

November 5, 2014

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

Re: Continental A State Battery

Sec. 30, T17S-R29E Eddy County, NM

Mr. Mike Bratcher,

COG Operating LLC would like to submit for your consideration the enclosed work plan for the above captioned well. The plan is in response to the C-141 Initial report dated September 24, 2014.

Background

The release was due to a damaged valve on a valve manifold with 20 barrels of oil and 50 barrels of produced water released. All fluid was contained within the berm area and recovered through the use of a vacuum truck. Fluid recovery totaled 20 barrels of oil and 45 barrels of produced water. Initial excavation of the impacted area was approximately 4-6" in depth with all impacted material hauled to an approved NMOCD disposal facility.

The facility impacted was constructed on a caliche pad that is approximately 3 ½' higher in elevation than the surrounding well pad and battery. All production equipment, valve manifolds, and chemical tanks sit on this bermed pad.

Groundwater

Based on the Chevron Trend Maps, the release area would be classified at a site ranking of Zero with depth to groundwater at greater than 175'.

Soil Assessment and Analytical Results

Two sample points (S1 & S2) were selected within the berm area. Sample points were chosen based on the complexity of flow lines, electric conduits, and major pooling area. Samples were taken at depths of 1' and 2' for each sample point labeled on the attached Site Diagram. S2 was delineated further to a depth of 3' and 5' The Site Diagram includes a Sample Summary Table and an outline of the release and associated lines.

Sample Results show TPH and BTEX levels to be non-detect for both sample points and chloride levels to be elevated for S2 at depths of 1' and 2'. A copy of the Analytical Results is attached for your consideration.

S1	GRO	DRO	TPH	BTEX	Cl-
1'	ND	66.6	66.6	ND	1310
2'	ND	ND	ND	ND	112
S2	GRO	DRO	ТРН	BTEX	Cl-
1'	ND	ND	ND	ND	7680
2'	ND	ND	ND	ND	4280
3'	NA	NA	NA	NA	ND
5'	NA	NA	NA	NA	48

Work Plan

COG Operating LLC proposes no further excavation of the area based on the amounts of oil recovered, the initial excavation of 4-6" of impacted material, TPH and BTEX levels within RRAL's for a site ranking of zero, and pad elevation.

The foundation for the production units is built 3 ½ above ground level. There is approximately 3 of clean material between the bottom of the spill and native soils. This is an adequate barrier for protection of both native soils and ground water.

If there are no objections or further stipulations, COG Operating LLC would like to begin the backfill process based on approval of this work plan and is also requesting closure of the site. Please feel free to contact me with any questions or concerns at (575) 748-6933.

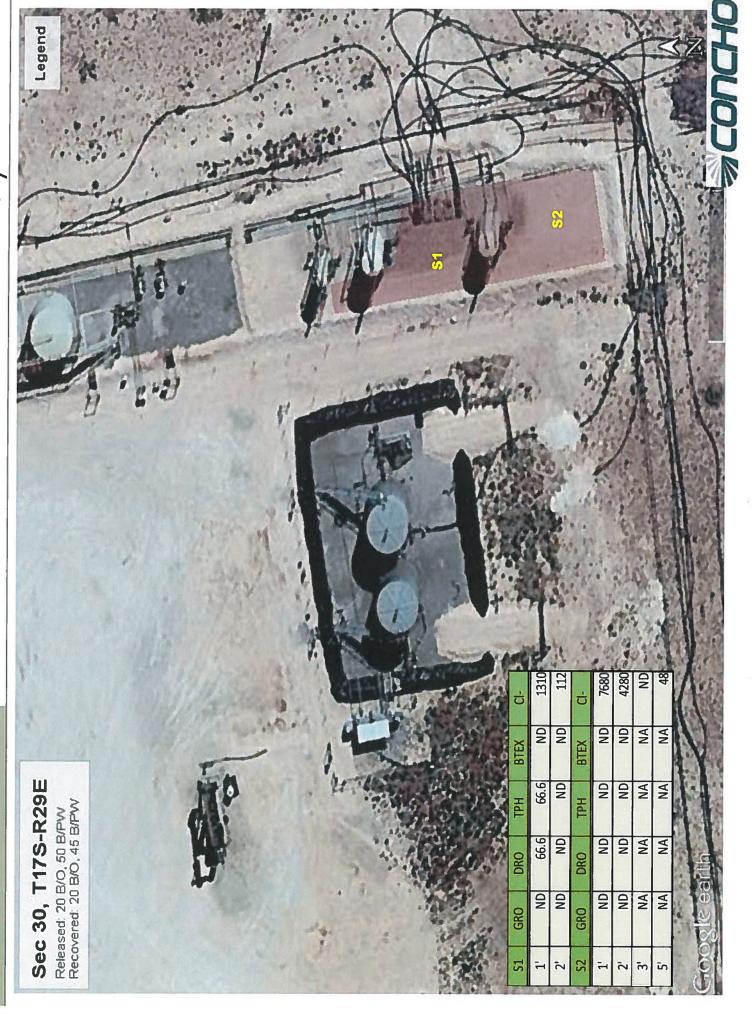
Sincerely,

Lupe Carrasco Environmental Coordinator

Enclosure(s): Site Diagram

Analytical Results C-141 Initial (Copy)

C-141 Final





October 14, 2014

LUPE CARRASCO

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: CONTINENTAL A STATE BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/09/14 13:30.

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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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



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

Received: Reported:

RTEY 80218

10/09/2014

10/14/2014

CONTINENTAL A STATE BATTERY

Project Number: Project Location:

Project Name:

NONE GIVEN NONE GIVEN

ma/ka

Sampling Date:

10/08/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Kathy Perez

Sample ID: S1 - 1' (H403103-01)

mg/	kg	Analyze	d By: ms					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	10/13/2014	ND	1.91	95.3	2.00	3.60	
<0.050	0.050	10/13/2014	ND	1.81	90.4	2.00	3.47	
<0.050	0.050	10/13/2014	ND	1.72	86.1	2.00	3.32	
<0.150	0.150	10/13/2014	ND	5.17	86.1	6.00	3.57	
<0.300	0.300	10/13/2014	ND					
103 9	61-154							
mg/kg		Analyzed By: AP						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
1310	16.0	10/13/2014	ND	416	104	400	3.92	
mg/	kg	Analyze	d By: ms					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	10/11/2014	ND	178	88.9	200	0.0506	
66.6	10.0	10/11/2014	ND	188	94.0	200	0.737	
110 %	6 47.2-157	7	entiti. Piine					
120 0	6 52.1-176							
	Result <0.050 <0.050 <0.050 <0.150 <0.300 103 9 mg/ Result 1310 mg/ Result <10.0 66.6	<0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150 <0.300 0.300 103 % 61-154 mg/kg Result Reporting Limit 1310 16.0 mg/kg Result Reporting Limit <10.0 10.0 66.6 10.0	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank BS <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

Analyzed By: me

Cardinal Laboratories

*=Accredited Analyte

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

Received:

BTEX 8021B

10/09/2014

Reported:

10/14/2014

Project Name:

CONTINENTAL A STATE BATTERY

Project Number:

NONE GIVEN

Project Location:

NONE GIVEN

mg/kg

Sampling Date:

10/08/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Kathy Perez

Sample ID: S1 - 2' (H403103-02)

DIEX GOZID	ilig	/ Kg	Milalyze	u by. IIIs		000	22		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2014	ND	1.91	95.3	2.00	3.60	
Toluene*	<0.050	0.050	10/13/2014	ND	1.81	90.4	2.00	3.47	
Ethylbenzene*	<0.050	0.050	10/13/2014	ND	1.72	86.1	2.00	3.32	
Total Xylenes*	<0.150	0.150	10/13/2014	ND	5.17	86.1	6.00	3.57	
Total BTEX	<0.300	0.300	10/13/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 61-154						-1	100
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	10/13/2014	ND	416	104	400	3.92	
TPH 8015M	mg/kg		Analyzed By: ms				20		
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			94.0	200	0.737	
Surrogate: 1-Chlorooctane	100 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	105	52.1-176	5						

Analyzed By: ms

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 whistoevers 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 clamages, 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 claims 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.





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

Received:

10/09/2014

Reported:

10/14/2014

Project Name:

CONTINENTAL A STATE BATTERY

Project Number:

NONE GIVEN

Project Location:

NONE GIVEN

Sampling Date:

10/08/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Kathy Perez

Sample ID: S2 - 1' (H403103-03)

BTEX 8021B	mg/	kg	Analyze	d 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	1.91	95.3	2.00	3.60	
Toluene*	<0.050	0.050	10/13/2014	ND	1.81	90.4	2.00	3.47	
Ethylbenzene*	<0.050	0.050	10/13/2014	ND	1.72	86.1	2.00	3.32	
Total Xylenes*	<0.150	0.150	10/13/2014	ND	5.17	86.1	6.00	3.57	
Total BTEX	<0.300	0.300	10/13/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	6 61-154					16)		
Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7680	16.0	10/13/2014	ND	416	104	400	3.92	
TPH 8015M	mg/kg		Analyzed By: ms			_			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	106 %	6 47.2-15	7				3 -018		
Surrogate: 1-Chlorooctadecane	111 %	52.1-170	5						

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*=Accredited Analyte

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

Received:

10/09/2014

Reported:

10/14/2014

Project Name:

CONTINENTAL A STATE BATTERY

Project Number:

NONE GIVEN

Project Location:

NONE GIVEN

Sampling Date:

10/08/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Kathy Perez

Sample ID: S2 - 2' (H403103-04)

BTEX 8021B	mg,	kg	Analyze	ed 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	1.91	95.3	2.00	3.60	
Toluene*	<0.050	0.050	10/13/2014	ND	1.81	90.4	2.00	3.47	
Ethylbenzene*	<0.050	0.050	10/13/2014	ND	1.72	86.1	2.00	3.32	
Total Xylenes*	<0.150	0.150	10/13/2014	ND	5.17	86.1	6.00	3.57	
Total BTEX	<0.300	0.300	10/13/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	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	4280	16.0	10/13/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d 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	110 9	6 47.2-157	7						
Surrogate: 1-Chlorooctadecane	1129	6 52.1-176	5						

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ND

Notes and Definitions

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

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories

*=Accredited Analyte

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Celegit Keena



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

Company Name: COG Operating LLC		57LZ 70	9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ANALYSIS REQUEST
		P.O. #:		
\$		Company: COG Operating LLC	ГС	
City: Artesia State: NM	Zip 88210	Attn: Robert McNeill		
Phone #: (575) 748-6940 Fax #:		Address: 600 W Illinois		
Project #: Projec	Project Owner:	City: Midland		
Project Name: Continental A State Battery		State: TX Zip: 79701		
Project Location:		Phone #: (432) 221-0388		
Sampler Name: Lupe Carrasco		Fax #:		
	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: DA	BTEX TPH	Chloride
D S1-1		10/8/14	×	×
(SL S1-2)		10/8/14	×	×
5 S2-1		10/8/14	×	×
04 82-2		10/8/14	×	×
PLEASE NOTE: Liability and Damages: Cardinel's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be firsted to the amount pand by the client for the snaying and received by Carding within 30 days after completion of the epidicable snays as All claims including those for negligence and any other cause whatstanever shall be deemed waved unless made in writing and received by Carding within 30 days after completion of the epidicable snaying as All claims including those for negligence and any other cause whatstanever shall be deemed waved unless made in writing and received by Carding within 30 days after completion of the annual part of the cardinal states of the snay of the cardinal states of the	re remedy for any claim arising whether based in contract bever shall be deemed waived unless made in writing and	act or toot, shall be furnised to the amount pand by the client for the and received by Cardinal within 30 days after completion of the attraction of the angular form	client for the ution of the applicable	

Relinquished By:

Date:

Received Bys

Time:

Three

Received By

Phone Result:
Fax Result:
REMARKS: 9

☐ Yes ☐ No Add'l Phone
☐ Yes ☐ No Add'l Fax #:
☐Carrasco@concho.com

Add'l Phone #:

atrujillo@concho.com

Sampler - UPS - Bus - Other: Delivered By: RIGircle One)

0000

Sample Condition
Cool Intact
Pres Pres

CHECKED BY:
(Initials)



October 20, 2014

LUPE CARRASCO

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: CONTINENTAL A STATE BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/16/14 11:00.

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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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



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

Received: Reported: 10/16/2014

10/20/2014

CONTINENTAL A STATE BATTERY

Project Number:

NONE GIVEN

Project Location:

Project Name:

NONE GIVEN

Sampling Date:

Sampling Type:

10/08/2014 Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Kathy Perez

Sample ID: S2-3' (H403183-01)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte

Analyte

Reporting Limit Result

Analyzed

Method Blank

BS

% Recovery True Value QC RPD

Qualifier

Chloride

<16.0 16.0 10/17/2014

ND

416

400

7.41

Sample ID: S2-5' (H403183-02)

Chioride, SM4500Cl-B

mg/kg

Analyzed By: AP

Chloride

Result Reporting Limit Analyzed 48.0 16.0 10/17/2014 Method Blank ND

416

% Recovery 104

104

True Value QC 400

RPD 7.41 Qualifier

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*=Accredited Analyte

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Celeg T. Kuna-



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 L. Keina



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

	(3/3) 393-2320 FAA (3/3) 393-24/0	200		2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0			ANALVEIG DECLIEST
Company Name:	COG Operating LLC			1000	I		אואארוטוט אוואסרטי
Project Manager:	Lupe Carrasco		P.O. #:				
Address: 2208	2208 West Main		Company: CO	COG Operating LLC			
City: Artesia	State: NM	Zip 88210	Attn: Ro	Robert McNeill			
Phone #:	(575) 748-6940 Fax #:		Address:	600 W Illinois			
Project #:	Project Owner:	er:	City:	Midland			
ame:	Continental A State Battery	ere de la companya de	State: TX Zip	Zip: 79701			
Project Location:			Phone #: (432) 221-0388	21-0388		·	
Sampler Name:	Lupe Carrasco		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	BTEX	TPH Chloride	
	S2-3'			10/8/14		×	
ಖ.	S2-5'			10/8/14		×	
PIFASE NOTE: LIMBY II	od Darmones. Continuit's labelity and electr's exclusive remedy	for any clasm artaing whether based in confi	ract or tort, shall be smited to fi	he amount paid by the client to	of the second	-	
PLEASE NOTE: Usbilly as	PLEASE WOTE. Liability and Damages. Cerdinuffs tability and client's exclusive renedy for any clasm arising whether based in contract or tort, shall be limited to the amount paid by the client for the	for any clasm arising whether based in confi	ract or tort, shall be limited to the	he amount paid by the obert to	7	-	

analyses. All cisims including those for negligence and any other varvice. In no event shall Cardinal be liable for incidental or corae affiliates or successors aming out of or related to the performance Relinquished by: Relinquished By: Sampler - UPS - Bus - Other: Delivered By: (Circle One) equental damages, including without limitation, business effect Time: ever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the ap 5.80 Received By Sample Condition
Cool Intact
Yes A Yes
No No No or less of profits incurred by client, its subsidiaries any of the above stated reasons or otherwise

Phone Result:

Fax Result:

REMARKS: atrujillo@concho.com gcarrasco(□ No Add'l Phone #
□ No Add'l Fax #:
o@concho.com Add'i Phone #:



October 20, 2014

LUPE CARRASCO

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: CONTINENTAL A STATE BATTERY

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Cardinal Laboratories is accreditated 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.

Celey D. Keine

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



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

Received: Reported: 10/16/2014

10/20/2014

Project Name:

CONTINENTAL A STATE BATTERY

Project Number: Project Location: NONE GIVEN

NONE GIVEN

Sampling Date:

10/08/2014

Sampling Type:

Soil Cool & Intact

Sampling Condition: Sample Received By:

Kathy Perez

Sample ID: S2-3' (H403183-01)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte

Result Reporting Limit Analyzed

Method Blank

BS % Recovery

True Value QC

RPD 7.41

RPD

Qualifier

Chloride

<16.0

16.0

10/17/2014

ND

416

104

400

Sample ID: S2-5' (H403183-02)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Chloride

Analyte Result Reporting Limit Analyzed 48.0 16.0 10/17/2014 Method Blank ND

BS 416 % Recovery 104

True Value QC 400

Qualifier

7.41

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTTE: 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. any other cause whatsoever shall be deemed walved 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.

Celeg Thema-

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

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 whitesowers 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. Keena



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

	(5/5) 393-2326 FAA (3/3) 393-24/6	V (3/3) 333-24/6		8	- 2	1
Company Name:	COG Operating LLC				ANALTOIS NEWCEST	-
Project Manager:	Lupe Carrasco		P.O. #			
Address: 2208	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			
ame:	Continental A State Battery	NA CONTRACTOR OF THE CONTRACTO	State: TX Zip: 79701			
Project Location:			Phone #: (432) 221-0388			
Sampler Name:	Lupe Carrasco		Fax#:			
FOR LAB USE ONLY			IX PRESERV. SAMPLING			
Lab I.D. HyD3183	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: DATE	втех трн	Chloride	
-	S2-3'				×	
ຍ.	S2-5'		10/8/14		×	
PLEASE NOYE: Liability and Damages analyses All datins including those for re- service, in no event shall Cardinal be its	d Damages. Cerdinal's liability and of gives on maging and any other prince and any other prince to be liable for projected or cons.	PLEASE NOTE: Lability and Damages. Cardinal's lability and client's exclusive remedy for any claim arising whether based in contrac analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing an service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions,	or fort, shall be limited to the amount paid d regimed by Cardinal within 30 days after that of United the profits incurred by cl	A for the of the applicable uddates.		
Relinquished By:	tellinquished By:	Date:	Phone Result: Fax Result: REMARKS: attuillo@con	Result:	s □ No Add'i Phone #: s □ No Add'i Fax #: co@concho.com	
Relinquished by:	•	Zecenved				
Delivered By: (Circle One) FORM 506 R 2 0 Sampler - UPS - Bus - Other	Delivered By: (Circle One) FORM-986 R 20 Sampler - UPS - Bus - Other:	Sample Condition 5.8° Cool Tintact Cycs la Yes No No No	Sample Condition CHECKED BY: Cool_fintact (lightists) Tyes larges			
Contract of the last of the la						

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

State of New Mexico Energy Minerals and Natural Resources

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

Form C-141

Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

1220 S. St. Francis Dr., Santa Fe, NM 87505 **Release Notification and Corrective Action OPERATOR** Initial Report Final Repo Name of Company: COG Operating LLC Contact: Robert McNeill Address: 600 West Illinois Avenue, Midland TX 79701 Telephone No. 432-230-0077 Facility Name: Continental A State Battery Facility Type: Battery Surface Owner: State Mineral Owner: State API No. 30-015-29696 LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County C 30 17S 29E 330 North 1409 West Eddy Latitude N 32'48.739 Longitude W104'06.993' NATURE OF RELEASE Type of Release: Volume of Release: Volume Recovered: Oil and Produced Water Oil 20 bbls; PW 50 bbls Oil 20 bbls; PW 45 bbls Source of Release: Date and Hour of Discovery: Date and Hour of Occurrence: Valve 9/9/2014 7:00 am 9/9/2014 7:00 am Was Immediate Notice Given? If YES, To Whom? Mike Bratcher - OCD By Whom? Amanda Trujillo Date and Hour: 9/10/2014 10:49 am Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ☒ No If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* This release was caused by a damaged valve and contained inside the bermed area. Vacuum trucks were dispatched to recover standing fluids. Describe Area Affected and Cleanup Action Taken.* The release was contained within the battery. 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 Tuisle Signature: Approved by Environmental Specialist: Printed Name: Amanda Trujillo Title: Senior Environmental Coordinator Approval Date: **Expiration Date:** E-mail Address: atrujillo@concho.com Conditions of Approval: Attached | September 24, 2014 Phone: 575-748-6940

^{*} Attach Additional Sheets If Necessary

District I

1625 N. French Dr., Hobbs, NM 88240 District 11 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV

State of New Mexico Energy Minerals and Natural Resources

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

Attached

Form C-141

Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr.

1220 S. St. Fran	cis Dr., Santa	Fe, NM 87505		Sa	ınta F	e, NM 875	05					
			Rele	ease Notific	atio	n and Co	rrective A	ction		101-2-5		
						OPERA	ГOR		Initia	l Report	\boxtimes	Final Report
Name of Co	mpany: C	OG Operati	ng LLC			Contact: Ro	bert McNeill	•				
Address: 60	0 West Illi	nois Avenue	, Midlan	d TX 79701		Telephone 1	No. 432-230-007	77				
Facility Nar	ne: Contin	ental A State	Battery			Facility Typ	e: Battery			200-110		
Surface Ow	ner: State		-	Mineral C)wner:	State			API No.	30-015-2	9696	
				TOCA	TIO	N OF REI	FASE					
Unit Letter	Section	Township	Range	Feet from the		h/South Line	Feet from the	Fast/W	est Line		Coun	tv
С	30	17S	29E	330		North	1409	I	est		Eddy	
				Latitude N 3	2'48.73	39 Longitud	e W104'06.993'					
				NAT	TIRE	OF RELI	EASE					
Type of Rele	ase:			IMI	UKE	Volume of		T	Volume R	ecovered:		
Oil and Produ	uced Water						; PW 50 bbls		Oil 20 bbls	s; PW 45 bl		
Source of Re	lease:						lour of Occurrence			lour of Dis	covery	•
Valve 9/9/2014 7:00 am 9/9/2014 7:00 am Was Immediate Notice Given? If YES, To Whom?												
☐ Yes ☐ No ☐ Not Required ☐ Mike Bratcher – OCD												
By Whom? Amanda Trujillo Date and Hour: 9/10/2014 10:49 am												
Was a Water		hed?					lume Impacting tl		course.			
			Yes 🛚	No								
If a Watercou	irse was Imp	oacted, Descri	be Fully.*	•								
Describe Cau												
This release fluids.	was cause	d by a dama	ged valve	e and contained	inside	the bermed a	rea. Vacuum tru	ucks we	re dispatc	hed to rec	over st	anding
Hulas.												
Describe Are												
				ncho will have th for approval prio			delineate any pos	ssible coi	ntaminatior	i from the r	elease	and we will
present a rem	caration wo	ik plan to the	NWIOCD	tor approvar prio	i to any	y significant re	mediation work.					
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							nd perform correct arked as "Final Re					
							on that pose a thre					
							e the operator of r					
federal, state,	or local law	vs and/or regu	lations.									
							OIL CONS	SERVA	<u>ATION I</u>	DIVISIO	<u>N</u>	
Signature:	71-1-	(0										
						Approved by	Environmental Sp	ecialist:				
Printed Name	: Lupe Car	rasco										
Title: Enviro	nmental Co	ordinator				Approval Dat	e:	E	xpiration D	ate:		
								1 2				
E-mail Addre	ss: gcarrasc	o@concho.co	m			Conditions of	Approval:			A 44 - a la a 4		

Phone: 575-748-6940

October 21, 2014 * Attach Additional Sheets If Necessary