



RECEIVED

By JKeyes at 3:34 pm, Jan 11, 2016

Lupe Carrasco
Environmental Coordinator

January 11, 2016

Oil Conservation Division
District 1 – Hobbs
811 S. First St.
Artesia, NM 88210

Re: Magnum Pronto 32 State SWD #1
30-025-41354
Sec. 32, T19S-R32E
Lea County, NM

Ms. Jones,

COG Operating LLC would like to submit for your consideration the enclosed closure request for the above captioned well. The request is in response to the C-141 Initial report dated August 24, 2015.

The release was caused by a corroded nipple atop the wellhead releasing 89 barrels of produced water of which 80 barrels were recovered. The release impacted the pad and misted across the interim reclamation west of the wellhead (see attached site diagram). Once all possible fluid was recovered, the impacted pad was scraped and all impacted material scraped was hauled for disposal at an approved NMOCD facility.

The analytical results have been attached for your consideration and a summary of the results has been added below and to the attached site diagram.

COG Operating LLC proposes that no excavation be required based on the attached analyticals obtained on October 26, 2015. The analytical results show slightly elevated chloride concentrations at a depth of 4' for S1, S2, and at 3'-4' for S4. At a depth to ground water at greater than 500' (per Chevron Trend Maps), the chlorides left in place pose no threat to the impact of ground water nor will they impede future surface reclamation once the site is plugged and abandoned. Analyticals for BTEX and TPH are included, but were not summarized on the attached site diagram due to being non-detect. S3 at 12' shows a chloride concentration of 1680 ppm, but is believed to be a factor of cross contamination in that it is not conclusive to the samples taken throughout the impacted area.

S1	Cl-	S2	Cl-	S3	Cl-	S4	Cl-	S5	Cl-
1'	96	1'	48	1'	ND	1'	592	1'	48
2'	768	2'	80	2'	48	2'	1040	2'	64
3'	720	3'	208	3'	ND	3'	1760		
4'	1380	4'	1500	4'	ND	4'	7680		
6'	96	6'	1500	6'	224	6'	144		
8'	416	8'	736	8'	896	8'	352		
10'	48	10'	96	10'	80	10'	160		
12'	160	12'	80	12'	1680				
13'	128								

A signed C-141 Final has been attached for closure of the above captioned location.
Please feel free to contact me with any questions or concerns at (575) 748-6933.

Sincerely,



Lupe Carrasco
Environmental Coordinator

Enclosure(s): Site Diagram
Analytical Results
C-141 Initial
C-141 Final

Magnum Pronto 32 State SWD #1

Sec. 32, T19S-32E

32.6163979, -103.7900543

8/24/15

Released: 89 B/PW

Recovered: 80 B/PW

S1	Cl-	
1'	96	
2'	768	
3'	720	
4'	1380	
6'	96	
8'	416	
10'	48	
12'	160	
13'	128	
S2	Cl-	
1'	48	
2'	80	
3'	208	
4'	1500	
6'	1500	
8'	736	
10'	96	
12'	80	
S3	Cl-	
1'	ND	
2'	48	
3'	ND	
4'	ND	
6'	224	
8'	896	
10'	80	
12'	1680	
S4	Cl-	
1'	592	
2'	1040	
3'	1760	
4'	7680	
6'	144	
8'	352	
10'	160	
S5	Cl-	
1'	48	
2'	64	

Interim
Reclamation

Misted
Area S5

Interim
Reclamation

Interim
Reclamation

Legend
Release Area
Sampling Point



100 ft

November 04, 2015

LUPE CARRASCO

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: MAGNUM PRONTO 32 STATE SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 10/28/15 11:30.

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:

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

 Received: 10/28/2015
 Reported: 11/04/2015
 Project Name: MAGNUM PRONTO 32 STATE SWD #1
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/26/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: S1-1' (H502821-01)

BTEX 80218			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/03/2015	ND	1.92	95.9	2.00	0.538	
Toluene*	<0.050	0.050	11/03/2015	ND	2.12	106	2.00	0.745	
Ethylbenzene*	<0.050	0.050	11/03/2015	ND	1.93	96.7	2.00	0.372	
Total Xylenes*	<0.150	0.150	11/03/2015	ND	6.13	102	6.00	0.140	
Total BTEX	<0.300	0.300	11/03/2015	ND					

Surrogate 4-Bromofluorobenzene (PIC) 106 % 73.6-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/30/2015	ND	432	108	400	7.69	

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	10/30/2015	ND	210	105	200	1.78	
DRO >C10-C28	<10.0	10.0	10/30/2015	ND	218	109	200	1.40	

Surrogate 1-Chlorooctane 109 % 35-147

Surrogate 1-Chlorooctadecane 116 % 28-171

Sample ID: S1-2' (H502821-02)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	10/30/2015	ND	432	108	400	7.69	

Cardinal Laboratories

*=Accredited Analyte

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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:	10/28/2015	Sampling Date:	10/26/2015
Reported:	11/04/2015	Sampling Type:	Soil
Project Name:	MAGNUM PRONTO 32 STATE SWD #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: S1-3' (H502821-03)

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	720	16.0	10/30/2015	ND	432	108	400	7.69			

Sample ID: S1-4' (H502821-04)

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	1380	16.0	10/30/2015	ND	432	108	400	7.69			

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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: 10/28/2015
 Reported: 11/04/2015
 Project Name: MAGNUM PRONTO 32 STATE SWD #1
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/26/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: S2-1' (H502821-05)

BTEX 80218			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/03/2015	ND	1.92	95.9	2.00	0.538	
Toluene*	<0.050	0.050	11/03/2015	ND	2.12	106	2.00	0.745	
Ethylbenzene*	<0.050	0.050	11/03/2015	ND	1.93	96.7	2.00	0.372	
Total Xylenes*	<0.150	0.150	11/03/2015	ND	6.13	102	6.00	0.140	
Total BTEX	<0.300	0.300	11/03/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 106 % 73.6-140

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	10/30/2015	ND	432	108	400	7.69	
TPH 8015M		mg/kg		Analyzed By: MS					

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	10/30/2015	ND	210	105	200	1.78	
DRO >C10-C28	<10.0	10.0	10/30/2015	ND	218	109	200	1.40	

Surrogate: 1-Chlorooctane 105 % 35-147

Surrogate: 1-Chlorooctadecane 113 % 28-171

Sample ID: S2-2' (H502821-06)

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	10/30/2015	ND	432	108	400	7.69	

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*=Accredited Analyte

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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: 10/28/2015
Reported: 11/04/2015
Project Name: MAGNUM PRONTO 32 STATE SWD #1
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/26/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: S2-3' (H502821-07)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/30/2015	ND	432	108	400	7.69	

Sample ID: S2-4' (H502821-08)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1500	16.0	10/30/2015	ND	432	108	400	7.69	

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*==Accredited Analyte

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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: 10/28/2015
 Reported: 11/04/2015
 Project Name: MAGNUM PRONTO 32 STATE SWD #1
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/26/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: S3-1' (H502821-09)

BTEX 80218			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/03/2015	ND	1.92	95.9	2.00	0.538	
Toluene*	<0.050	0.050	11/03/2015	ND	2.12	106	2.00	0.745	
Ethylbenzene*	<0.050	0.050	11/03/2015	ND	1.93	96.7	2.00	0.372	
Total Xylenes*	<0.150	0.150	11/03/2015	ND	6.13	102	6.00	0.140	
Total BTEX	<0.300	0.300	11/03/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 105 % 73 6-140

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	10/30/2015	ND	432	108	400	7.69	

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	10/30/2015	ND	210	105	200	1.78	
DRO >C10-C28	<10.0	10.0	10/30/2015	ND	218	109	200	1.40	

Surrogate: 1-Chlorooctane 102 % 35-147

Surrogate: 1-Chlorooctadecane 112 % 28-171

Sample ID: S3-2' (H502821-10)

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	10/30/2015	ND	432	108	400	7.69	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:COG OPERATING
LUPE CARRASCO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONEReceived: 10/28/2015
Reported: 11/04/2015
Project Name: MAGNUM PRONTO 32 STATE SWD #1
Project Number: NONE GIVEN
Project Location: NOT GIVENSampling Date: 10/26/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia**Sample ID: S3-3' (H502821-11)**

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	10/30/2015	ND	432	108	400	7.69			

Sample ID: S3-4' (H502821-12)

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	10/30/2015	ND	432	108	400	7.69			

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*=Accredited Analyte

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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: 10/28/2015
 Reported: 11/04/2015
 Project Name: MAGNUM PRONTO 32 STATE SWD #1
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/26/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: S4-1' (H502821-13)

BTEX 80218			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/03/2015	ND	1.92	95.9	2.00	0.538	
Toluene*	<0.050	0.050	11/03/2015	ND	2.12	106	2.00	0.745	
Ethylbenzene*	<0.050	0.050	11/03/2015	ND	1.93	96.7	2.00	0.372	
Total Xylenes*	<0.150	0.150	11/03/2015	ND	6.13	102	6.00	0.140	
Total BTEX	<0.300	0.300	11/03/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 104 % 73.6-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	10/30/2015	ND	432	108	400	7.69	

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	10/30/2015	ND	210	105	200	1.78	
DRO >C10-C28	<10.0	10.0	10/30/2015	ND	218	109	200	1.40	

Surrogate: 1-Chlorooctane 98.5 % 35-147

Surrogate: 1-Chlorooctadecane 109 % 28-171


Sample ID: S4-2' (H502821-14)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	10/30/2015	ND	432	108	400	7.69	

Cardinal Laboratories

*=Accredited Analyte

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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: 10/28/2015
Reported: 11/04/2015
Project Name: MAGNUM PRONTO 32 STATE SWD #1
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/26/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia

Sample ID: S4-3' (H502821-15)

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	1760	16.0	10/30/2015	ND	400	100	400	11.3			

Sample ID: S4-4' (H502821-16)

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	7680	16.0	10/30/2015	ND	400	100	400	11.3			

Cardinal Laboratories

*=Accredited Analyte

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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: 10/28/2015
 Reported: 11/04/2015
 Project Name: MAGNUM PRONTO 32 STATE SWD #1
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/26/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: S5-1' (H502821-17)

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	11/03/2015	ND	1.92	95.9	2.00	0.538	
Toluene*	<0.050	0.050	11/03/2015	ND	2.12	106	2.00	0.745	
Ethylbenzene*	<0.050	0.050	11/03/2015	ND	1.93	96.7	2.00	0.372	
Total Xylenes*	<0.150	0.150	11/03/2015	ND	6.13	102	6.00	0.140	
Total BTEX	<0.300	0.300	11/03/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 73.6-140

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	10/30/2015	ND	400	100	400	11.3	

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	10/30/2015	ND	210	105	200	1.78		
DRO >C10-C28	<10.0	10.0	10/30/2015	ND	218	109	200	1.40		

Surrogate: 1-Chlorooctane 100 % 35-147

Surrogate: 1-Chlorooctadecane 110 % 28-171

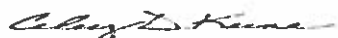
Sample ID: S5-2' (H502821-18)

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	10/30/2015	ND	400	100	400	11.3		

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2062

Company Name: COG Operating LLC

Project Manager: Lupe Carrasco

Address: 2208 West Main

City: Artesia

Phone #: (575) 748-6940

Project #:

Project Name: Magnum Pronto 32 State SWD #1

Project Location:

Sample Name: Lupe Carrasco

FOR LAB USE ONLY

P.O. #:

Company: COG Operating LLC

Attn: Robert McNeill

Address: 600 W Illinois

City: Midland

State: TX Zip: 79701

Phone #: (432) 221-0388

Fax #:

ANALYSIS REQUEST

Company Name: COG Operating LLC		P.O. #:	
Project Manager: Lupe Carrasco			
Address: 2208 West Main		Company: COG Operating LLC	
City: Artesia	State: NM	Zip: 88210	Attn: Robert McNeill
Phone #: (575) 748-6940	Fax #:	Address: 600 W Illinois	
Project #:	Project Owner:	City: Midland	
Project Name: Magnum Pronto 32 State SWD #1		State: TX	Zip: 79701
Project Location:		Phone #: (432) 221-0388	
Sample Name: Lupe Carrasco	Fax #:		
FOR LAB USE ONLY			
Lab I.D.	Sample I.D.		

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 analysis. All claims including those for negligence and any other claims whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analysis. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of data, 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.

Relinquished By:

Date: 10/26/15 Time: 11:30

Received By: Judy Garcia

Relinquished By:

Date:

Received By:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other: #54

FORM-006 R 2.0

Sample Condition: Cool Impact Yes ☒ No ☐

CHECKED BY: (initials) JG

Phone Result: ☐ Yes ☐ No Add'l Phone #:

Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS: 9ccarrasco@cardinal.com Run until chlorides fall below 1000 ppm

* Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

November 03, 2015

LUPE CARRASCO

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: MAGNUM PRONTO 32 STATE SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 10/28/15 11:30.

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:

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

 Received: 10/28/2015
 Reported: 11/03/2015
 Project Name: MAGNUM PRONTO 32 STATE SWD #1
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/26/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: S1-6' (H502822-01)

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	96.0	16.0	10/30/2015	ND	400	100	400	11.3			

Sample ID: S1-8' (H502822-02)

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	416	16.0	10/30/2015	ND	400	100	400	11.3			

Sample ID: S1-10' (H502822-03)

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	10/30/2015	ND	400	100	400	11.3			

Sample ID: S1-12' (H502822-04)

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	160	16.0	10/30/2015	ND	400	100	400	11.3			

Cardinal Laboratories

*=Accredited Analyte

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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: 10/28/2015
 Reported: 11/03/2015
 Project Name: MAGNUM PRONTO 32 STATE SWD #1
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/26/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: S1-13' (H502822-05)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/30/2015	ND	400	100	400	11.3	

Sample ID: S2-6' (H502822-06)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1500	16.0	10/30/2015	ND	400	100	400	11.3	

Sample ID: S2-8' (H502822-07)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	10/30/2015	ND	400	100	400	11.3	

Sample ID: S2-10' (H502822-08)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/30/2015	ND	400	100	400	11.3	

Sample ID: S2-12' (H502822-09)

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	10/30/2015	ND	400	100	400	11.3	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:COG OPERATING
LUPE CARRASCO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONEReceived: 10/28/2015
Reported: 11/03/2015
Project Name: MAGNUM PRONTO 32 STATE SWD #1
Project Number: NONE GIVEN
Project Location: NOT GIVENSampling Date: 10/26/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia**Sample ID: S3-6' (H502822-10)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/30/2015	ND	400	100	400	11.3	

Sample ID: S3-8' (H502822-11)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	10/30/2015	ND	400	100	400	11.3	

Sample ID: S3-10' (H502822-12)

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	10/30/2015	ND	400	100	400	11.3	

Sample ID: S3-12' (H502822-13)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	10/30/2015	ND	400	100	400	11.3	

Sample ID: S4-6' (H502822-14)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/30/2015	ND	400	100	400	11.3	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:COG OPERATING
LUPE CARRASCO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONEReceived: 10/28/2015
Reported: 11/03/2015
Project Name: MAGNUM PRONTO 32 STATE SWD #1
Project Number: NONE GIVEN
Project Location: NOT GIVENSampling Date: 10/26/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Judy Garcia**Sample ID: S4-8' (H502822-15)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/30/2015	ND	400	100	400	11.3	

Sample ID: S4-10' (H502822-16)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/30/2015	ND	400	100	400	11.3	

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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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

162

ANALYSIS REQUEST

BILL TO

P.O. #:

Company: COG Operating LLC

Attn: Robert McNeill

Address: 600 W Illinois

City: Midland

State: TX Zip: 79701

Phone #: (432) 221-0388

Fax #:

Company Name: COG Operating LLC

Project Manager: Lupe Carrasco

Address: 2208 West Main

City: Artesia

Phone #: (575) 748-6940

Project #:

Project Name: Magnum Pronto 32 State SWD #1

Project Location:

Sampler Name: Lupe Carrasco

FOR LAB USE ONLY

Lab I.D. Sample I.D.

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	BTEX	TPH	Chloride
S1-6'		X		GROUNDWATER			10/26/15				X
S1-8'		X		WASTEWATER			10/26/15				X
S1-10'		X		SOIL			10/26/15				X
S1-12'		X		OIL			10/26/15				X
S1-13'		X		SLUDGE			10/26/15				X
S2-6'		X		OTHER:			10/26/15				X
S2-8'		X		ACID/BASE:			10/26/15				X
S2-10'		X		ICE / COOL			10/26/15				X
S2-12'		X		OTHER:			10/26/15				X

PLEASE NOTE: Liability and Chain of Custody are the responsibility of the client. The client is responsible for any claims arising from the use of the sample. The client is responsible for the accuracy of the information provided. The client is responsible for the safety of the sample. The client is responsible for the security of the sample. The client is responsible for the integrity of the sample. The client is responsible for the confidentiality of the sample. The client is responsible for the ownership of the sample. The client is responsible for the disposal of the sample. The client is responsible for the transportation of the sample. The client is responsible for the storage of the sample. The client is responsible for the handling of the sample. The client is responsible for the use of the sample. The client is responsible for the results of the sample. The client is responsible for the interpretation of the sample. The client is responsible for the application of the sample. The client is responsible for the communication of the sample. The client is responsible for the documentation of the sample. The client is responsible for the archiving of the sample. The client is responsible for the retrieval of the sample. The client is responsible for the destruction of the sample. The client is responsible for the recovery of the sample. The client is responsible for the reuse of the sample. The client is responsible for the recycling of the sample. The client is responsible for the disposal of the sample. The client is responsible for the transportation of the sample. The client is responsible for the storage of the sample. The client is responsible for the handling of the sample. The client is responsible for the use of the sample. The client is responsible for the results of the sample. The client is responsible for the interpretation of the sample. The client is responsible for the application of the sample. The client is responsible for the communication of the sample. The client is responsible for the documentation of the sample. The client is responsible for the archiving of the sample. The client is responsible for the retrieval of the sample. The client is responsible for the destruction of the sample. The client is responsible for the recovery of the sample. The client is responsible for the reuse of the sample. The client is responsible for the recycling of the sample. The client is responsible for the disposal of the sample.

Relinquished By:

Date: 10/26/15

Received By: Judy Garcia

Relinquished By:

Date: 11/30/15

Received By: Judy Garcia

Delivered By: (Circle One)

Sampler - UPS - Bus - Other: #54 30C

Sample Condition

CHECKED BY: (Initials)

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Run until chlorides fall below 1000 ppm

Run until chlorides fall below 1000 ppm

Run until chlorides fall below 1000 ppm

FORM-006 R 2.0

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476



Page 8 of 8

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2416

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: Magnum Pronto 32 State SWD #1	Facility Type: Well	
Surface Owner: State	Mineral Owner:	API No. 30-025-41354

LOCATION OF RELEASE

Unit Letter F	Section 32	Township 19S	Range 32E	Feet from the 2300'	North/South Line North	Feet from the 2200'	East/West Line West	County Lea
------------------	---------------	-----------------	--------------	------------------------	---------------------------	------------------------	------------------------	---------------

Latitude 32.6163979 Longitude -103.7900543

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 89 bbls PW	Volume Recovered: 80 bbls PW
Source of Release: Wellhead nipple	Date and Hour of Occurrence: 8/24/2015 6:56 am	Date and Hour of Discovery: 8/24/2015 6:56 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Kellie Jones - NMOCD	
By Whom? Amanda Trujillo	Date and Hour: Mon 8/24/2015 6:34 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 a corroded nipple atop the wellhead. Vacuum trucks were dispatched to recover all standing fluids.

Describe Area Affected and Cleanup Action Taken.*

This release impacted the pad and nearby interim reclamation 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.

OIL CONSERVATION DIVISION

Signature: 	Approved by Environmental Specialist:	
Printed Name: Amanda Trujillo	Approval Date:	Expiration Date:
Title: Senior Environmental Coordinator	Conditions of Approval:	
E-mail Address: atrujillo@concho.com	Attached <input type="checkbox"/>	
Date: September 9, 2015 Phone: 575-748-6940		

* Attach Additional Sheets If Necessary

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

State of New Mexico
Energy Minerals and Natural Resources

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: COG Operating LLC	Contact: Robert McNeill	
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No. 432-230-0077	
Facility Name: Magnum Pronto 32 State SWD #1	Facility Type: Well	
Surface Owner: State	Mineral Owner:	API No. 30-025-41354

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	32	19S	32E	2300'	North	2200'	West	Lea

Latitude 32.6163979 Longitude -103.7900543

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 89 bbls PW	Volume Recovered: 80 bbls PW
Source of Release: Wellhead nipple	Date and Hour of Occurrence: 8/24/2015 6:56 am	Date and Hour of Discovery: 8/24/2015 6:56 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Kellie Jones - NMOCD	
By Whom? Amanda Trujillo	Date and Hour: Mon 8/24/2015 6:34 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 a corroded nipple atop the wellhead. Vacuum trucks were dispatched to recover all standing fluids.

Describe Area Affected and Cleanup Action Taken.*

This release impacted the pad and nearby interim reclamation area. Concho had the spill site sampled to delineate any possible contamination from the release and presented 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: 		OIL CONSERVATION DIVISION	
Printed Name: Lupe Carrasco		Approved by Environmental Specialist: 	
Title: Environmental Coordinator		Approval Date: 01/11/2016	Expiration Date: ///
E-mail Address: gcarrasco@concho.com		Conditions of Approval: ///	
Date: December 4, 2015 Phone: 575-689-3100		Attached <input type="checkbox"/> 1RP 3857	

* Attach Additional Sheets If Necessary