

[Dakota Neel]
[HSE Coordinator]

March 2, 2019

Bradford Billings Oil Conservation Division Santa Fe

Jim Amos Bureau of Land Management, CFO 620 E. Green Street Carlsbad, NM 88220

Re: Closure Request

MC Southeast Battery API #: 30-025-35252 RP#: 1RP-4917

ΚΙ π. 1ΚΙ -4/1/

Unit Letter H Section 21, Township 17S, Range 32E

Lea County, NM

Mr. Billings/Mr. Amos,

COG Operating, LLC (COG) is pleased to submit for your consideration the following closure request for the MC Southeast Battery. This release occurred on January 4, 2018. Following the releases a site assessment of the impacted soils was conducted. A remediation work plan was submitted to and subsequently approved by the New Mexico Oil Conservation Division (NMOCD) and Bureau of Land Management (BLM). A copy of the approved work plan is attached.

BACKGROUND

The MC Southeast Battery is located in Unit Letter H, Section 21, Township 17 South and Range 32 East in Lea County, New Mexico. More specifically the latitude and longitude for this release are 32.820527 North and -103.765465 West.

On January 4, 2018, a gasket on the heater treater failed resulting in the release of approximately ten (10) barrels (bbls) of oil and one-hundred and eighty (180) bbls of produced water. The overspray impacted the lined tank battery and the adjacent pasture. A vacuum truck was able to recover approximately five (5) bbls of oil and one-hundred and seventy-five (175) bbls of produced water.

Remediation activities were conducted in accordance with the NMOCD/BLM approved workplan. Confirmation samples for the areas represented by T-3 and T-4 were taken and can be found in Appendix 1.

PROPOSED REMEDIAL ACTIONS

- The impacted gravel within the lined facility has been removed and hauled to an NMOCD
 approved solid waste disposal facility. The liner was inspected for damage and found to have
 structural integrity to retain free fluids. The gravel has been replaced.
- The impacted area in the vicinity of sample location T-3 was excavated to a depth of 1-foot BGS.
- The impacted area in the vicinity of sample location T-4/AH-4 was excavated to a depth of 5feet BGS.
- All of the excavated material was hauled to an NMOCD approved solid waste disposal facility.
- The excavated area was backfilled with clean "like" material, contoured to match the surrounding terrain and will be seeded with BLM seed mixture #2.

CLOSURE REQUEST

COG Operating, LLC respectfully requests closure approval for 2RP-4917. Should you have any questions or concerns please do not hesitate to contact me.

Sincerely,

Dakota Neel

HSE Coordinator

Sahot Red

Enclosed:

Appendix I: Confirmation Analytical Results

Appendix II: Work Plan (Copy) Appendix III: Initial C-141 (Copy)

Appendix IV: Final C-141

APPENDIX I



July 06, 2018

DAKOTA NEEL

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: MC SOUTHEAST BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/02/18 11:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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. Keene

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 DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: 07/02/2018 Reported: 07/06/2018

Project Name: MC SOUTHEAST BATTERY

Project Number: NONE GIVEN

Project Location: CONCHO - LEA COUNTY

Sampling Date: 06/25/2018

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: T3 - BTM (H801812-01)

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	07/04/2018	ND	1.82	91.2	2.00	1.34	
Toluene*	<0.050	0.050	07/04/2018	ND	1.84	91.8	2.00	2.02	
Ethylbenzene*	<0.050	0.050	07/04/2018	ND	1.80	90.0	2.00	1.09	
Total Xylenes*	<0.150	0.150	07/04/2018	ND	5.57	92.8	6.00	0.840	
Total BTEX	<0.300	0.300	07/04/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/05/2018	ND	432	108	400	0.00	
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	07/04/2018	ND	197	98.3	200	5.35	
DRO >C10-C28*	<10.0	10.0	07/04/2018	ND	210	105	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	07/04/2018	ND					
Surrogate: 1-Chlorooctane	87.3	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	92.3	% 37.6-14	7						

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 whistoever 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.

Celeg D. Freene



Analytical Results For:

COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: 07/02/2018 Reported: 07/06/2018

Project Name: MC SOUTHEAST BATTERY

Project Number: NONE GIVEN

Project Location: CONCHO - LEA COUNTY

Sampling Date: 06/25/2018

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: T4 - BTM (H801812-02)

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	07/04/2018	ND	1.82	91.2	2.00	1.34	
Toluene*	<0.050	0.050	07/04/2018	ND	1.84	91.8	2.00	2.02	
Ethylbenzene*	<0.050	0.050	07/04/2018	ND	1.80	90.0	2.00	1.09	
Total Xylenes*	<0.150	0.150	07/04/2018	ND	5.57	92.8	6.00	0.840	
Total BTEX	<0.300	0.300	07/04/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.8-14	2						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/05/2018	ND	432	108	400	0.00	
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	07/04/2018	ND	197	98.3	200	5.35	
DRO >C10-C28*	<10.0	10.0	07/04/2018	ND	210	105	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	07/04/2018	ND					
Surrogate: 1-Chlorooctane	92.5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	99.3	% 37.6-14	7						

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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received: 07/02/2018 Reported: 07/06/2018

Project Name: MC SOUTHEAST BATTERY

Project Number: NONE GIVEN

Project Location: CONCHO - LEA COUNTY

ma/ka

Sampling Date: 06/25/2018

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: T3 / T4 (H801812-03)

RTFY 8021R

B1EX 8021B	mg/	кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/04/2018	ND	1.82	91.2	2.00	1.34	
Toluene*	<0.050	0.050	07/04/2018	ND	1.84	91.8	2.00	2.02	
Ethylbenzene*	< 0.050	0.050	07/04/2018	ND	1.80	90.0	2.00	1.09	
Total Xylenes*	<0.150	0.150	07/04/2018	ND	5.57	92.8	6.00	0.840	
Total BTEX	<0.300	0.300	07/04/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	69.8-14.	2						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	07/05/2018	ND	432	108	400	0.00	
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	07/04/2018	ND	197	98.3	200	5.35	
DRO >C10-C28*	<10.0	10.0	07/04/2018	ND	210	105	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	07/04/2018	ND					
Surrogate: 1-Chlorooctane	85.4	% 41-142							
Surrogate: 1-Chlorooctadecane	92.2	% 37.6-14	7						

Applyzod By: MC

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 whistoever 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



Analytical Results For:

COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: 07/02/2018 Reported: 07/06/2018

Project Name: MC SOUTHEAST BATTERY

Project Number: NONE GIVEN

Project Location: CONCHO - LEA COUNTY Sampling Date: 06/25/2018

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: T4 - EAST (H801812-04)

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	07/04/2018	ND	1.82	91.2	2.00	1.34	
Toluene*	<0.050	0.050	07/04/2018	ND	1.84	91.8	2.00	2.02	
Ethylbenzene*	<0.050	0.050	07/04/2018	ND	1.80	90.0	2.00	1.09	
Total Xylenes*	<0.150	0.150	07/04/2018	ND	5.57	92.8	6.00	0.840	
Total BTEX	<0.300	0.300	07/04/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	69.8-14	2						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/05/2018	ND	432	108	400	0.00	
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	07/04/2018	ND	197	98.3	200	5.35	
DRO >C10-C28*	<10.0	10.0	07/04/2018	ND	210	105	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	07/04/2018	ND					
Surrogate: 1-Chlorooctane	82.7 % 41-142		ı						
Surrogate: 1-Chlorooctadecane	88.0	% 37.6-14	7						

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



Analytical Results For:

COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: 07/02/2018 Reported: 07/06/2018

Project Name: MC SOUTHEAST BATTERY

Project Number: NONE GIVEN

Project Location: CONCHO - LEA COUNTY Sampling Date: 06/25/2018

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: T4 - WEST (H801812-05)

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	07/04/2018	ND	1.82	91.2	2.00	1.34	
Toluene*	<0.050	0.050	07/04/2018	ND	1.84	91.8	2.00	2.02	
Ethylbenzene*	<0.050	0.050	07/04/2018	ND	1.80	90.0	2.00	1.09	
Total Xylenes*	<0.150	0.150	07/04/2018	ND	5.57	92.8	6.00	0.840	
Total BTEX	<0.300	0.300	07/04/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	69.8-14	2						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/05/2018	ND	432	108	400	0.00	
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	07/04/2018	ND	197	98.3	200	5.35	
DRO >C10-C28*	<10.0	10.0	07/04/2018	ND	210	105	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	07/04/2018	ND					
Surrogate: 1-Chlorooctane	80.7 % 41-142		ı						
Surrogate: 1-Chlorooctadecane	83.6	% 37.6-14	7						

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. Keine



Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

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 whistoever 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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Sampler - UPS -	Delivered By: (Circle One)	Relinquished By:		Relinquished By:	service. In no event shall Card affiliates or successors arising	PLEASE NOTE: Liability and I analyses. All claims including t			U	4	w	N	-	H861812	Lab I.D.	FOR LAB USE ONLY	Sampler Name:	Project Location:	Project Name:	Project #:	Phone #:	City: Artesia	Address: 2407	Project Manager:	Company Name:
Bus - Other:	(Circle One)		7		inal be liable for incidental or cout of or related to the perform	Damages. Cardinal's liability an those for negligence and any o			m-11.	. T4 . E.	- T3/T	· T4- B	· T3 - B		Sample I.D.		Dakota Neel		MC SOUTH		(575) 746-2010		2407 Pecos Avenue	Dakota Neel	COG Operating LLC
Possetia	Time:	Jire:	7-2-19	Date:	service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	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.		(a)	250	757	÷	イス	らファ		Ĭ.D.				EAST	Project Owner:	Fax #:	State: NM			LLC
000	20	Received By		Received By:	without limitat cardinal, regard	iny claim arising deemed waive									OR (C)O	MP.			KZZZZY 8	1		Zip			
Cool Intact LYes Tes No No	Sample Condition	ed By:	Brunk	ed By:	ion, business interruptions, lless of whether such claim	g whether based in contract d unless made in writing an			**	×	х	x	۸.		NDWATER WATER	MATRIX			V		80	88210			
1	ion CHECKED BY:	Mount		1,0	loss of use, or loss of pro	t or tort, shall be limited to d received by Cardinal w			¢	×	*	~	Х	OTHER ACID/BA ICE / CO OTHER	ASE: OOL	PRESERV.	Fax #:	Phone #: (43:	State: TX	City:	Address:	Attn:	Company:	P.O. #:	81
als)	ED BY:	A CONTRACTOR OF THE PROPERTY O	1	-	fits incurred by above stated re	the amount pa			Ļ		J.	سي.	81-52-19	DATE		SAMPLING		(432) 221-0388	Zip: 79701	Midland	600 W Illinois	Robert McNeill	COG Operating LLC		BILL TO
	,	dneel2@concho.com	REMARKS:	Phone Result:	client, its subsidiarie easons or otherwise	id by the client for the			1			1	9:00.Am	TIME		ING		ω	2	۵	Illinois	Neill	ating LLC		
		oncho			s,	le applicable			×	汷	X	×	×	BTEX											1
	' 0	.com	Tes	□ Yes					×	×	Х	×	4	TPH											
	Stop runni		- 1					4	X	×	Je	Х	Y	Chloride	9		= 3,			-					
(ing Chlori		Add	Add'l		ŀ		1																	ANA
	ides wher		Add I Fax #:	Add'l Phone #:											(C)										ANALYSIS
Q	Stop running Chlorides when <600 mg/kg					-																			REQUEST

APPENDIX II



[Sheldon L. Hitchcock]
[HSE Coordinator]

April 19, 2018

Olivia Yu Oil Conservation Division, District 1 1625 N. French Dr. Hobbs, NM 88240

Henryetta Price Bureau of Land Management, CFO 620 E. Green Street Carlsbad, NM 88220

APPROVED

By Olivia Yu at 4:03 pm, May 01, 2018

NMOCD approves of the delineation completed for 1RP-4904. Confirmation sidewalls and bottoms required for the areas represented by T-3 and T-4.

Re: Work Plan

MC Southeast Battery API #: 30-025-35252 RP#: 1RP-4917

Unit Letter H Section 21, Township 17S, Range 32E

Lea County, NM

Ms. Yu/Ms. Price,

COG Operating, LLC (COG) is pleased to submit for your consideration the following remediation work plan for the MC Southeast Battery. This plan is in response to an oil and produced water release that occurred on January 4, 2018. Subsequent to the release a C-141 initial report was approved by the New Mexico Oil Conservation Division (NMOCD) on January 8, 2018

BACKGROUND

The MC Southeast Battery is located in Unit Letter H, Section 21, Township 17 South and Range 32 East in Lea County, New Mexico. More specifically the latitude and longitude for this release are 32.820527 North and -103.765465 West.

On January 4, 2018, a gasket on the heater treater failed resulting in the release of approximately ten (10) barrels (bbls) of oil and one-hundred and eighty (180) bbls of produced water. The overspray impacted the lined tank battery and the adjacent pasture. A vacuum truck was able to recover approximately five (5) bbls of oil and one-hundred and seventy-five (175) bbls of produced water.

On February 15, 2018 COG personnel conducted a site assessment and soil sampling in order to define the area in the pasture that was impacted by overspray. Upon receipt of analytical data from the soil sampling event that took place on February 15, 2018 it was determined that further vertical delineation would be required at sample location T-4. On March 20, 2018, a hand auger was utilized to further vertically delineate this sample location (labeled AH-4). (Site diagram Appendix I)

April 19, 2018

GROUNDWATER AND SITE RANKING

According to the New Mexico Office of the State Engineer (NMOSE) groundwater in the project vicinity is approximately eighty-one (81) feet below ground surface (BGS) (Appendix II). No water well or surface water was observed within one-thousand (1,000) feet of the release site. Therefore the site ranking for this release is ten (10) based on the following:

Depth to groundwater 50-100-feet
Distance to surface water body >1000-feet
Wellhead Protection Area >1000-feet

Analytical Results

2/15/2018

Sample ID	Depth (feet)	Benzene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)	Total TPH (mg/kg)
T-1	0	< 0.002	< 0.002	394	164
T-2	0			667	388
T-2	1		-	21.6	
T-3	0			1110	47.1
T-3	1			324	
T-4	0	< 0.0398	46.0	7110	10100
T-4	1	-	-	4010	
T-4	2			3670	
T-5	0	< 0.002	< 0.002	134	17.7

⁽⁻⁻⁾ Analysis not requested

March 20, 2018

Sample ID	Depth (feet)	Benzene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)	Total TPH (mg/kg)
AH-4	3	< 0.050	< 0.300	175	14.7
AH-4	4	< 0.050	< 0.300	1600	447.1
AH-4	5	< 0.050	< 0.300	13.4	<10.0

PROPOSED REMEDIAL ACTIONS

- The impacted gravel within the lined facility has been removed and hauled to an NMOCD approved solid waste disposal facility. The liner has been inspected for damage and found to have structural integrity to retain free fluids. The gravel has been replaced.
- The impacted area in the vicinity of sample location T-3 will be excavated to a depth of 1-foot BGS.
- The impacted area in the vicinity of sample location T-4/AH-4 will be excavated to a depth of 5-feet BGS.
- All of the excavated material will be hauled to an NMOCD approved solid waste disposal facility.
- The excavated area will be backfilled with clean "like" material, contoured to match the surrounding terrain and seeded with BLM seed mixture #2.

Should you have any questions or concerns please do not hesitate to contact me.

Sincerely,

Sheldon L. Hitchcock

Sheldon quitam

HSE Coordinator

slhitchcock@concho.com

Enclosed:

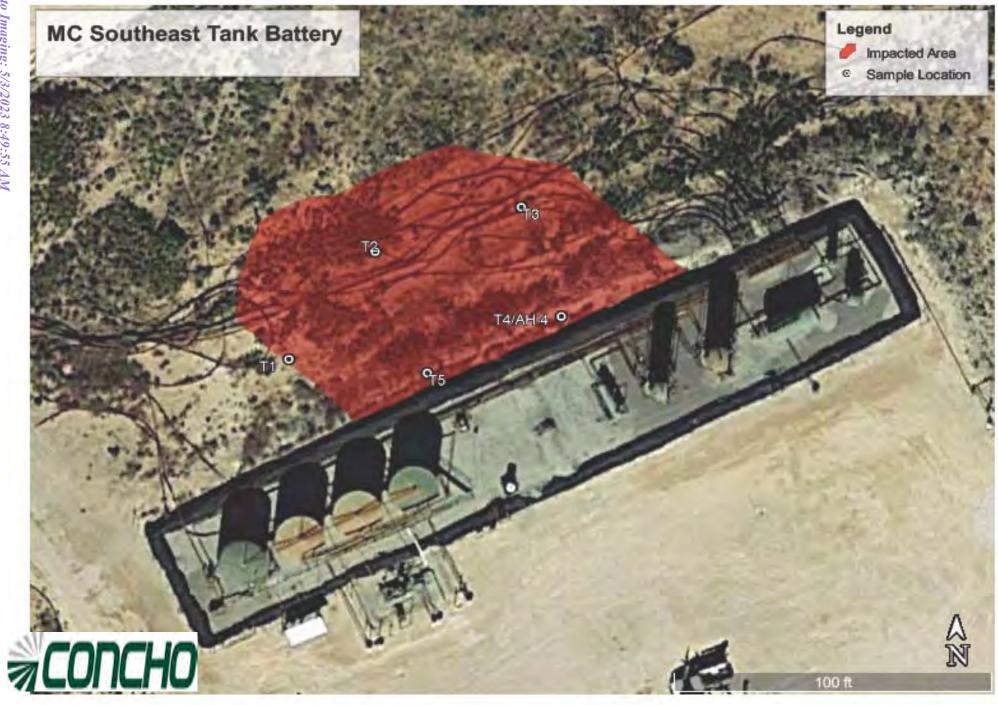
Appendix I: Site Diagram

Appendix II: Groundwater Data Appendix III: Initial C-141 (Copy)

Appendix IV: Analytical Reports and Chain-of-Custody Forms

APPENDIX I

MC Southeast Tank Battery



APPENDIX II



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is

closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

o ,	,	`	•					, ,		,	,	,	
POD Number	POD Sub- Code basin	County		Q (_	: Tws	Rna	x	Y	Distance	-		Water Column
RA 12042 POD1		LE		2			32E	614891		1259	400		
RA 10175		LE		2	1 28	17S	32E	614814	3631005* 🌍	1448	158		
RA 12020 POD1		LE	2	2	1 28	17S	32E	614828	3630954 🌕	1483	120	81	39
RA 08855		LE	4	1	1 10	17S	32E	616061	3635742*	3552	158		
RA 11911 POD1		LE	1	3	1 24	178	32E	619192	3632296 🎒	3588	35		
RA 09505		LE	2	2	1 10	17S	32E	616462	3635944 🌍	3823	147		
L 13050 POD1	L	LE	2	2	1 10	17S	32E	616463	3635945* 🌕	3823	156	132	24
RA 09505 S		LE	2	2	1 10	17S	32E	616463	3635945* 🌎	3823	144		
RA 11734 POD1		LE	2	2	1 10	17S	32E	616556	3635929 🌕	3830	165		
RA 11684 POD1		LE	1	1	4 11	17S	32E	618216	3635124 🌍	3906	275		
RA 11684 POD5		LE	3	1	4 11	17S	32E	618353	3635047 🌑	3943	275		
L 13047 POD1	L	LE			11	17S	32E	618187	3635254* 🎒	3985	140		

Average Depth to Water: 106 feet

Minimum Depth: 81 feet

Maximum Depth: 132 feet

Record Count: 12

Basin/County Search:

County: Lea

UTMNAD83 Radius Search (in meters):

Easting (X): 615604 **Northing (Y):** 3632219 **Radius:** 4000

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

APPENDIX III

Released to Imaging: 5/3/2023 8:49:55 AM

Form C-141

Revised April 3, 2017

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
220.8. St. Francia Dr., Sonto Fa, NM 8750

State of New Mexico Energy Minerals and Natural Resources

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

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

1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa	a Fe, NM 87505
Release Notificat	tion and Corrective Action
	OPERATOR Initial Report Final Report
Name of Company: COG Operating, LLC (OGRID# 229137	
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No.: 432-683-7443
Facility Name: MC Southeast Battery	Facility Type: Tank Battery
Surface Owner: BLM Mineral Own	ner: Federal API No.: 30-025-35252
	ION OF RELEASE
Unit Letter Section Township Range Feet from the No. 178 32E	forth/South Line Feet from the East/West Line County Lea
	7 Longitude : -103.765465 NAD83
	RE OF RELEASE
Type of Release: Oil & Produced Water	Volume of Release: Volume Recovered:
	10bbls Oil & 180bbls PW 5bbls Oil & 175bbls PW
Source of Release: Heater Treater	Date and Hour of Occurrence: 1/4/2018 Date and Hour of Discovery: 1/4/2018 4:30am
Was Immediate Notice Given?	If YES, To Whom?
☐ Yes ☐ No ☐ Not Requi	ired Oliva Yu-NMOCD Shelly Tucker-BLM
By Whom? Rebecca Haskell	Date and Hour: 1/4/2018 12:34pm
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.
☐ Yes ⊠ No	
If a Watercourse was Impacted, Describe Fully.*	RECEIVED
Describe Cause of Problem and Remedial Action Taken.*	By Olivia Yu at 1:32 pm, Jan 08, 2018
A gasket on the heater treater failed resulting in the release of annrov	imately 10bbls of oil and 180bbls of produced water. The gasket was replaced.
Describe Area Affected and Cleanup Action Taken.*	imatery 10001s of our and 100001s of produced water. The gasket was replaced.
The mainteen fall fluid and a mainteen death of a live of faulteen trans	
	wever there was overspray in the pasture measuring approximately 400' x 115'. A be will have the spill area evaluated for any possible impact from the release and we
will present a remediation work plan to the NMOCD for approval price	or to any significant remediation activities.
	to the best of my knowledge and understand that pursuant to NMOCD rules and ase notifications and perform corrective actions for releases which may endanger
	by the NMOCD marked as "Final Report" does not relieve the operator of liability
should their operations have failed to adequately investigate and reme	ediate contamination that pose a threat to ground water, surface water, human health
federal, state, or local laws and/or regulations.	ort does not relieve the operator of responsibility for compliance with any other
	OIL CONSERVATION DIVISION
91 11 22	
Signature: Sheldon Witam	Approved by Environmental Specialist:
Printed Name: Sheldon L. Hitchcock	Tappieved by Environmental Specialist.
	1/8/2018
Title: HSE Coordinator	Approval Date: Expiration Date:
E-mail Address: slhitchcock@concho.com	Conditions of Approval: Attached
Data: 1/9/2019 Phone: 575-746-2010	see attached directive
Date: 1/8/2018 Phone: 575-746-2010 Attach Additional Sheets If Necessary	Please inspect liner in question. Provide
	NMOCD with a concise report of the 1RP-4917
nOY1800849426	inspection with affirmation the liner has
11011100043420	and will continue to contain liquids.
DOV1000010665	Confirmatory laboratory analyses of
pOY1800849665	discrete soil samples (0-6" bgs) from the

discrete soil samples (0-6" bgs) from the impacted pasture area are required.

APPENDIX IV



Certificate of Analysis Summary 576847

COG Operating LLC, Artesia, NM

Project Name: MC Southeast Battery



Project Id: Contact:

Dakota Neel

Project Location:

Date Received in Lab: Mon Feb-19-18 09:08 am

Report Date: 06-MAR-18 **Project Manager:** Kelsey Brooks

	Lab Id:	576847-0	201	576847-0	04	576847-0	05	576847-0	007	576847-0	U6	576847-0	010
			J01		04		03		107		00		J10
Analysis Requested	Field Id:	T-1		T-2		T-2		T-3		T-3		T-4	
1	Depth:	0- ft		0- ft		1- ft		0- ft		1- ft		0- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Feb-15-18	09:00	Feb-15-18 (9:00	Feb-15-18 (9:00	Feb-15-18 (09:00	Feb-15-18 (9:00	Feb-15-18	09:00
BTEX by EPA 8021B	Extracted:	Feb-20-18	15:00	Feb-20-18 1	5:00			Feb-20-18 15:00				Feb-23-18 (08:00
	Analyzed:	Feb-21-18	23:26	Feb-21-18 2	23:07			Feb-21-18 2	22:48			Feb-23-18	15:09
	Units/RL:	mg/kg	RL	mg/kg	RL			mg/kg	RL			mg/kg	RL
Benzene		< 0.00199	0.00199	< 0.00201	0.00201			< 0.00202	0.00202			< 0.0398	0.0398
Toluene		< 0.00199	0.00199	< 0.00201	0.00201			< 0.00202	0.00202			1.06	0.0398
Ethylbenzene		< 0.00199	0.00199	< 0.00201	0.00201			< 0.00202	0.00202			24.1 D	0.994
m,p-Xylenes		< 0.00398			0.00402			< 0.00403	0.00403			13.3	0.0795
o-Xylene		< 0.00199	<0.00199 0.00199		0.00201			< 0.00202	0.00202			7.53	0.0398
Total Xylenes		< 0.00199	0.00199	< 0.00201	0.00201			< 0.00202	0.00202			20.8	0.0398
Total BTEX		< 0.00199	0.00199	< 0.00201	0.00201			< 0.00202	0.00202			46.0	0.0398
Chloride by EPA 300	Extracted:	Feb-23-18	13:30	Feb-23-18 1	3:30	Feb-27-18 1	8:00	Feb-23-18	13:30	Feb-27-18 1	8:00	Feb-23-18	13:30
	Analyzed:	Feb-23-18	17:49	Feb-23-18 1	8:05	Feb-27-18 1	8:42	Feb-23-18	18:11	Feb-27-18 1	9:04	Feb-23-18	18:16
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		394	5.00	667	5.00	21.6	4.93	1110	4.95	324	4.96	7110	49.9
TPH By SW8015 Mod	Extracted:	Feb-21-18	10:00	Feb-21-18 1	0:00			Feb-21-18	10:00			Feb-21-18	10:00
	Analyzed:	Feb-21-18	Feb-21-18 12:35		3:00			Feb-21-18	13:28			Feb-22-18	11:57
	Units/RL:	mg/kg	RL	mg/kg	RL			mg/kg	RL			mg/kg	RL
Gasoline Range Hydrocarbons (GRO)	·	<15.0	15.0	<15.0	15.0			<15.0	15.0			1320	149
Diesel Range Organics (DRO)		164	164 15.0		15.0			47.1	15.0			8770	149
Oil Range Hydrocarbons (ORO)		<15.0	15.0	<15.0	15.0			<15.0	15.0			<149	149
Total TPH		164	164 15.0		15.0			47.1	15.0			10100	149

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Kelsey Brooks Project Manager

Knis Roah



Certificate of Analysis Summary 576847

COG Operating LLC, Artesia, NM

Project Name: MC Southeast Battery



Project Id: Contact:

Dakota Neel

Project Location:

Date Received in Lab: Mon Feb-19-18 09:08 am

Report Date: 06-MAR-18

Project Manager: Kelsey Brooks

	Lab Id:	576847-0	011	576847-0	12	576847-0	13		
Analysis Requested	Field Id:	T-4		T-4		T-5			
Anatysis Requested	Depth:	1- ft		2- ft		0- ft			
	Matrix:	SOIL		SOIL		SOIL			
	Sampled:	Feb-15-18 (09:00	Feb-15-18 0	9:00	Feb-15-18 0	9:00		
BTEX by EPA 8021B	Extracted:					Feb-23-18 0	8:00		
	Analyzed:					Feb-23-18 1	4:31		
	Units/RL:					mg/kg	RL		
Benzene						< 0.00202	0.00202		
Toluene						< 0.00202	0.00202		
Ethylbenzene						< 0.00202	0.00202		
m,p-Xylenes						< 0.00403	0.00403		
o-Xylene						< 0.00202	0.00202		
Total Xylenes						< 0.00202	0.00202		
Total BTEX						< 0.00202	0.00202		
Chloride by EPA 300	Extracted:	Feb-27-18 18:00		Mar-02-18 09:00		Feb-23-18 1	3:30		
	Analyzed:	Feb-27-18	18:49	Mar-02-18 1	0:52	Feb-23-18 1	8:21		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		4010	24.5	3670	24.8	134	5.00		
TPH By SW8015 Mod	Extracted:					Feb-20-18 0	7:00		
	Analyzed:					Feb-21-18 0	9:29		
	Units/RL:					mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)						<15.0	15.0		
Diesel Range Organics (DRO)	O)					17.7	15.0		
Oil Range Hydrocarbons (ORO)						<15.0	15.0		\Box
Total TPH						17.7	15.0		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Kelsey Brooks
Project Manager

Analytical Report 576847

for COG Operating LLC

Project Manager: Dakota Neel
MC Southeast Battery

06-MAR-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-18-24), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-17-16), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-18-14)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)





06-MAR-18

Project Manager: **Dakota Neel COG Operating LLC**2407 Pecos Avenue
Artesia, NM 88210

Reference: XENCO Report No(s): 576847

MC Southeast Battery

Project Address:

Dakota Neel:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 576847. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 576847 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Kelsey Brooks

Knus Roah

Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



Sample Cross Reference 576847



COG Operating LLC, Artesia, NM

MC Southeast Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
T-1	S	02-15-18 09:00	0 ft	576847-001
T-2	S	02-15-18 09:00	0 ft	576847-004
T-2	S	02-15-18 09:00	1 ft	576847-005
T-3	S	02-15-18 09:00	0 ft	576847-007
T-3	S	02-15-18 09:00	1 ft	576847-008
T-4	S	02-15-18 09:00	0 ft	576847-010
T-4	S	02-15-18 09:00	1 ft	576847-011
T-4	S	02-15-18 09:00	2 ft	576847-012
T-5	S	02-15-18 09:00	0 ft	576847-013
T-1	S	02-15-18 09:00	1 ft	Not Analyzed
T-1	S	02-15-18 09:00	2 ft	Not Analyzed
T-2	S	02-15-18 09:00	2 ft	Not Analyzed
T-3	S	02-15-18 09:00	2 ft	Not Analyzed
T-5	S	02-15-18 09:00	1 ft	Not Analyzed
T-5	S	02-15-18 09:00	2 ft	Not Analyzed

CASE NARRATIVE

Client Name: COG Operating LLC Project Name: MC Southeast Battery

Project ID: Report Date: 06-MAR-18 Work Order Number(s): 576847 Date Received: 02/19/2018

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3041964 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3041987 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3042371 Inorganic Anions by EPA 300

Lab Sample ID 577603-002 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 576847-005, -008, -011.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.





COG Operating LLC, Artesia, NM

MC Southeast Battery

Sample Id: T-1

Matrix:

Date Received:02.19.18 09.08

Lab Sample Id: 576847-001

Soil Date Collected: 02.15.18 09.00

Sample Depth: 0 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

% Moisture:

Tech: LRI

Analyst:

OJS

Date Prep: 02.23.18 13.30 Basis:

Wet Weight

Seq Number: 3042082

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	394	5.00	mg/kg	02.23.18 17.49		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARMARM

02.21.18 10.00 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	02.21.18 12.35	U	1
Diesel Range Organics (DRO)	C10C28DRO	164	15.0		mg/kg	02.21.18 12.35		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	02.21.18 12.35	U	1
Total TPH	PHC635	164	15.0		mg/kg	02.21.18 12.35		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	90	%	70-135	02.21.18 12.35		
o-Terphenyl		84-15-1	89	%	70-135	02.21.18 12.35		





COG Operating LLC, Artesia, NM

MC Southeast Battery

Sample Id: T-1

Lab Sample Id: 576847-001

Analytical Method: BTEX by EPA 8021B

ALJ

Matrix: Soil

Date Received:02.19.18 09.08

Date Collected: 02.15.18 09.00

Sample Depth: 0 ft

Prep Method: SW5030B

% Moisture:

Tech: ALJ

Analyst:

Date Prep: 02.20.18 15.00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	02.21.18 23.26	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	02.21.18 23.26	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	02.21.18 23.26	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	02.21.18 23.26	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	02.21.18 23.26	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	02.21.18 23.26	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	02.21.18 23.26	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	85	%	80-120	02.21.18 23.26		
4-Bromofluorobenzene		460-00-4	102	%	80-120	02.21.18 23.26		





COG Operating LLC, Artesia, NM

MC Southeast Battery

Sample Id: T-2

Matrix:

Date Received:02.19.18 09.08

Lab Sample Id: 576847-004

Soil Date Collected: 02.15.18 09.00

Sample Depth: 0 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

LRI

Date Prep: 02.23.18 13.30 % Moisture:

Basis:

Wet Weight

OJS Analyst:

Seq Number: 3042082

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	667	5.00	mg/kg	02.23.18 18.05		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARMARM

Date Prep:

02.21.18 10.00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	02.21.18 13.00	U	1
Diesel Range Organics (DRO)	C10C28DRO	388	15.0		mg/kg	02.21.18 13.00		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	02.21.18 13.00	U	1
Total TPH	PHC635	388	15.0		mg/kg	02.21.18 13.00		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	95	%	70-135	02.21.18 13.00		
o-Terphenyl		84-15-1	102	%	70-135	02.21.18 13.00		





COG Operating LLC, Artesia, NM

MC Southeast Battery

Sample Id: T-2

Lab Sample Id: 576847-004

Matrix:

Soil Date Collected: 02.15.18 09.00 Date Received:02.19.18 09.08

Sample Depth: 0 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: ALJ

Analyst: ALJ

02.20.18 15.00 Date Prep:

% Moisture: Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	02.21.18 23.07	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	02.21.18 23.07	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	02.21.18 23.07	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	02.21.18 23.07	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	02.21.18 23.07	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	02.21.18 23.07	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	02.21.18 23.07	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	82	%	80-120	02.21.18 23.07		
4-Bromofluorobenzene		460-00-4	105	%	80-120	02.21.18 23.07		





COG Operating LLC, Artesia, NM

MC Southeast Battery

Sample Id: T-2

Matrix: Soil

Date Received:02.19.18 09.08

Lab Sample Id: 576847-005

Date Collected: 02.15.18 09.00

Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

OJS

Prep Method: E300P

Tech:

% Moisture: Basis:

:

Analyst: OJS

Date Prep:

02.27.18 18.00

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	21.6	4.93	mg/kg	02.27.18 18.42		1





COG Operating LLC, Artesia, NM

MC Southeast Battery

Sample Id: T-3

Matrix:

Date Received:02.19.18 09.08

Lab Sample Id: 576847-007

Soil Date Collected: 02.15.18 09.00

Sample Depth: 0 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

% Moisture:

Tech: Analyst: LRI OJS

Date Prep: 02.23.18 13.30 Basis:

Wet Weight

Seq Number: 3042082

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1110	4.95	mg/kg	02.23.18 18.11		1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

% Moisture:

Tech: Analyst: ARMARM

02.21.18 10.00 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	02.21.18 13.28	U	1
Diesel Range Organics (DRO)	C10C28DRO	47.1	15.0		mg/kg	02.21.18 13.28		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	02.21.18 13.28	U	1
Total TPH	PHC635	47.1	15.0		mg/kg	02.21.18 13.28		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	109	%	70-135	02.21.18 13.28		
o-Terphenyl		84-15-1	103	%	70-135	02.21.18 13.28		





COG Operating LLC, Artesia, NM

MC Southeast Battery

Soil

Sample Id: T-3

Matrix:

Date Received:02.19.18 09.08

Lab Sample Id: 576847-007

Date Collected: 02.15.18 09.00

Sample Depth: 0 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

ALJ

% Moisture:

Analyst: ALJ

Date Prep:

02.20.18 15.00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	02.21.18 22.48	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	02.21.18 22.48	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	02.21.18 22.48	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	02.21.18 22.48	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	02.21.18 22.48	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	02.21.18 22.48	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	02.21.18 22.48	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	86	%	80-120	02.21.18 22.48		
4-Bromofluorobenzene		460-00-4	107	%	80-120	02.21.18 22.48		





COG Operating LLC, Artesia, NM

MC Southeast Battery

Sample Id: T-3

Matrix:

Date Received:02.19.18 09.08

Lab Sample Id: 576847-008

Soil Date Collected: 02.15.18 09.00

Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

OJS

% Moisture:

OJS Analyst:

Seq Number: 3042371

Date Prep:

02.27.18 18.00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	324	4.96	mg/kg	02.27.18 19.04		1





COG Operating LLC, Artesia, NM

MC Southeast Battery

Soil

Sample Id: T-4

Matrix:

Date Received:02.19.18 09.08

Lab Sample Id: 576847-010

Date Collected: 02.15.18 09.00

Sample Depth: 0 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech: Analyst: LRI OJS

Date Prep:

02.23.18 13.30

Basis:

Wet Weight

Seq Number: 3042082

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7110	49.9	mg/kg	02.23.18 18.16		10

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: Analyst: ARMARM

Date Prep:

02.21.18 10.00

Basis:

% Moisture:

Wet Weight

Parameter	Cas Number	Result RL			Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	1320	149		mg/kg	02.22.18 11.57		10
Diesel Range Organics (DRO)	C10C28DRO	8770	149		mg/kg	02.22.18 11.57		10
Oil Range Hydrocarbons (ORO)	PHCG2835	<149	149		mg/kg	02.22.18 11.57	U	10
Total TPH	PHC635	10100	149		mg/kg	02.22.18 11.57		10
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	121	%	70-135	02.22.18 11.57		
o-Terphenyl		84-15-1	110	%	70-135	02.22.18 11.57		





COG Operating LLC, Artesia, NM

MC Southeast Battery

Sample Id: T-4

Matrix:

Soil

Date Received:02.19.18 09.08

Lab Sample Id: 576847-010

Date Collected: 02.15.18 09.00

Sample Depth: 0 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

Analyst:

ALJ ALJ

02.23.18 08.00 Date Prep:

% Moisture: Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0398	0.0398		mg/kg	02.23.18 15.09	U	20
Toluene	108-88-3	1.06	0.0398		mg/kg	02.23.18 15.09		20
Ethylbenzene	100-41-4	24.1	0.994		mg/kg	02.23.18 13.11	D	500
m,p-Xylenes	179601-23-1	13.3	0.0795		mg/kg	02.23.18 15.09		20
o-Xylene	95-47-6	7.53	0.0398		mg/kg	02.23.18 15.09		20
Total Xylenes	1330-20-7	20.8	0.0398		mg/kg	02.23.18 15.09		20
Total BTEX		46.0	0.0398		mg/kg	02.23.18 13.11		500
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	105	%	80-120	02.23.18 15.09		
1,4-Difluorobenzene		540-36-3	81	%	80-120	02.23.18 15.09		





COG Operating LLC, Artesia, NM

MC Southeast Battery

Sample Id: T-4

Matrix:

Soil

Date Received:02.19.18 09.08

Lab Sample Id: 576847-011

Date Collected: 02.15.18 09.00

Sample Depth: 1 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

% Moisture:

OJS Tech:

Analyst:

OJS

02.27.18 18.00 Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4010	24.5	mg/kg	02.27.18 18.49		5





COG Operating LLC, Artesia, NM

MC Southeast Battery

Sample Id:

Matrix:

Soil

Date Received:02.19.18 09.08

Lab Sample Id: 576847-012

Date Collected: 02.15.18 09.00

Sample Depth: 2 ft

Prep Method: E300P

% Moisture:

Tech: Analyst: OJS OJS

Analytical Method: Chloride by EPA 300

Date Prep:

03.02.18 09.00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3670	24.8	mg/kg	03.02.18 10.52		5





COG Operating LLC, Artesia, NM

MC Southeast Battery

Sample Id: T-5

Matrix:

Soil

Date Received:02.19.18 09.08

Lab Sample Id: 576847-013

Date Collected: 02.15.18 09.00

Sample Depth: 0 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech: Analyst: LRI OJS

Date Prep:

02.23.18 13.30

Basis:

Wet Weight

Seq Number: 3042082

Parameter Cas Number Result RLUnits **Analysis Date** Flag Dil 16887-00-6 Chloride 02.23.18 18.21 134 5.00 mg/kg 1

Analytical Method: TPH By SW8015 Mod

Prep Method: TX1005P

Tech: Analyst: ARM ARM

Date Prep:

02.20.18 07.00

% Moisture: Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0		mg/kg	02.21.18 09.29	U	1
Diesel Range Organics (DRO)	C10C28DRO	17.7	15.0		mg/kg	02.21.18 09.29		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0		mg/kg	02.21.18 09.29	U	1
Total TPH	PHC635	17.7	15.0		mg/kg	02.21.18 09.29		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	105	%	70-135	02.21.18 09.29		
o-Terphenyl		84-15-1	107	%	70-135	02.21.18 09.29		





COG Operating LLC, Artesia, NM

MC Southeast Battery

Soil

02.23.18 08.00

Sample Id: T-5

Matrix:

Date Received:02.19.18 09.08

Lab Sample Id: 576847-013

Date Collected: 02.15.18 09.00

Sample Depth: 0 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech:

ALJ

% Moisture:

Analyst: ALJ

Date Prep:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	02.23.18 14.31	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	02.23.18 14.31	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	02.23.18 14.31	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	02.23.18 14.31	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	02.23.18 14.31	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	02.23.18 14.31	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	02.23.18 14.31	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	80	%	80-120	02.23.18 14.31		
4-Bromofluorobenzene		460-00-4	120	%	80-120	02.23.18 14.31		



Flagging Criteria



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.
- BRL Below Reporting Limit.
- **RL** Reporting Limit

MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Atlanta - Midland/Odessa - Tampa/Lakeland - Phoenix - Latin America

Phone	Fax
(281) 240-4200	(281) 240-4280
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(432) 563-1800	(432) 563-1713
(602) 437-0330	
	(281) 240-4200 (214) 902 0300 (210) 509-3334 (432) 563-1800

E300P

E300P

Prep Method:

Prep Method:



QC Summary 576847

COG Operating LLC

MC Southeast Battery

Analytical Method: Chloride by EPA 300

Seq Number: 3042082 Matrix: Solid Date Prep: 02.23.18

LCS Sample Id: 7639674-1-BKS LCSD Sample Id: 7639674-1-BSD MB Sample Id: 7639674-1-BLK

MR Spike LCS LCS Limits %RPD RPD Limit Units LCSD LCSD Analysis Flag **Parameter** Result Amount Result %Rec Date Result %Rec 02.23.18 15:45 Chloride < 5.00 250 258 103 258 103 90-110 0 20 mg/kg

Analytical Method: Chloride by EPA 300

E300P Prep Method: Seq Number: 3042371 Matrix: Solid Date Prep: 02.27.18

7639874-1-BSD MB Sample Id: 7639874-1-BLK LCS Sample Id: 7639874-1-BKS LCSD Sample Id:

MB Spike LCS LCS %RPD RPD Limit Units LCSD LCSD Limits Analysis Flag **Parameter** Result %Rec Date Result Amount Result %Rec Chloride < 5.00 250 239 96 239 96 90-110 0 20 mg/kg 02.27.18 16:20

Analytical Method: Chloride by EPA 300

Seq Number: 3042826 Matrix: Solid Date Prep: 03.02.18

LCS Sample Id: 7640118-1-BKS LCSD Sample Id: 7640118-1-BSD MB Sample Id: 7640118-1-BLK

LCS LCS %RPD RPD Limit Units Spike LCSD LCSD Limits Analysis **Parameter** Result %Rec Date Result Amount Result %Rec Chloride 250 265 106 266 106 90-110 0 20 03.02.18 10:26 < 5.00 mg/kg

Analytical Method: Chloride by EPA 300

E300P Prep Method: Seq Number: 3042082 Matrix: Soil 02.23.18 Date Prep: 576852-003 S MSD Sample Id: 576852-003 SD Parent Sample Id: 576852-003 MS Sample Id:

%RPD RPD Limit Units Parent Spike MS MS MSD Limits Analysis **MSD** Flag **Parameter** Result Amount Result %Rec Date Result %Rec Chloride 295 247 525 93 533 96 90-110 2 20 02.23.18 16:12 mg/kg

Analytical Method: Chloride by EPA 300

MB

E300P Prep Method: 3042082 Matrix: Soil Seq Number: Date Prep: 02.23.18

MS Sample Id: 576852-013 S Parent Sample Id: 576852-013 MSD Sample Id: 576852-013 SD

Parent Spike MS MS Limits %RPD RPD Limit Units Analysis **MSD MSD** Flag **Parameter** Result Date Result Amount %Rec Result %Rec Chloride 36.1 249 309 110 299 106 90-110 3 20 mg/kg 02.23.18 17:39

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) |[D] = 100 * (C) / [B]

LCS = Laboratory Control Sample A = Parent Result

= MS/LCS Result E = MSD/LCSD Result

Flag

E300P

E300P

E300P

02.27.18

Prep Method:



QC Summary 576847

COG Operating LLC

MC Southeast Battery

Analytical Method: Chloride by EPA 300

Seq Number: 3042371 Matrix: Soil Date Prep:

MS Sample Id: 576847-008 S MSD Sample Id: 576847-008 SD Parent Sample Id: 576847-008

%RPD RPD Limit Units Spike MS MS Limits Parent **MSD MSD** Analysis Flag **Parameter** Result Amount Result Date %Rec Result %Rec 02.27.18 19:11 Chloride 324 248 513 76 582 104 90-110 13 20 X mg/kg

Analytical Method: Chloride by EPA 300

Prep Method: E300P Seq Number: 3042371 Matrix: Soil Date Prep: 02.27.18

Parent Sample Id: 577603-002 MS Sample Id: 577603-002 S MSD Sample Id: 577603-002 SD

Spike MS MS %RPD RPD Limit Units Parent **MSD MSD** Limits Analysis Flag **Parameter** Result Date Result Amount %Rec Result %Rec Chloride 151 250 394 97 395 98 90-110 0 20 mg/kg 02.27.18 17:28

Analytical Method: Chloride by EPA 300

Prep Method: 3042826 Matrix: Soil 03.02.18 Seq Number: Date Prep:

MSD Sample Id: 577798-001 SD MS Sample Id: 577798-001 S 577798-001 Parent Sample Id:

MS %RPD RPD Limit Units Parent Spike MS **MSD MSD** Limits Analysis **Parameter** Result Date Result %Rec Amount Result %Rec Chloride 56.6 250 321 106 323 107 90-110 20 03.02.18 10:42 mg/kg

Analytical Method: Chloride by EPA 300

Prep Method: 3042826 Matrix: Soil Seq Number: Date Prep: 03.02.18

577798-002 S MSD Sample Id: 577798-002 MS Sample Id: 577798-002 SD Parent Sample Id: %RPD RPD Limit Units Parent Spike MS MS Limits Analysis **MSD MSD**

Flag **Parameter** Result Result %Rec Date Amount Result %Rec Chloride 322 249 606 114 596 90-110 2 20 03.02.18 11:56 110 mg/kg X

Analytical Method: TPH By SW8015 Mod

TX1005P Prep Method: 3041815 Matrix: Solid Seq Number: Date Prep: 02.20.18

7639517-1-BKS MB Sample Id: 7639517-1-BLK LCS Sample Id: LCSD Sample Id: 7639517-1-BSD

MB Spike LCS LCS Limits %RPD RPD Limit Units Analysis LCSD LCSD **Parameter** Result Date Result Amount %Rec Result %Rec Gasoline Range Hydrocarbons (GRO) < 15.01000 875 88 868 87 70-135 35 mg/kg 02.20.18 08:17 Diesel Range Organics (DRO) <15.0 1000 963 96 961 96 70-135 0 35 mg/kg 02.20.18 08:17

LCS MB MB LCS LCSD Limits Units Analysis LCSD **Surrogate** %Rec Flag %Rec Flag %Rec Flag Date 1-Chlorooctane 119 109 107 70-135 % 02.20.18 08:17 02.20.18 08:17 o-Terphenyl 125 107 106 70-135 %

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) |[D] = 100 * (C) / [B]

LCS = Laboratory Control Sample A = Parent Result

= MS/LCS Result = MSD/LCSD Result

Flag



Seq Number:

QC Summary 576847

COG Operating LLC

MC Southeast Battery

Limits

Analytical Method: TPH By SW8015 Mod

3041818 Matrix: Solid

Spike

LCS

7639556-1-BKS

LCSD

LCSD

TX1005P Prep Method:

Date Prep: 02.21.18

LCS Sample Id: MB Sample Id: 7639556-1-BLK

MB

LCSD Sample Id: 7639556-1-BSD %RPD RPD Limit Units Analysis

Flag **Parameter** Result Amount Result %Rec Date Result %Rec Gasoline Range Hydrocarbons (GRO) 70-135 02.21.18 11:41 1000 937 94 877 88 7 35 mg/kg <15.0 1010 101 949 70-135 35 02.21.18 11:41 Diesel Range Organics (DRO) 1000 95 6 <15.0 mg/kg

LCS

MB MB LCS LCS LCSD LCSD Limits Units Analysis **Surrogate** %Rec %Rec Flag Flag %Rec Flag Date 1-Chlorooctane 93 119 109 70-135 % 02.21.18 11:41 o-Terphenyl 97 113 106 70-135 % 02.21.18 11:41

Analytical Method: TPH By SW8015 Mod

Seq Number: 3041815 Matrix: Soil

Prep Method: Date Prep:

TX1005P

02.20.18 MS Sample Id: 576746-001 S MSD Sample Id: 576746-001 SD 576746-001 Parent Sample Id:

MS MS %RPD RPD Limit Units Parent Spike Limits Analysis **MSD** MSD **Parameter** Result Date Result Amount %Rec %Rec Result Gasoline Range Hydrocarbons (GRO) 998 868 87 70-135 35 02.20.18 09:34 <15.0 858 86 mg/kg 02.20.18 09:34 Diesel Range Organics (DRO) 998 966 97 960 70-135 35 <15.0 96 mg/kg

MSD MS MS **MSD** Limits Units Analysis Surrogate Flag Flag Date %Rec %Rec 110 107 70-135 02.20.18 09:34 1-Chlorooctane % o-Terphenyl 106 105 70-135 % 02.20.18 09:34

Analytical Method: TPH By SW8015 Mod

Seq Number: 3041818

576847-007

Prep Method: TX1005P Date Prep:

02.21.18

Matrix: Soil MS Sample Id: 576847-007 S MSD Sample Id: 576847-007 SD Parent Sample Id:

%RPD RPD Limit Units MS MS Spike Limits Analysis Parent **MSD** MSD **Parameter** Result **Amount** Result %Rec Date Result %Rec 02.21.18 13:53 Gasoline Range Hydrocarbons (GRO) <15.0 997 886 89 1010 101 70-135 13 35 mg/kg 1070 103 70-135 3 35 02.21.18 13:53 Diesel Range Organics (DRO) 47.1 997 1100 106 mg/kg

MS MS **MSD MSD** Limits Units Analysis Surrogate Flag Flag Date %Rec %Rec 108 119 70-135 02.21.18 13:53 1-Chlorooctane % 70-135 02.21.18 13:53 o-Terphenyl 106 114 %

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) |[D] = 100 * (C) / [B]

LCS = Laboratory Control Sample A = Parent Result

= MS/LCS Result = MSD/LCSD Result

Flag

Flag



QC Summary 576847

COG Operating LLC

MC Southeast Battery

Analytical Method:BTEX by EPA 8021BPrep Method:SW5030BSeq Number:3041964Matrix:SolidDate Prep:02.20.18

MB Sample Id: 7639673-1-BLK LCS Sample Id: 7639673-1-BKS LCSD Sample Id: 7639673-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date
Benzene	< 0.00199	0.0994	0.0823	83	0.0935	94	70-130	13	35	mg/kg	02.21.18 20:15
Toluene	< 0.00199	0.0994	0.0887	89	0.101	101	70-130	13	35	mg/kg	02.21.18 20:15
Ethylbenzene	< 0.00199	0.0994	0.102	103	0.117	117	71-129	14	35	mg/kg	02.21.18 20:15
m,p-Xylenes	< 0.00398	0.199	0.201	101	0.229	114	70-135	13	35	mg/kg	02.21.18 20:15
o-Xylene	< 0.00199	0.0994	0.0994	100	0.114	114	71-133	14	35	mg/kg	02.21.18 20:15

LCSD MB MB LCS LCS LCSD Limits Units Analysis **Surrogate** Flag %Rec Flag Flag Date %Rec %Rec 87 02.21.18 20:15 1,4-Difluorobenzene 83 86 80-120 % 108 02.21.18 20:15 4-Bromofluorobenzene 99 112 80-120 %

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Seq Number:3041987Matrix:SolidDate Prep:02.23.18MB Sample Id:7639672-1-BLKLCS Sample Id:7639672-1-BKSLCSD Sample Id:7639672-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date
Benzene	< 0.00202	0.101	0.0930	92	0.0843	84	70-130	10	35	mg/kg	02.23.18 07:54
Toluene	< 0.00202	0.101	0.0996	99	0.0910	91	70-130	9	35	mg/kg	02.23.18 07:54
Ethylbenzene	< 0.00202	0.101	0.114	113	0.104	104	71-129	9	35	mg/kg	02.23.18 07:54
m,p-Xylenes	< 0.00403	0.202	0.224	111	0.205	102	70-135	9	35	mg/kg	02.23.18 07:54
o-Xylene	< 0.00202	0.101	0.110	109	0.101	101	71-133	9	35	mg/kg	02.23.18 07:54

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	83		81		82		80-120	%	02.23.18 07:54
4-Bromofluorobenzene	107		111		117		80-120	%	02.23.18 07:54

Analytical Method:BTEX by EPA 8021BPrep Method:SW5030BSeq Number:3041964Matrix: SoilDate Prep:02.20.18

Parent Sample Id: 576848-003 MS Sample Id: 576848-003 S MSD Sample Id: 576848-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limi	t Units	Analysis Date
Benzene	< 0.00202	0.101	0.0730	72	0.0738	74	70-130	1	35	mg/kg	02.21.18 20:53
Toluene	0.00225	0.101	0.0781	75	0.0777	76	70-130	1	35	mg/kg	02.21.18 20:53
Ethylbenzene	< 0.00202	0.101	0.0875	87	0.0848	85	71-129	3	35	mg/kg	02.21.18 20:53
m,p-Xylenes	< 0.00403	0.202	0.171	85	0.166	83	70-135	3	35	mg/kg	02.21.18 20:53
o-Xylene	< 0.00202	0.101	0.0859	85	0.0823	83	71-133	4	35	mg/kg	02.21.18 20:53

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	83		87		80-120	%	02.21.18 20:53
4-Bromofluorobenzene	106		105		80-120	%	02.21.18 20:53

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100*(C) / [B]

 $LCS = Laboratory\ Control\ Sample$

A = Parent Result

C = MS/LCS Result E = MSD/LCSD Result



Seq Number:

Parent Sample Id:

4-Bromofluorobenzene

QC Summary 576847

COG Operating LLC

MC Southeast Battery

117

Analytical Method: BTEX by EPA 8021B

576848-010

3041987 Matrix: Soil MS Sample Id: 576848-010 S Prep Method: SW5030B Date Prep: 02.23.18

MSD Sample Id: 576848-010 SD

%

80-120

02.23.18 08:43

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPI	O RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00201	0.100	0.0771	77	0.0724	73	70-130	6	35	mg/kg	02.23.18 08:43	
Toluene	< 0.00201	0.100	0.0818	82	0.0761	76	70-130	7	35	mg/kg	02.23.18 08:43	
Ethylbenzene	< 0.00201	0.100	0.0923	92	0.0856	86	71-129	8	35	mg/kg	02.23.18 08:43	
m,p-Xylenes	< 0.00402	0.201	0.182	91	0.170	85	70-135	7	35	mg/kg	02.23.18 08:43	
o-Xylene	< 0.00201	0.100	0.0899	90	0.0849	85	71-133	6	35	mg/kg	02.23.18 08:43	
Surrogate			M %I		MS Flag	MSD %Rec			Limits	Units	Analysis Date	
1,4-Difluorobenzene			8	7		82			80-120	%	02.23.18 08:43	

119



IN OF CUSTODY

San Antonio, Texas (210-509-3334)

Phoenix, Arizona (480-355-0900)

Final 1.001

Company Address: 2407 Pecas Ava Areasis Mil 98210 Project Coach Coac	Client / Reporting Information Company Name / Branch: COG Operating LLC	tion Taing LLC	Pro	Project Infor Project Name/Number: MC SOUTHEAST BATTERY	SB	Project Information er: T BATTERY	á													
Weel Veel T1 T1 T1 T2 T2 T2 T2 T3 T3 GENCY VCY VCY VCY VCY VCY VCY VCY	ranch:	rating LLC as Ave. Artesia NM 88210	Pro MC	SOUTHE,	S B	ERY														
T1 T1 T1 T2 T2 T2 T3	mail: dneel2@concho.com lhitchcock@concho.com gray@concho.com; rhaskell@concho.com		Invo		OG Operat tn: Robert 00 W. Illino	ing LLC Mcneill is Ave.														
T1 T1 T1 T1 T1 T2 T2 T2 T3 T3 T3 CY CY Eceived by Lab, if rescription	Samplers's Name: Daketa Nael		Po	111								ed			3	S	5	6	8	8
Field ID / Point of Collection T1 T1 T2 T2 T2 T3 T3 Same Day TAT Next Day EMERGENCY 2 Day EMERGENCY TAT Starts Day received by Lab, if reclinquished by Sampler:	Sampiers's Name: Dakota Neel		2	ollection	à	-		Nimber	of prese	wed bo	in a		ende	ende						
T1 2		pint of Collection	100	Date		-	HCI	NaOH/Zn Acetate	H2SO4 Prese	NaOH Ved bo			TPH Exter	TPH Exter	11.12.12.12.11.11	BTEX	BTEX	BTEX	BTEX	BTEX
### T1		T1				S							×	×		×	×	×	×	×
## T1 ## T2 ## T2 ## T2 ## T2 ## T3 ##	2	11				S							×	×		×	×	×	×	×
4 T2 5 T2 6 T2 7 T3 8 T3 9 T3 9 T3 13 9 T4 15 16 17 17 18 17 18 17 18 18 18 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10	3	T1		13.15		S							×	×		×	×	×	×	×
T2 6 T2 7 T3 8 T3 9 T3 9 T3 10 Turnaround Time (Business days) Next Day EMERGENCY X 2 Day EMERGENCY X TAT Starts Day received by Lab, if reclinquished by Sampler:	4	T2	5	7.1	9:00	S							×	×	2.2	×	×	×	×	×
T2 T3 T3 B T3 T3 B T3 T3 D Tumaround Time (Business days) T3 D Same Day TAT Same Day TAT D Same Day TAT Starts Day emergency TAT Starts Day received by Lab, if receinquished by Sampler: Relinquished by Sampler:	OT .	T2		15/2018	9:00	S							×	×		×	×	×	×	×
7 T3 8 T3 9 T3 9 Turnaround Time (Business days) Next Day EMERGENCY	6	Т2			9:00	S							×	×		×	× ×	× ×	×	× ×
T3 9 Turnaround Time (Business days) Same Day TAT	7	Т3			9:00	co							×	×		×	×	×	×	× × CF:(0-6: -0.2°C)
T3 O Turnaround Time (Business days)	œ	T3	1	15/2018	9:00	S							×	×		×	×	×	×	×
Same Day TAT Same Day TAT Day EMERGENCY TAT Starts Day received by Lab, if re Relinquished by:	9	Т3		15/2018	9:00	co				-		-	×	×	-	×	×	×	×	× × Con
Same Day TAT Next Day EMERGENCY 2 Day EMERGENCY 3 Day EMERGENCY TAT Starts Day received by Lab, if re Relinquished by Sampler: Relinquished by:		ss days)				Data C	Deliverable	Informatio	5	1		1					Notes:	Notes:	Notes:	Notes:
Next Day EMERGENCY 2 Day EMERGENCY TAT Starts Day received by Lab, if re relinquished by Sampler: Relinquished by:	Same Day TAT	5 Day TAT			Level	II Std QC		П	Lev	el IV (Fu	I Data	kg /ra	3	w data)	w data)		346		5top 01	5top 01
2 Day EMERGENCY TAT Starts Day received by Lab, if re Relinquished by Sampler:	Next Day EMERGENCY	7 Day TAT			Level	III Std QC	+ Forms		TRE	P Level	<								1	
TAT Starts Day received by Lab, if re	2 Day EMERGENCY	X Contract TAT			Level	3 (CLP Fo	rms)	П	USI	/ RG -4	2									
TAT Starts Day received by Lab, if re Relinquished by Sampler:	3 Day EMERGENCY				TRRP	Checklist														
Relinquished by Sampler: Relinquished by:	TAT Starts Day received	d by Lab, if received by	:00 pm																FED-EX / UPS: Tracking #	
Relinquished by: 2/14/18 Plos List Suller 104 2 List Sure Relinquished By: Received By:	Relinguished by Sampler:	SAMPLE CUST	ODY MUST BE DO	CUMENTED	BLOW EACH	H TIME SAN	WPLES CH	ANGE POS	SESSION	, INCLUI	By:		URIER DI	URIER DELIVER	_	Date Time:	Date Time: 13 t	Date Time:	Date Time: 13 t	Date Time: 13 t
			Z/IW/18 Date Time:		aceived By	But	74	104	0	quished	12	125	h	h		2-14-18 Date Time:	2-14-8 Date Time:	Date Time:	2-14-8 Date Time:	2-14-8 Date Time:

Page 27 of 29

Setting the Standard since 1990

Stafford, Texas (281-240-4200)

CHAIN OF CUSTODY

San Antonio, Texas (210-509-3334)

Phoenix, Arizona (480-355-0900)

Relino	Relino	1	Relino		7				S		10	9	00	7	თ	ر د	4	w	2	-	N _o .		Samplers's	Project Co	slhitchcock cgray@con	Email: dne	Company Address:	Company	0	
Relinquished by: Date Time: Received By: Custody Seal # Preserved where applicable On Ice Cooler Temp. Thermo. Corr. Factor	Relinquished by:		Relinquished by Sampler:	TAL States Day received by Lab, it received by 5.00 pill	T Starts Day received by	3 Day EMERGENCY	2 Day EMERGENCY	Next Day EMERGENCY	Same Day TAT	Turnaround Time (Business days)											Field ID / Point of Collection		Samplers's Name: Dakota Neel	Project Contact: Dakota Neel	slhitchcock@concho.com cgray@concho.com; rhaskell@concho.com	Email: dneet2@concho.com		Company Name / Branch: COG Operating LLC	ing	
			Date Time: Received By: 7-1.48 Relinquished By: 11/16	Lab, II leceived by 5.	I ab if received by 5		X Contract TAT	7 Day TAT	5 Day TAT	ays)					Т5	T5	T5	Т4	T4	T4	of Collection				575-746-2010	Phone No:	Adagia NIM 88910	HLC		
Date Time	Date Time:	9110117	Date Time:	DV MILET BE	00 nm										Ŋ	1'	Q.	2'	4	O,	Sample Depth							L		
	*	10.000	S:	DOCUMENTE											2/15/2018	2/15/2018	2/15/2018	2/15/2018	2/15/2018	2/15/2018	Date	Collection	TO Mulliper.	DO All makes		Invoice To:	Project Location:	Project Name/Number: MC SOUTHEAST BATTERY		
Received By:	Received By:	1	Received By:	D BEI OW EA		TRE	Lev	Lev	Lev						9:00	9:00	9:00	9:00	9:00	9:00	Time			Midland TX, 79701	Attn: Robert Mcneill 600 W. Illinois Ave.	COG Operating LLC	ion:	Number: EAST BAT	Projec	
ву:	By:	1	By:	CH TIME C		TRRP Checklist	Level 3 (CLP Forms)	Level III Std QC+ Forms	Level II Std QC	Data					S	s	S	S	S	co	Matrix bo			K, 79701	rt Mcneill nois Ave.	ating LLC		TERY	Project Information	
		mine	1	AMDI EG C		st	orms)	C+ Forms		Deliverab	-	-		-			51				# of C								ion	
		100	7-12	HANGE D						Data Deliverable Information											NaOH/Zn Acetate	Numbe								
Cus			7-12-18 Relinguished By:	усствоно			l us	TR	Le	ion											HNO3 H2SO4	Number of preserved bottles								
Custody Seal #	Relinquished By:	re.	nguishe	N INCI I			UST / RG -411	TRRP Level IV	vel IV (F		F			H							NaOH NaHSO4	erved bo								
al#	d By:		d By:	DINIC CO			411	N	Level IV (Full Data Pkg /raw data)		E	İ										ottles								
		ene	SON CAND	III dalai					Pkg /raw		H	H	H	-	×	×	×	×	×	×	TPH Ext	tend	led						1	
Pres			CHACKL	EINEDV					data)						×	×	×	×	×	×	BTEX								Ī	
erved whe	Date Time:	8/01/2	Date Time:								H				×	×	×	×	×	×	CHLOR	IDE	S		-				+	Analytic
re applicab	6:	1.	6 % P	-	FED-EX				5/00	Notes:			I																	Analytical Information
e	Recei	10	Réce		FED-EX / UPS: Tracking #				0	S	L	9	0	9	C i	Tom														ion
- P	Received By:	1	Received By:		acking #				-,		H	0	recte	(6-23	CE:(0-6: -0.2°C)	Tomn: N							-						4	
lce		1							PN				d Ter	(6-23: +0.2°C)	0.20	U														
Cooler Temp.	ľ		7						600			-	Corrected Temp: 3	0,0	0															
Temp.	0		6						ong							R		3			Fie									
Therm	1	1	3					F	9/10			1				IR ID:R-8					Field Comments	A = Air	W=WW	WI = Wipe	SL = Sludge OW =Ocean/	P = Product SW = Surfac	GW =Gr	S = Soil/Se	W - W-	Matrix
Thermo, Corr. Factor	0016,	01 15	2)10					49:5					-	j	Ĩ		1				rents		WW= Waste Water	ipe	SL = Sludge OW =Ocean/Sea Water	P = Product SW = Surface water	GW =Ground Water DW = Drinking Water	S = Soil/Sed/Solid		Matrix Codes

Page 28 of 29



XENCO Laboratories Prelogin/Nonconformance Report- Sample Log-In



Client: COG Operating LLC

Date/ Time Received: 02/19/2018 09:08:34 AM

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient

Work Order #: 576847

Temperature Measuring device used: r8

	Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?		3
#2 *Shipping container in good condition	?	Yes
#3 *Samples received on ice?		Yes
#4 *Custody Seals intact on shipping cor	ntainer/ cooler?	N/A
#5 Custody Seals intact on sample bottle	es?	N/A
#6*Custody Seals Signed and dated?		N/A
#7 *Chain of Custody present?		Yes
#8 Any missing/extra samples?		No
#9 Chain of Custody signed when relinque	uished/ received?	Yes
#10 Chain of Custody agrees with sample	e labels/matrix?	Yes
#11 Container label(s) legible and intact	?	Yes
#12 Samples in proper container/ bottle?)	Yes
#13 Samples properly preserved?		Yes
#14 Sample container(s) intact?		Yes
#15 Sufficient sample amount for indicat	ed test(s)?	Yes
#16 All samples received within hold time	e?	Yes
#17 Subcontract of sample(s)?		No
#18 Water VOC samples have zero head	dspace?	N/A
* Must be completed for after-hours de Analyst:	livery of samples prior to placing in PH Device/Lot#:	the refrigerator
Checklist completed by: Checklist reviewed by:	Katie Lowe Mms Moah	Date: 02/19/2018 Date: 02/19/2018
	Kelsey Brooks	



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

March 28, 2018

SHELDON HITCHCOCK

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: MC SOUTHEAST BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/21/18 12:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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 Total Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

28-Mar-18 14:17



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

Analytical Results For:

COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210 Project: MC SOUTHEAST BATTERY

Project Number: NONE GIVEN

Project Manager: SHELDON HITCHCOCK

Fax To: NONE

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH -4 3'	H800812-01	Soil	20-Mar-18 00:00	21-Mar-18 12:00
AH -4 4'	H800812-02	Soil	20-Mar-18 00:00	21-Mar-18 12:00
AH -4 5'	H800812-03	Soil	20-Mar-18 00:00	21-Mar-18 12:00

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whistoever 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 damage 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.

Celey D. Keene

28-Mar-18 14:17



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

Analytical Results For:

COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210 Project: MC SOUTHEAST BATTERY

Project Number: NONE GIVEN

Project Manager: SHELDON HITCHCOCK

Fax To: NONE

AH -4 3' H800812-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8032201	MS	22-Mar-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8032201	MS	22-Mar-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8032201	MS	22-Mar-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8032201	MS	22-Mar-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8032201	MS	22-Mar-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			90.7 %	72-	148	8032201	MS	22-Mar-18	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8032102	MS	22-Mar-18	8015B	
DRO >C10-C28*	14.7		10.0	mg/kg	1	8032102	MS	22-Mar-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8032102	MS	22-Mar-18	8015B	
Surrogate: 1-Chlorooctane			71.9 %	41	142	8032102	MS	22-Mar-18	8015B	
Surrogate: 1-Chlorooctadecane			74.2 %	37.6-	.147	8032102	MS	22-Mar-18	8015B	
			Green Ana	lytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	175		10.0	mg/kg wet	10	B803170	JDA	23-Mar-18	EPA300.0	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whistoever 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 damage 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.

Celey D. Keine

28-Mar-18 14:17



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

Analytical Results For:

COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210 Project: MC SOUTHEAST BATTERY

Project Number: NONE GIVEN

Project Manager: SHELDON HITCHCOCK

Fax To: NONE

AH -4 4' H800812-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8032201	MS	22-Mar-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8032201	MS	22-Mar-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8032201	MS	22-Mar-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8032201	MS	22-Mar-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8032201	MS	22-Mar-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			93.5 %	72-1	48	8032201	MS	22-Mar-18	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8032102	MS	22-Mar-18	8015B	
DRO >C10-C28*	374		10.0	mg/kg	1	8032102	MS	22-Mar-18	8015B	
EXT DRO >C28-C36	73.1		10.0	mg/kg	1	8032102	MS	22-Mar-18	8015B	
Surrogate: 1-Chlorooctane			84.9 %	41-1	42	8032102	MS	22-Mar-18	8015B	
Surrogate: 1-Chlorooctadecane			111 %	37.6-	147	8032102	MS	22-Mar-18	8015B	
			Green Anal	ytical Labo	oratories					
Soluble (DI Water Extraction)										
Chloride	1600		50.0	mg/kg wet	50	B803170	JDA	23-Mar-18	EPA300.0	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whistoever 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 damage 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.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

28-Mar-18 14:17



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

Analytical Results For:

COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210 Project: MC SOUTHEAST BATTERY

Project Number: NONE GIVEN

Project Manager: SHELDON HITCHCOCK

Fax To: NONE

AH -4 5' H800812-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Volatile Organic Compounds by 1	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	8032201	MS	22-Mar-18	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	8032201	MS	22-Mar-18	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	8032201	MS	22-Mar-18	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	8032201	MS	22-Mar-18	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	8032201	MS	22-Mar-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			94.2 %	72-1	48	8032201	MS	22-Mar-18	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	8032102	MS	22-Mar-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8032102	MS	22-Mar-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8032102	MS	22-Mar-18	8015B	
Surrogate: 1-Chlorooctane			79.7 %	41-1	42	8032102	MS	22-Mar-18	8015B	
Surrogate: 1-Chlorooctadecane			81.5 %	37.6-	147	8032102	MS	22-Mar-18	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	13.4		10.0	mg/kg wet	10	B803170	JDA	23-Mar-18	EPA300.0	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whistoever 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 damage 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.

Celey D. Keine



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

Analytical Results For:

COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210 Project: MC SOUTHEAST BATTERY

Project Number: NONE GIVEN

Project Manager: SHELDON HITCHCOCK

Fax To: NONE

Reported: 28-Mar-18 14:17

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 8032201 - Volatiles										
Blank (8032201-BLK1)				Prepared &	Analyzed:	22-Mar-18				
Benzene	ND	0.050	mg/kg							
oluene	ND	0.050	mg/kg							
thylbenzene	ND	0.050	mg/kg							
otal Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
urrogate: 4-Bromofluorobenzene (PID)	0.0928		mg/kg	0.100		92.8	72-148			
CS (8032201-BS1)				Prepared &	Analyzed:	22-Mar-18				
Benzene	1.94	0.050	mg/kg	2.00		97.1	79.5-124			
oluene	2.14	0.050	mg/kg	2.00		107	75.5-127			
thylbenzene	2.15	0.050	mg/kg	2.00		108	77.7-125			
otal Xylenes	6.63	0.150	mg/kg	6.00		111	70.9-124			
urrogate: 4-Bromofluorobenzene (PID)	0.0914		mg/kg	0.100		91.4	72-148			
.CS Dup (8032201-BSD1)				Prepared &	Analyzed:	22-Mar-18				
Benzene	1.93	0.050	mg/kg	2.00		96.3	79.5-124	0.862	6.5	<u> </u>
Coluene	2.10	0.050	mg/kg	2.00		105	75.5-127	1.53	7.02	
thylbenzene	2.16	0.050	mg/kg	2.00		108	77.7-125	0.164	7.83	
Total Xylenes	6.65	0.150	mg/kg	6.00		111	70.9-124	0.207	7.78	
urrogate: 4-Bromofluorobenzene (PID)	0.0922		mg/kg	0.100		92.2	72-148			

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 ar any other cause whistoever 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 damage 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.

Celey D. Keene



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

Analytical Results For:

COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210 Project: MC SOUTHEAST BATTERY

Project Number: NONE GIVEN

Reported: 28-Mar-18 14:17

Project Manager: SHELDON HITCHCOCK

Fax To: NONE

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
D-4-k-9022102 C										

Blank (8032102-BLK1)				Prepared: 21-Ma	ar-18 Analyzed:	22-Mar-18			
GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C35	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Total TPH C6-C28	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	49.5		mg/kg	50.0	99.1	41-142			
Surrogate: 1-Chlorooctadecane	51.1		mg/kg	50.0	102	37.6-147			
LCS (8032102-BS1)				Prepared: 21-Ma	ar-18 Analyzed:	22-Mar-18			
GRO C6-C10	197	10.0	mg/kg	200	98.4	76.5-133			
DRO >C10-C28	208	10.0	mg/kg	200	104	72.9-138			
Total TPH C6-C28	405	10.0	mg/kg	400	101	78-132			
Surrogate: 1-Chlorooctane	51.1		mg/kg	50.0	102	41-142			
Surrogate: 1-Chlorooctadecane	53.4		mg/kg	50.0	107	37.6-147			
LCS Dup (8032102-BSD1)				Prepared: 21-Ma	ar-18 Analyzed:	22-Mar-18			
GRO C6-C10	195	10.0	mg/kg	200	97.3	76.5-133	1.10	20.6	
DRO >C10-C28	210	10.0	mg/kg	200	105	72.9-138	0.803	20.6	
Total TPH C6-C28	404	10.0	mg/kg	400	101	78-132	0.117	18	
Surrogate: 1-Chlorooctane	50.3		mg/kg	50.0	101	41-142			
Surrogate: 1-Chlorooctadecane	52.7		mg/kg	50.0	105	37.6-147			

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 ar 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 damage 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 su 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

28-Mar-18 14:17

RPD

Limit

Notes



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

%REC

Limits

RPD

Analytical Results For:

COG OPERATING P. O. BOX 1630 ARTESIA NM, 88210

Analyte

Project: MC SOUTHEAST BATTERY

Spike

Level

Source

Result

%REC

Project Number: NONE GIVEN

Project Manager: SHELDON HITCHCOCK

Fax To: NONE

Soluble (DI Water Extraction) - Quality Control

Green Analytical Laboratories

Units

Reporting

Limit

Result

Batch B803170 - General Prep - Wet	Chem							
Blank (B803170-BLK1)			Prepared & Ana	alyzed: 23-Mar-18				
Chloride	ND	10.0 mg/kg wet						
LCS (B803170-BS1)	(B803170-BS1) Prepared & Analyzed: 23-Mar-18							
Chloride	234	10.0 mg/kg wet	250	93.6	85-115			
LCS Dup (B803170-BSD1)			Prepared & Ana	alyzed: 23-Mar-18				
Chloride	236	10.0 mg/kg wet	250	94.6	85-115	1.06	20	

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 ar 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 damage 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.

Celey D. Keine



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

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 daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar any other cause whistoever 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 damage 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.

Celey D. Keene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	e: Concho Resources		8/11/70	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	ANALYSIS REQUEST
Project Manage	Project Manager: Sheldon Hitchcock		P.O. #:		
Address: 240	Address: 2407 Pecos Avenue		Company: COG		
city: Artesia	State: NM	// zip: 88210	Attn: Robert McNeill	eii	
Phone #:575-703-6475	.703-6475 Fax#:		Address:		
Project #:		Project Owner: Concho	City:		
Project Name:	MC Southeast Battery	7	State: Zip:		
Project Location:	Lea County		#		
Sampler Name:	Church		Fax #:		
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	NE	
Lab I.D.	Sample I.D.)RAB OR (C)OMP CONTAINERS ROUNDWATER ASTEWATER DIL L	THER: DID/BASE: E/COOL THER:	PH EXTE FEY IHLORIDES	
HAMOSIZ	AH-4 3'	GI W SC	AC IC	13	
2	AH-4 41	6 1	\)	
W	AH 4 5'	6 .		1	
				,11	
PLEASE NOTE: Liability a analyses. All claims includi service. In no event shall C affiliates or successors aris	PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or text, 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 consequental damages, including without initiation, business interruptions, loss of use, or loss of profits incurred by Client, usually affiliates or successors arising out of or related to the performance of services hereunder by Cardinal regardless of whether such claims is based upon any of the above stated response or cheories.	for any claim arising whether based in contract be deemed waived unless made in writing an iding without limitation, business interruptions, by Cardinal, regardless of whether such claim by Cardinal, regardless of whether such claim.	It or tort, shall be limited to the amount paid of received by Cardinal within 30 days after loss of profits incurred by closs of use, or loss of profits incurred by closs of use, or loss of profits incurred free is based upon any of the above stated reads	by the client for the completion of the applicable entitle substitution of the applicable entitle substitution for the construction of the constru	
Relinquished By: Relinquished By:	y: Date: 21-18	Received By:		Phone Result:	Add'l Phone #: Add'l Fax #:
Delivered By		Sample Condition Cool Infact Cool Infact	š		
Sampler - UPS	Sampler - UPS - Bus - Other:	TYPS TYPS	1		

APPENDIX III

Form C-141

<u>District I</u> 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**

Revised April 3, 2017

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.

			Rele	ease Notific	cation	and Co	orrective A	ction					
						OPERA	ΓOR		Initi	al Report		Final Report	
				C (OGRID# 229			bert McNeill						
				nd TX 79701			No.: 432-683-74						
Facility Nar	ne: MC So	outheast Ba	ttery		1	acility Typ	e: Tank Batter	<u>ry</u>					
Surface Ow	ner: BLM			Mineral C)wner: I	Federal API No.:							
				LOCA	ATION	OF RE	LEASE						
Unit Letter E	Section 21	Township 17S	Range 32E	Feet from the	North/S	South Line	Feet from the	East/W	est Line	County	County Lea		
			L	atitude: 32.820	527 Lo i	ngitude: -10	03.765465 NAD	083					
				NAT	URE	OF REL	EASE						
Type of Release: Oil & Produced Water						Volume of 10bbls Oil	Release: & 180bbls PW			Recovered: & 175bbls			
Source of Re	lease: Heate	er Treater				Date and F 1/4/2018	Iour of Occurrence	ce:		Hour of Dis	covery	:	
Was Immedia	ate Notice C	Given?				1/4/2018 1/4/2018 4:30am If YES, To Whom?							
			Yes	No Not R	equired	Oliva Yu-l							
						Shelly Tucker-BLM							
By Whom? Rebecca Haskell						Date and Hour: 1/4/2018 12:34pm If YES, Volume Impacting the Watercourse.							
Was a Watercourse Reached? ☐ Yes ☑ No						11 YES, Volume Impacting the Watercourse.							
If a Watercou	irse was Im	pacted, Descri	ibe Fully.'	*		l							
Describe Cau	se of Proble	em and Reme	dial Actio	n Taken.*									
Δ gasket on t	he heater tr	eater failed re	culting in	the release of ann	rovimate	ely 10bbls of	oil and 180bbls o	of produc	ed water '	The gasket v	vac ren	laced	
		and Cleanup A			TOXIIIacc	ary 1000is or	on and 100001s 0	n produc	cu water.	The gasket v	vas rep	iaccu.	
	6.1 61										4001	1152 4	
							verspray in the pa Il area evaluated f						
vacuum truck was dispatched to recover freestanding fluids Concho will will present a remediation work plan to the NMOCD for approval prior to													
							nd perform correc arked as "Final R						
							on that pose a thr						
or the environ	nment. In a	ddition, NMC	CD accep				e the operator of						
federal, state, or local laws and/or regulations.													
						OIL CONSERVATION DIVISION							
Signature:	Shald.	on Alita											
Signature: C	710004	1) Fund	~			Approved by	Environmental S	pecialist	:				
Printed Name	e: Sheldon I	L. Hitchcock											
Title: HSE C	oordinator					Approval Da	te:	F	Expiration	Date:			
									ranon				
E-mail Addre	ss: slhitche	ock@concho.	com			Conditions of	f Approval:		Attached				

Phone: 575-746-2010

Date: 1/8/2018

^{*} Attach Additional Sheets If Necessary

APPENDIX IV

Form C-141

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

Revised April 3, 2017 Submit 1 Copy to appropriate District Office in

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.

			Rele	ease Notific	catio	on and Corrective Action							
						OPERA'	ΓOR		☐ Initia	al Report	\boxtimes	Final Report	
				C (OGRID# 229	137)		bert McNeill						
				nd TX 79701			No.: 432-683-74						
Facility Nar	ne: MC S	outheast Ba	ttery			Facility Type: Tank Battery							
Surface Ow	ner: BLM			Mineral (Owner:	: Federal API No.:							
				LOCA	ATIO	N OF RE	LEASE						
Unit Letter E	Section 21	Township 17S	Range 32E	Feet from the	North	n/South Line	Feet from the	East/V	Vest Line	County	Lea		
	Latitude: 32.820527 Longitude: -103.765465 NAD83												
				NAT	TURE	OF REL							
Type of Release: Oil & Produced Water						Volume of Release: 10bbls Oil & 180bbls PW				Recovered:	PW/		
Source of Release: Heater Treater						Hour of Occurrence	e:		Oil & 175bbls PW and Hour of Discovery:				
Was Immediate Notice Given?					If YES, To			1/4/2010	4.30 u m				
☐ Yes ☐ No ☐ Not Required						Shelly Tucker-BLM							
By Whom? Rebecca Haskell						Date and Hour: 1/4/2018 12:34pm							
Was a Watercourse Reached? ☐ Yes ☒ No						If YES, Volume Impacting the Watercourse.							
If a Watercourse was Impacted, Describe Fully.*													
Describe Cau	ise of Probl	em and Reme	dial Action	n Taken.*									
					oroxima	tely 10bbls of	oil and 180bbls o	of produc	ed water.	Γhe gasket v	was rep	laced.	
Describe Are	a Affected	and Cleanup A	Action Tak	en.*									
							verspray in the pa ve been conducted						
I hereby certify that the information given above is true and complete to t						the best of my knowledge and understand that pursuant to NMOCD rules and notifications and perform corrective actions for releases which may endanger							
							arked as "Final R on that pose a thr						
or the environ	nment. In a	ddition, NMC	OCD accep				e the operator of						
federal, state,	or local lav	ws and/or regu	ılations.		I	OIL CONSEDUATION DIVISION							
						OIL CONSERVATION DIVISION							
Λ													
	show	New				Approved by Environmental Specialist:							
Signature:		•				Buttan Hall							
Printed Name	e: Dakota N	eel					(D.	ulta	y Ha				
Title: HSE C	oordinator					Approval Da	te: 5/3/2023	I	Expiration	Date: N/A			
E-mail Addre	ess: dneel20	@concho.com				Conditions o				Attached			
Date: 3/2/201	19	Pho	ne: 575-74	16-2010		none					_		

^{*} Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 206282

CONDITIONS

Operator:	OGRID:
Spur Energy Partners LLC	328947
9655 Katy Freeway	Action Number:
Houston, TX 77024	206282
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Create: By	d Condition	Condition Date
bhall	None	5/3/2023