u>COG</u> Project Manager: <u>Lupe Carrasco</u>		P.O. #: <u>COG</u> Company: <u>COG</u>	
Address: _____ City: _____ State: _____ Zip: _____		Attn: _____ Address: _____ City: _____ State: _____ Zip: _____	
Phone #: _____ Fax #: _____ Project #: _____ Project Owner: _____		City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Project Location: <u>Borghorn SWD</u>			
Sampler Name: _____ <small>FOR LAB USE ONLY</small>			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTX	TPH	Chlorides
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER					
<u>H501465</u>	<u>51-1</u>													
	<u>51-2</u>													
	<u>51-3</u>													
	<u>51-4</u>													
	<u>51-5</u>													
	<u>51-6</u>													
	<u>51-8</u>													
	<u>51-10</u>													

DATE: 6/9/15

Received By: \_\_\_\_\_  
 Date: 6/9/15  
 Time: 4:15

Relinquished By: \_\_\_\_\_  
 Date: 6/9/15  
 Time: 4:15

Received By: Lupe Carrasco  
 Date: \_\_\_\_\_  
 Time: \_\_\_\_\_

Delivered By: (Circle One)  
 Sampler - UPS - Bus - Other: 2.92c

Sample Condition:  
 Cool  Intact   
 Pres  No  No

CHECKED BY: \_\_\_\_\_ (initials)

REMARKS:  
 email to gcarrasco@concho.com  
atnjl@concho.com  
 Run chlorides for 2 samples below  
 1000ppm & stop

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2426

#544

