



Lupe Carrasco
Environmental Coordinator

January 15, 2015

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

Re: McIntyre B#7
30-015-31561
Sec. 20, T17S-R30E
Eddy County, NM

Mr. Mike Bratcher,

COG Operating LLC would like to submit for your consideration the enclosed work plan for the above captioned well. The plan is in response to the C-141 initial report dated October 2, 2014.

Background

The release was caused by a corroded flow line resulting in the release of 5 barrels of oil and 10 barrels of produced water of which 3 barrels of oil and 8 barrels of produced water were recovered. The release impacted an area in the pasture ranging from 3-10' in width by approximately 330' in length. Upon discovery of the release and recovery of standing fluid, the impacted area was treated with Micro Blaze®.

Groundwater

Based on the Chevron Trend Maps, the release area would be classified at a site ranking of Zero due to the depth of groundwater at greater than 250'.

Soil Assessment and Analytical Results

Initial soil samples were taken on October 10, 2014 with the results and approximate locations depicted on the attached Site Diagram as S1, S2, S3, S4, and S5.

Sample results indicate that TPH and BTEX RRALs are achieved at a depth of 1' for sampling sites S2, S3, S4, and S5. S1 achieved the desired RRAL at 2' depth. While sampling S4 & S5 a liner was encountered at 3' depth. A liner at this depth is consistent with NMOCD approved reclamation methods for immobilizing chlorides. The elevated chloride levels below the depth of 3' and previously disturbed soil are suggestive of a previous release or pit. Once the liner was breached, the decision was made to sample to the extent of the backhoe for delineation purposes.

Work Plan

COG Operating LLC proposes the following remediation plan:

- **S1:** Excavate down to 1' and haul for disposal. The area of 1-2' would be broken up using the hoe from the back hoe as to promote tillage and aeration. The excavated area would be backfilled with clean top soil.
- **S2 –S5:** This area would not be excavated, but would be broken up using the hoe from the backhoe as to promote tillage and aeration. Note areas S4 & S5: No excavation would be performed in this area due to the low chloride levels at a depth of 1-3' and the existing liner.

All impacted material excavated will be hauled to an approved NMOCD facility for disposal. Although the topography of the area is of a dunal complex with not much vegetation between dunes or impacted areas, the excavated or disturbed areas will be reseeded in the spring of 2015 with a BLM approved seed mixture.

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

Sincerely,



Lupe Carrasco
Environmental Coordinator

Enclosed:

- (1) Site Diagram and Summary Table
- (2) Laboratory Analysis
- (3) C-141 Initial (copy)

McIntyre B #7

August 8, 2014

Sec. 20, T17S-R30E

Released: 5 B/O; 10 B/PW
Recovered: 3 B/O; 8 B/PW

Legend
Release Area

S/L	GRO	DRO	TPH	BTEX	CI-
1'	488	5760	6248	11.9	ND
2'	119	1080	1199	1.61	ND
3'	ND	ND	ND	ND	ND
4'	ND	ND	ND	ND	ND
6'					ND
8'					64
10'					304
S2	GRO	DRO	TPH	BTEX	CI-
1'	10.9	51.8	62.7	ND	ND
2'	ND	ND	ND	ND	ND
3'	ND	ND	ND	ND	ND
4'	ND	ND	ND	ND	144
6'					96
8'					96
10'					208
S3	GRO	DRO	TPH	BTEX	CI-
1'	48.7	802	850.7	ND	128
2'	ND	ND	ND	ND	752
3'	ND	ND	ND	ND	1660
4'	ND	ND	ND	ND	5600
6'					11200
8'					3360
10'					224
S4	GRO	DRO	TPH	BTEX	CI-
1'	168	698	866	3.33	ND
2'	435	1470	ND	29.1	464
3'					3040
4'					2200
6'					8260
S5	GRO	DRO	TPH	BTEX	CI-
1'	ND	12.8	12.8	ND	ND
2'	ND	ND	ND	ND	ND
3'					ND
4'					688
6'					14100
8'					19800
10'					11300





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

November 05, 2014

LUPE CARRASCO

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: MCINTYRE B #7

Enclosed are the results of analyses for samples received by the laboratory on 10/31/14 13:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 10/31/2014
Reported: 11/05/2014
Project Name: MCINTYRE B #7
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/27/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1-1' (H403370-01)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	11/03/2014	ND	1.91	95.7	2.00	0.0000498	
Toluene*	0.271	0.200	11/03/2014	ND	1.82	90.9	2.00	0.325	
Ethylbenzene*	3.22	0.200	11/03/2014	ND	1.74	87.2	2.00	1.27	
Total Xylenes*	8.38	0.600	11/03/2014	ND	5.22	87.0	6.00	1.55	
Total BTX	11.9	1.20	11/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/04/2014	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	488	50.0	11/03/2014	ND	200	99.8	200	2.75		
DRO >C10-C28	5760	50.0	11/03/2014	ND	204	102	200	3.74		

Surrogate: 1-Chlorooctane 230 % 47.2-157

Surrogate: 1-Chlorooctadecane 237 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 10/31/2014
Reported: 11/05/2014
Project Name: MCINTYRE B #7
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/27/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1-2' (H403370-02)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	11/03/2014	ND	1.91	95.7	2.00	0.0000498	
Toluene*	<0.200	0.200	11/03/2014	ND	1.82	90.9	2.00	0.325	
Ethylbenzene*	0.351	0.200	11/03/2014	ND	1.74	87.2	2.00	1.27	
Total Xylenes*	1.26	0.600	11/03/2014	ND	5.22	87.0	6.00	1.55	
Total BTEX	1.61	1.20	11/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/04/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	119	50.0	11/03/2014	ND	200	99.8	200	2.75		
DRO >C10-C28	1080	50.0	11/03/2014	ND	204	102	200	3.74		

Surrogate: 1-Chlorooctane 165 % 47.2-157

Surrogate: 1-Chlorooctadecane 184 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 10/31/2014
Reported: 11/05/2014
Project Name: MCINTYRE B #7
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/27/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1-3' (H403370-03)
BTEX 8021B

mg/kg

Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/03/2014	ND	1.91	95.7	2.00	0.0000498	
Toluene*	<0.050	0.050	11/03/2014	ND	1.82	90.9	2.00	0.325	
Ethylbenzene*	<0.050	0.050	11/03/2014	ND	1.74	87.2	2.00	1.27	
Total Xylenes*	<0.150	0.150	11/03/2014	ND	5.22	87.0	6.00	1.55	
Total BTEX	<0.300	0.300	11/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 61-154

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/04/2014	ND	400	100	400	3.92	

TPH 8015M

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/03/2014	ND	200	99.8	200	2.75	
DRO >C10-C28	<10.0	10.0	11/03/2014	ND	204	102	200	3.74	

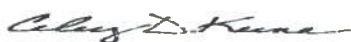
Surrogate: 1-Chlorooctane 152 % 47.2-157

Surrogate: 1-Chlorooctadecane 174 % 52.1-176

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 10/31/2014
Reported: 11/05/2014
Project Name: MCINTYRE B #7
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/27/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1-4' (H403370-04)
BTEX 8021B

mg/kg

Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/03/2014	ND	1.91	95.7	2.00	0.0000498	
Toluene*	<0.050	0.050	11/03/2014	ND	1.82	90.9	2.00	0.325	
Ethylbenzene*	<0.050	0.050	11/03/2014	ND	1.74	87.2	2.00	1.27	
Total Xylenes*	<0.150	0.150	11/03/2014	ND	5.22	87.0	6.00	1.55	
Total BTEX	<0.300	0.300	11/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 61-154

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/04/2014	ND	400	100	400	3.92	

TPH 8015M

mg/kg

Analyzed By: MS

S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/03/2014	ND	200	99.8	200	2.75	
DRO >C10-C28	<10.0	10.0	11/03/2014	ND	204	102	200	3.74	

Surrogate: 1-Chlorooctane 154 % 47.2-157

Surrogate: 1-Chlorooctadecane 177 % 52.1-176

Sample ID: S1-6' (H403370-05)
Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/04/2014	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:COG OPERATING
LUPE CARRASCO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONEReceived: 10/31/2014
Reported: 11/05/2014
Project Name: MCINTYRE B #7
Project Number: NONE GIVEN
Project Location: NOT GIVENSampling Date: 10/27/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson**Sample ID: S1-8' (H403370-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/04/2014	ND	400	100	400	3.92	

Sample ID: S1-10' (H403370-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	11/04/2014	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 10/31/2014
Reported: 11/05/2014
Project Name: MCINTYRE B #7
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/27/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2-1' (H403370-08)
BTEX 8021B

mg/kg

Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/03/2014	ND	1.91	95.7	2.00	0.0000498	
Toluene*	<0.050	0.050	11/03/2014	ND	1.82	90.9	2.00	0.325	
Ethylbenzene*	<0.050	0.050	11/03/2014	ND	1.74	87.2	2.00	1.27	
Total Xylenes*	<0.150	0.150	11/03/2014	ND	5.22	87.0	6.00	1.55	
Total BTEX	<0.300	0.300	11/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 61-154

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/04/2014	ND	416	104	400	3.92	

TPH 8015M

mg/kg

Analyzed By: MS

S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	10.9	10.0	11/03/2014	ND	200	99.8	200	2.75	
DRO >C10-C28	51.8	10.0	11/03/2014	ND	204	102	200	3.74	

Surrogate: 1-Chlorooctane 157 % 47.2-157

Surrogate: 1-Chlorooctadecane 184 % 52.1-176

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 10/31/2014
Reported: 11/05/2014
Project Name: MCINTYRE B #7
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/27/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2-2' (H403370-09)
BTEX 8021B

mg/kg

Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/03/2014	ND	1.91	95.7	2.00	0.0000498	
Toluene*	<0.050	0.050	11/03/2014	ND	1.82	90.9	2.00	0.325	
Ethylbenzene*	<0.050	0.050	11/03/2014	ND	1.74	87.2	2.00	1.27	
Total Xylenes*	<0.150	0.150	11/03/2014	ND	5.22	87.0	6.00	1.55	
Total BTEX	<0.300	0.300	11/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 61-154

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/04/2014	ND	416	104	400	3.92	

TPH 8015M

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/03/2014	ND	200	99.8	200	2.75	
DRO >C10-C28	<10.0	10.0	11/03/2014	ND	204	102	200	3.74	


Surrogate: 1-Chlorooctane 155 % 47.2-157

Surrogate: 1-Chlorooctadecane 174 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 10/31/2014
Reported: 11/05/2014
Project Name: MCINTYRE B #7
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/27/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2-3' (H403370-10)
BTEX 8021B

mg/kg

Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/03/2014	ND	1.91	95.7	2.00	0.0000498	
Toluene*	<0.050	0.050	11/03/2014	ND	1.82	90.9	2.00	0.325	
Ethylbenzene*	<0.050	0.050	11/03/2014	ND	1.74	87.2	2.00	1.27	
Total Xylenes*	<0.150	0.150	11/03/2014	ND	5.22	87.0	6.00	1.55	
Total BTEX	<0.300	0.300	11/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 61-154

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/04/2014	ND	416	104	400	3.92	

TPH 8015M

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/03/2014	ND	200	99.8	200	2.75	
DRO >C10-C28	<10.0	10.0	11/03/2014	ND	204	102	200	3.74	

Surrogate: 1-Chlorooctane 143 % 47.2-157

Surrogate: 1-Chlorooctadecane 165 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 10/31/2014
Reported: 11/05/2014
Project Name: MCINTYRE B #7
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/27/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2-4' (H403370-11)

BTEX 8021B		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/03/2014	ND	1.91	95.7	2.00	0.0000498	
Toluene*	<0.050	0.050	11/03/2014	ND	1.82	90.9	2.00	0.325	
Ethylbenzene*	<0.050	0.050	11/03/2014	ND	1.74	87.2	2.00	1.27	
Total Xylenes*	<0.150	0.150	11/03/2014	ND	5.22	87.0	6.00	1.55	
Total BTEX	<0.300	0.300	11/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 61-154

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/04/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/03/2014	ND	200	99.8	200	2.75	
DRO >C10-C28	<10.0	10.0	11/03/2014	ND	204	102	200	3.74	

Surrogate: 1-Chlorooctane 153 % 47.2-157

Surrogate: 1-Chlorooctadecane 171 % 52.1-176

Sample ID: S2-6' (H403370-12)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/04/2014	ND	416	104	400	3.92	

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Analytical Results For:

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

Received: 10/31/2014
Reported: 11/05/2014
Project Name: MCINTYRE B #7
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/27/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2-8' (H403370-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	11/04/2014	ND	416	104	400	3.92		

Sample ID: S2-10' (H403370-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	11/04/2014	ND	416	104	400	3.92		

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Analytical Results For:

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

Received: 10/31/2014
Reported: 11/05/2014
Project Name: MCINTYRE B #7
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/27/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S3-1' (H403370-15)
BTEX 8021B

mg/kg

Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	11/03/2014	ND	1.91	95.7	2.00	0.0000498	
Toluene*	<0.200	0.200	11/03/2014	ND	1.82	90.9	2.00	0.325	
Ethylbenzene*	<0.200	0.200	11/03/2014	ND	1.74	87.2	2.00	1.27	
Total Xylenes*	<0.600	0.600	11/03/2014	ND	5.22	87.0	6.00	1.55	
Total BTEX	<1.20	1.20	11/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 61-154

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/04/2014	ND	416	104	400	3.92	

TPH 8015M

mg/kg

Analyzed By: MS

S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	48.7	10.0	11/03/2014	ND	200	99.8	200	2.75	
DRO >C10-C28	802	10.0	11/03/2014	ND	204	102	200	3.74	

Surrogate: 1-Chlorooctane 161 % 47.2-157

Surrogate: 1-Chlorooctadecane 178 % 52.1-176

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Analytical Results For:

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

Received: 10/31/2014
Reported: 11/05/2014
Project Name: MCINTYRE B #7
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/27/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S3-2' (H403370-16)
BTEX 8021B

mg/kg

Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2014	ND	1.94	97.0	2.00	2.30	
Toluene*	<0.050	0.050	11/04/2014	ND	1.85	92.5	2.00	2.46	
Ethylbenzene*	<0.050	0.050	11/04/2014	ND	1.80	89.8	2.00	1.79	
Total Xylenes*	<0.150	0.150	11/04/2014	ND	5.39	89.8	6.00	1.88	
Total BTEX	<0.300	0.300	11/04/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 61-154

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	11/04/2014	ND	416	104	400	3.92	

TPH 8015M

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/03/2014	ND	200	99.8	200	2.75	
DRO >C10-C28	<10.0	10.0	11/03/2014	ND	204	102	200	3.74	

Surrogate: 1-Chlorooctane 139 % 47.2-157

Surrogate: 1-Chlorooctadecane 157 % 52.1-176

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Analytical Results For:

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

 Received: 10/31/2014
 Reported: 11/05/2014
 Project Name: MCINTYRE B #7
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/27/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S3-3' (H403370-17)
BTEX 8021B

mg/kg

Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2014	ND	1.94	97.0	2.00	2.30	
Toluene*	<0.050	0.050	11/04/2014	ND	1.85	92.5	2.00	2.46	
Ethylbenzene*	<0.050	0.050	11/04/2014	ND	1.80	89.8	2.00	1.79	
Total Xylenes*	<0.150	0.150	11/04/2014	ND	5.39	89.8	6.00	1.88	
Total BTEX	<0.300	0.300	11/04/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 61-154

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1660	16.0	11/04/2014	ND	416	104	400	3.92	

TPH 8015M

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/03/2014	ND	200	99.8	200	2.75	
DRO >C10-C28	<10.0	10.0	11/03/2014	ND	204	102	200	3.74	

Surrogate: 1-Chlorooctane 140 % 47.2-157

Surrogate: 1-Chlorooctadecane 158 % 52.1-176

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Analytical Results For:

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

Received: 10/31/2014
Reported: 11/05/2014
Project Name: MCINTYRE B #7
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/27/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S3-4' (H403370-18)
BTEX 8021B
mg/kg
Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2014	ND	1.94	97.0	2.00	1.54	
Toluene*	<0.050	0.050	11/05/2014	ND	1.85	92.5	2.00	2.03	
Ethylbenzene*	<0.050	0.050	11/05/2014	ND	1.79	89.5	2.00	1.62	
Total Xylenes*	<0.150	0.150	11/05/2014	ND	5.38	89.7	6.00	1.55	
Total BTEX	<0.300	0.300	11/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 61-154

Chloride, SM4500Cl-B
mg/kg
Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	11/04/2014	ND	416	104	400	3.92	

TPH 8015M
mg/kg
Analyzed By: ms

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/04/2014	ND	200	99.8	200	2.75	
DRO >C10-C28	<10.0	10.0	11/04/2014	ND	204	102	200	3.74	

Surrogate: 1-Chlorooctane 80.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 85.5 % 52.1-176

Sample ID: S3-6' (H403370-19)
Chloride, SM4500Cl-B
mg/kg
Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11200	16.0	11/04/2014	ND	416	104	400	3.92	

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Analytical Results For:COG OPERATING
LUPE CARRASCO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONEReceived: 10/31/2014
Reported: 11/05/2014
Project Name: MCINTYRE B #7
Project Number: NONE GIVEN
Project Location: NOT GIVENSampling Date: 10/27/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson**Sample ID: S3-8' (H403370-20)**

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3360	16.0	11/04/2014	ND	416	104	400	3.92	

Sample ID: S3-10' (H403370-21)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/04/2014	ND	416	104	400	3.92	

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Analytical Results For:

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

 Received: 10/31/2014
 Reported: 11/05/2014
 Project Name: MCINTYRE B #7
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/27/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S4-1' (H403370-22)

BTEx 8021B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	11/05/2014	ND	1.94	97.0	2.00	1.54	
Toluene*	0.558	0.100	11/05/2014	ND	1.85	92.5	2.00	2.03	
Ethylbenzene*	0.700	0.100	11/05/2014	ND	1.79	89.5	2.00	1.62	
Total Xylenes*	2.07	0.300	11/05/2014	ND	5.38	89.7	6.00	1.55	
Total BTEX	3.33	0.600	11/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 61-154

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/04/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	168	10.0	11/03/2014	ND	200	99.8	200	2.75	
DRO >C10-C28	698	10.0	11/03/2014	ND	204	102	200	3.74	

Surrogate: 1-Chlorooctane 171 % 47.2-157

Surrogate: 1-Chlorooctadecane 190 % 52.1-176

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Analytical Results For:

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

Received: 10/31/2014
Reported: 11/05/2014
Project Name: MCINTYRE B #7
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/27/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S4-2' (H403370-23)

BTX 8021B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	11/05/2014	ND	1.94	97.0	2.00	1.54	
Toluene*	7.96	0.200	11/05/2014	ND	1.85	92.5	2.00	2.03	
Ethylbenzene*	6.53	0.200	11/05/2014	ND	1.79	89.5	2.00	1.62	
Total Xylenes*	14.6	0.600	11/05/2014	ND	5.38	89.7	6.00	1.55	
Total BTEX	29.1	1.20	11/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 61-154

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	11/04/2014	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	435	10.0	11/03/2014	ND	200	99.8	200	2.75	
DRO >C10-C28	1470	10.0	11/03/2014	ND	204	102	200	3.74	

Surrogate: 1-Chlorooctane 188 % 47.2-157

Surrogate: 1-Chlorooctadecane 187 % 52.1-176

Sample ID: S4-3' (H403370-24)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	11/04/2014	ND	416	104	400	3.92	

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Analytical Results For:COG OPERATING
LUPE CARRASCO
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONEReceived: 10/31/2014
Reported: 11/05/2014
Project Name: MCINTYRE B #7
Project Number: NONE GIVEN
Project Location: NOT GIVENSampling Date: 10/27/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson**Sample ID: S4-4' (H403370-25)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2200	16.0	11/04/2014	ND	416	104	400	3.92		

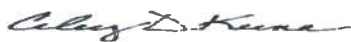
Sample ID: S4-6' (H403370-26)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8260	16.0	11/04/2014	ND	416	104	400	3.92		

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 10/31/2014
Reported: 11/05/2014
Project Name: MCINTYRE B #7
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/27/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S5-1' (H403370-27)

BTEX 8021B		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2014	ND	1.94	97.0	2.00	1.54	
Toluene*	0.066	0.050	11/05/2014	ND	1.85	92.5	2.00	2.03	
Ethylbenzene*	<0.050	0.050	11/05/2014	ND	1.79	89.5	2.00	1.62	
Total Xylenes*	<0.150	0.150	11/05/2014	ND	5.38	89.7	6.00	1.55	
Total BTEX	<0.300	0.300	11/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 61-154

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/04/2014	ND	416	104	400	3.92	

TPH 8015M		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/04/2014	ND	200	99.8	200	2.75	
DRO >C10-C28	12.8	10.0	11/04/2014	ND	204	102	200	3.74	

Surrogate: 1-Chlorooctane 95.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 108 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 10/31/2014
Reported: 11/05/2014
Project Name: MCINTYRE B #7
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/27/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S5-2' (H403370-28)

BTX 8021B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/05/2014	ND	1.94	97.0	2.00	1.54	
Toluene*	<0.050	0.050	11/05/2014	ND	1.85	92.5	2.00	2.03	
Ethylbenzene*	<0.050	0.050	11/05/2014	ND	1.79	89.5	2.00	1.62	
Total Xylenes*	<0.150	0.150	11/05/2014	ND	5.38	89.7	6.00	1.55	
Total BTX	<0.300	0.300	11/05/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 61-154

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/04/2014	ND	400	100	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/03/2014	ND	200	99.8	200	2.75	
DRO >C10-C28	<10.0	10.0	11/03/2014	ND	204	102	200	3.74	

Surrogate: 1-Chlorooctane 150 % 47.2-157

Surrogate: 1-Chlorooctadecane 173 % 52.1-176

Sample ID: S5-3' (H403370-29)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/04/2014	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/31/2014
 Reported: 11/05/2014
 Project Name: MCINTYRE B #7
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/27/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S5-4' (H403370-30)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	11/04/2014	ND	400	100	400	0.00	

Sample ID: S5-6' (H403370-31)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14100	16.0	11/04/2014	ND	400	100	400	0.00	

Sample ID: S5-8' (H403370-32)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19800	16.0	11/04/2014	ND	400	100	400	0.00	

Sample ID: S5-10' (H403370-33)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11300	16.0	11/04/2014	ND	400	100	400	0.00	

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* = Accredited Analyte

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Caley D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



BILL TO

ANALYSIS REQUEST

FOR LAB USE ONLY					
Lab I.D.					
Sample I.D.					
# CONTAINERS	MATRIX	PRESERV.	SAMPLING DATE	TIME	BTEX
(G)RAB OR (C)OMP.	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER :	ACID/BASE ICE / COOL OTHER	DATE	TIME	BTEX
H40337D	S1-1'		10/27/14	X	X
I	S1-2'		10/27/14	X	X
Z	S1-3'		10/27/14	X	X
3	S1-4'		10/27/14	X	X
5	S1-6'		10/27/14	X	X
5	S1-8'		10/27/14	X	X
9	S1-10'		10/27/14	X	X

analyses. All claims, including those for negligence and any other cause whatsoever, shall be asserted against the insurer at the time of the occurrence of the loss or damage. 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, service

5



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: COG Operating LLC		P.O. #:		BILL TO										ANALYSIS REQUEST																															
Project Manager: Lupe Carrasco		Company: COG Operating LLC																																											
Address: 2208 West Main		Attn: Robert McNeill																																											
City: Artesia		Address: 600 W Illinois																																											
Phone #: (575) 748-6940		City: Midland																																											
Project #:		State: TX																																											
Project Name: McIntyre B #7		Zip: 79701																																											
Project Location:		Phone #: (432) 221-0388																																											
Sampler Name: Lupe Carrasco		Fax #:																																											
FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING																																							
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER		ACID/BASE		ICE / COOL		OTHER		DATE		TIME		BTX		TPH		Chloride											
15		S3-1'																								10/27/14		X		X		X													
16		S3-2'																								10/27/14		X		X		X													
17		S3-3'																								10/27/14		X		X		X													
18		S3-4'																								10/27/14		X		X		X													
19		S3-6'																								10/27/14		X		X		X													
20		S3-8'																								10/27/14		X		X		X													
21		S3-10'																								10/27/14		X		X		X													
PLEASE NOTE: Liability and Damages. Cardinal's liability and ability to provide remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.		Relinquished By: <i>[Signature]</i>		Date: _____		Received By: <i>[Signature]</i>		Date: _____		Sample Condition		Checked By: <i>[Signature]</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #: _____		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #: _____		REMARKS: gcarasco@concho.com qmerket@concho.com																							
Relinquished By: <i>[Signature]</i>		Date: _____		Received By: <i>[Signature]</i>		Date: _____		Sample Condition		Checked By: <i>[Signature]</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #: _____		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #: _____																											
Delivered By: (Circle One)		Date: _____		Received By: <i>[Signature]</i>		Date: _____		Sample Condition		Checked By: <i>[Signature]</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #: _____		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #: _____																											
Sampler - UPS - Bus - Other:		FORM 996 R 2.0		Date: _____		Received By: <i>[Signature]</i>		Date: _____		Sample Condition		Checked By: <i>[Signature]</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #: _____		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #: _____																									



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: COG Operating LLC		P.O. #:		BILL TO											
Project Manager: Lupe Carrasco		Company: COG Operating LLC		ANALYSIS REQUEST											
Address: 2208 West Main		Attn: Robert McNeill													
City: Artesia		Address: 600 W Illinois													
Phone #: (575) 748-6940		City: Midland													
Fax #: (575) 748-6940		State: TX Zip: 79701													
Project #: Project Owner:		State: TX Zip: 79701													
Project Name: McIntyre B #7		Phone #: (432) 221-0388													
Project Location:		Fax #:													
Sampler Name: Lupe Carrasco		FOR LAB USE ONLY													
Lab I.D.		Sample I.D.													
HWD337D		(G)RAB OR (C)OMP.													
22		# CONTAINERS													
23		GROUNDWATER													
24		WASTEWATER													
25		SOIL													
26		OIL													
27		SLUDGE													
28		OTHER:													
29		ACID/BASE:													
30		ICE / COOL													
31		OTHER:													
32		DATE													
33		TIME													
34		BTX													
35		TPH													
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Relinquished By: _____ Date: _____ Received By: _____ Time: _____

Relinquished By: _____ Date: _____ Received By: _____ Time: _____

Delivered By: (Circle One) _____

FORM 996 R 2.0

Sampler: UPS Bus Other: _____

Sample Condition: ☒ Cool ☒ Intact ☒ Yes ☒ No

CHECKED BY: _____

REMARKS: _____

atrujillo@concho.com amerkel@concho.com

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

Fax Result: ☐ Yes ☐ No Add'l Fax #: _____

11/21



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: COG Operating LLC

Project Manager: Lupe Carrasco

Address: 2208 West Main

City: Artesia State: NM Zip: 88210

Phone #: (575) 748-6940 Fax #: Project Owner:

Project #: Project Name: McInyre B #7

Project Location: State: TX Zip: 79701

Phone #: (432) 221-0388

Sampler Name: Lupe Carrasco

FOR LAB USE ONLY

Lab I.D. Sample I.D.

H403370

21

28

29

30

31

34

33

SS-1'

SS-2'

SS-3'

SS-4'

SS-6'

SS-8'

SS-10'

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER

ACID/BASE

ICE / COOL

OTHER

DATE TIME

10/27/14

10/27/14

10/27/14

10/27/14

10/27/14

10/27/14

BTEX

TPH

Chloride

ANALYSIS REQUEST

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Relinquished By: Date: Received By: Date: Time: Received By: Date: Time: 10/24/14 1:05 PM

Relinquished By: Date: Time: Received By: Date: Time: 10/24/14 1:05 PM

Delivered By: (Circle One)

FORM 096 R 2.0 Sample - UPS - Bus - Other: 3.22

Phone Result: Yes No Add'l Phone #: Fax Result: Yes No Add'l Fax #: REMARKS: qcarrasco@concho.com amerket@concho.com aturillo@concho.com

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

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: COG Operating LLC	Contact: Robert McNeill
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No. 432-230-0077
Facility Name: McIntyre B #7	Facility Type: Well

Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-31561
------------------------	------------------------	----------------------

LOCATION OF RELEASE

Unit Letter M	Section 20	Township 17S	Range 30E	Feet from the 660'	North/South Line South	Feet from the 660'	East/West Line West	County Eddy
------------------	---------------	-----------------	--------------	-----------------------	---------------------------	-----------------------	------------------------	----------------

Latitude 32.8137724103499 Longitude -104.001670530599

NATURE OF RELEASE

Type of Release: Oil and Produced Water	Volume of Release: 5 bbls Oil ; 10 bbls PW	Volume Recovered: 3 bbls Oil ; 8 bbls PW
Source of Release: Flowline	Date and Hour of Occurrence: 9/15/2014 1:00 pm	Date and Hour of Discovery: 9/15/2014 1:00 pm
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*


Describe Cause of Problem and Remedial Action Taken.*

The release was caused by corroded flowline. Repairs were made to the line and a vacuum truck was dispatched to pick up all standing fluid.

Describe Area Affected and Cleanup Action Taken.*

The impacted area occurred at the NE corner of the location and ran into the pasture. The area was treated with microblaze. Concho will have the spill site sampled to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation work.

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

Signature: 	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Amanda Trujillo	Approved by Environmental Specialist:		
Title: Senior Environmental Coordinator	Approval Date:	Expiration Date:	
E-mail Address: atrujillo@concho.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: October 2, 2014	Phone: 575-748-6940		

* Attach Additional Sheets If Necessary