

September 18, 2015

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

Re: Harrier 35 Federal Com #1H
30-025-40572
Sec. 35, T25S-R32E
Lea County, NM

RECEIVED

By JKeyes at 1:47 pm, Sep 23, 2015

APPROVED

By JKeyes at 1:47 pm, Sep 23, 2015

Dr. Oberding,

COG Operating LLC would like to submit for your consideration the enclosed closure request for the above captioned well. The request is in response to the C-141 Initial report dated September 16, 2015.

Background

The release was caused by a lightning strike causing one of the produced water tanks to burn resulting in the release of 5 barrels of oil and 190 barrels of produced water. Of the fluid released, 4 barrels of oil and 180 barrels of produced water were recovered from the lined facility. A small amount of the release impacted the edge of the pad on the east side of the facility and the adjacent pasture.

Groundwater

Based on the Chevron Trend Maps, the release area would be classified at a site ranking of Zero with depth to groundwater at greater than 200’.

Soil Assessment and Analytical Results

Sample points and a sample summary table are depicted on the attached site diagram. S1 was taken on the east side of the facility where a small portion of the release impacted the edge of the pad along the berm. Analytical results for BTEX are non-detect at 1’ and 2’ with TPH detected at relatively low levels. Chloride results for S1 are elevated to a depth of 2’ with delineation resulting in a sharp decrease in concentration at 3’. S2 was taken in the adjacent pasture with results indicating BTEX and TPH to be non-detect and chloride levels to be negligible at a depth of 1’ and 2’. S3 was taken in an area of the pad south of the facility that showed signs of potential impact either from this release or a historic release. Sample results for this area were non-detect for BTEX and TPH with

chlorides resulting in non-detect at a depth of 1'. S4 was taken within the damaged portion of the lined facility with BTEX resulting in non-detect and a low concentration of TPH levels at a depth of 1'. Chloride levels at a depth of 1' are slightly elevated with delineation showing a sharp decrease in concentration at 2' and non-detect at 3' and 4'. A copy of the Analytical Results is attached for your consideration.

Work Plan

COG Operating LLC has excavated the area labeled as S1 to a depth of 2.5' and backfilled with like material. The area labeled as S2 has been scraped to a depth of 4-6" in order to remove any visible staining. No further action will be taken for the area labeled as S3. For the area represented by S4, the area will be scraped once the liner is removed and prior to reconstruction in order to remove any visible staining. The facility liner that will be replaced will immobilize any residual chlorides.

If there are no objections or further stipulations, COG Operating LLC will commence the reconstruction of the facility. Closure of the release is requested based on the low risk of any possible contamination to ground water and lining as a permissible practice for preventing the mitigation of chlorides. Please feel free to contact me with any questions or concerns at (575) 748-6933.

Sincerely,



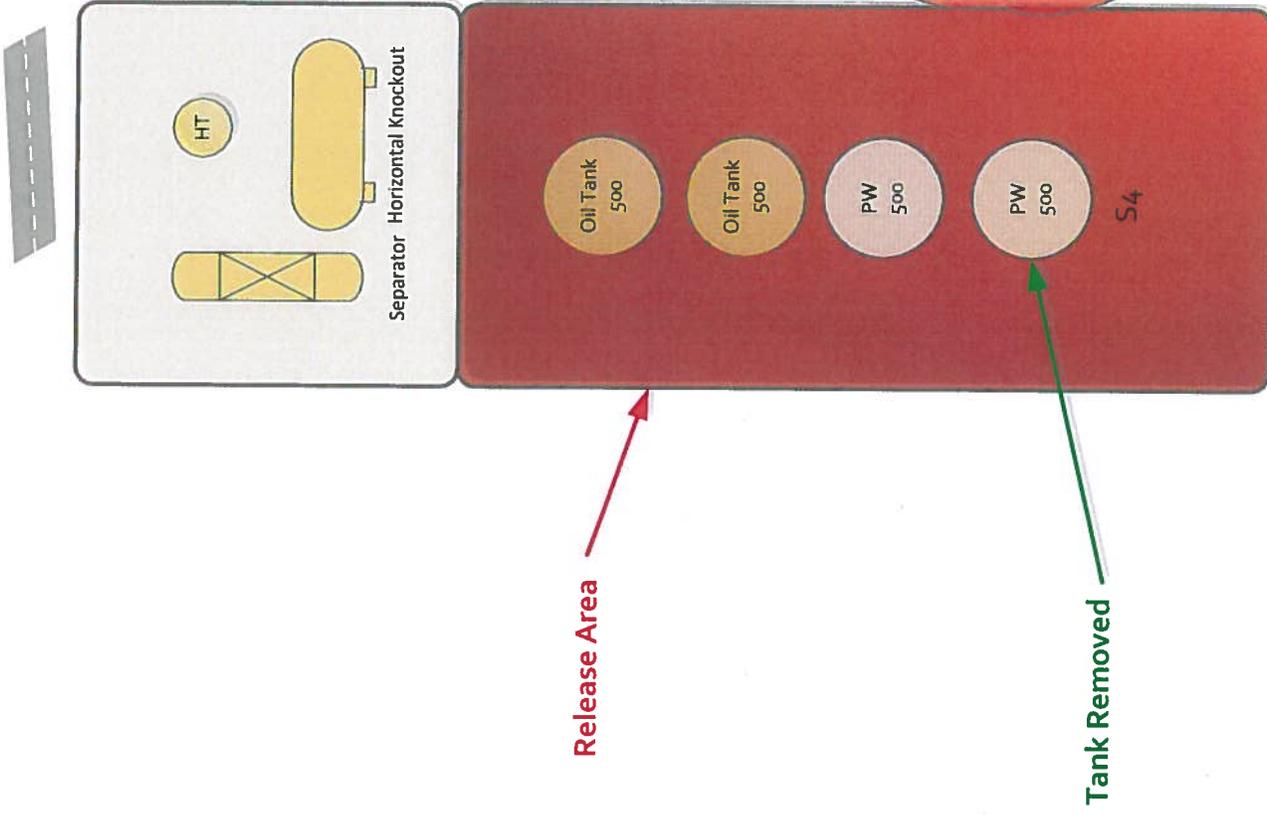
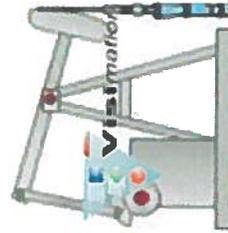
Lupe Carrasco
Environmental Coordinator

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

Harrier 35 Federal Com #1H

August 18, 2015

S1	BTEX	GRO	DRO	TPH	Cl-
1'	ND	ND	247	247	2560
2'	ND	ND	19	19	4640
3'					848
4'					128
S2	BTEX	GRO	DRO	TPH	Cl-
1'	ND	ND	ND	ND	48
2'	ND	ND			48
S3	BTEX	GRO	DRO	TPH	Cl-
1'	ND	ND	ND	ND	ND
2'	ND	ND	ND	ND	96
3'					128
4'					48
S4	BTEX	GRO	DRO	TPH	Cl-
1'	ND	ND	122	122	2120
2'	ND	ND	ND	ND	48
3'	ND	ND	ND	ND	ND
4'	ND	ND	ND	ND	ND



September 17, 2015

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

RE: HARRIER TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/11/15 12:15.

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:	09/11/2015	Sampling Date:	09/11/2015
Reported:	09/17/2015	Sampling Type:	Soil
Project Name:	HARRIER TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: S1-1' (H502404-01)

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/14/2015	ND	2.03	101	2.00	2.76	
Toluene*	<0.050	0.050	09/14/2015	ND	1.86	93.2	2.00	0.882	
Ethylbenzene*	<0.050	0.050	09/14/2015	ND	1.94	96.8	2.00	0.897	
Total Xylenes*	<0.150	0.150	09/14/2015	ND	6.67	111	6.00	0.713	
Total BTEX	<0.300	0.300	09/14/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 85 6-137

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	09/14/2015	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	09/11/2015	ND	185	92.4	200	1.46	
DRO >C10-C28	247	10.0	09/11/2015	ND	191	95.3	200	4.09	

Surrogate: 1-Chlorooctane 77.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 86.9 % 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:	09/11/2015	Sampling Date:	09/11/2015
Reported:	09/17/2015	Sampling Type:	Soil
Project Name:	HARRIER TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: S1-2' (H502404-02)

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	09/14/2015	ND	2.03	101	2.00	2.76		
Toluene*	<0.050	0.050	09/14/2015	ND	1.86	93.2	2.00	0.882		
Ethylbenzene*	<0.050	0.050	09/14/2015	ND	1.94	96.8	2.00	0.897		
Total Xylenes*	<0.150	0.150	09/14/2015	ND	6.67	111	6.00	0.713		
Total BTEX	<0.300	0.300	09/14/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4640	16.0	09/14/2015	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	09/11/2015	ND	185	92.4	200	1.46		
DRO >C10-C28	19.0	10.0	09/11/2015	ND	191	95.3	200	4.09		

Surrogate: 1-Chlorooctane 66.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 70.3 % 52.1-176

Sample ID: S1-3' (H502404-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	848	16.0	09/14/2015	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:	09/11/2015	Sampling Date:	09/11/2015
Reported:	09/17/2015	Sampling Type:	Soil
Project Name:	HARRIER TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: S1-4' (H502404-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	09/14/2015	ND	400	100	400	3.92		

Sample ID: S2-1' (H502404-05)

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	09/14/2015	ND	2.03	101	2.00	2.76		
Toluene*	<0.050	0.050	09/14/2015	ND	1.86	93.2	2.00	0.882		
Ethylbenzene*	<0.050	0.050	09/14/2015	ND	1.94	96.8	2.00	0.897		
Total Xylenes*	<0.150	0.150	09/14/2015	ND	6.67	111	6.00	0.713		
Total BTEX	<0.300	0.300	09/14/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/14/2015	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	09/11/2015	ND	185	92.4	200	1.46		
DRO >C10-C28	<10.0	10.0	09/11/2015	ND	191	95.3	200	4.09		

Surrogate: 1-Chlorooctane 67.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 70.6 % 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:	09/11/2015	Sampling Date:	09/11/2015
Reported:	09/17/2015	Sampling Type:	Soil
Project Name:	HARRIER TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: S2-2' (H502404-06)
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	09/14/2015	ND	2.03	101	2.00	2.76	
Toluene*	<0.050	0.050	09/14/2015	ND	1.86	93.2	2.00	0.882	
Ethylbenzene*	<0.050	0.050	09/14/2015	ND	1.94	96.8	2.00	0.897	
Total Xylenes*	<0.150	0.150	09/14/2015	ND	6.67	111	6.00	0.713	
Total BTEX	<0.300	0.300	09/14/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 85 6-137
Chloride, SM4500Cl-B
mg/L
Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	48.0	4.00	09/17/2015	ND	416	104	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: 09/11/2015
 Reported: 09/17/2015
 Project Name: HARRIER TANK BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 09/11/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Judy Garcia

Sample ID: S3-1' (H502404-07)

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	09/14/2015	ND	2.03	101	2.00	2.76		
Toluene*	<0.050	0.050	09/14/2015	ND	1.86	93.2	2.00	0.882		
Ethylbenzene*	<0.050	0.050	09/14/2015	ND	1.94	96.8	2.00	0.897		
Total Xylenes*	<0.150	0.150	09/14/2015	ND	6.67	111	6.00	0.713		
Total BTEX	<0.300	0.300	09/14/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 108 % 85.6-137

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	09/14/2015	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	09/11/2015	ND	185	92.4	200	1.46		
DRO >C10-C28	<10.0	10.0	09/11/2015	ND	191	95.3	200	4.09		

Surrogate: 1-Chlorooctane 75.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 78.4 % 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:	09/11/2015	Sampling Date:	09/11/2015
Reported:	09/17/2015	Sampling Type:	Soil
Project Name:	HARRIER TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: S3-2' (H502404-08)

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	09/14/2015	ND	2.03	101	2.00	2.76		
Toluene*	<0.050	0.050	09/14/2015	ND	1.86	93.2	2.00	0.882		
Ethylbenzene*	<0.050	0.050	09/14/2015	ND	1.94	96.8	2.00	0.897		
Total Xylenes*	<0.150	0.150	09/14/2015	ND	6.67	111	6.00	0.713		
Total BTEX	<0.300	0.300	09/14/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 85.6-137

Chloride, SM4500CI-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	09/14/2015	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	09/11/2015	ND	185	92.4	200	1.46		
DRO >C10-C28	<10.0	10.0	09/11/2015	ND	191	95.3	200	4.09		

Surrogate: 1-Chlorooctane 71.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 74.4 % 52.1-176

Sample ID: S3-3' (H502404-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	09/14/2015	ND	400	100	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:	09/11/2015	Sampling Date:	09/11/2015
Reported:	09/17/2015	Sampling Type:	Soil
Project Name:	HARRIER TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: S3-4' (H502404-10)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/14/2015	ND	400	100	400	3.92		

Sample ID: S4-1' (H502404-11)

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	09/14/2015	ND	2.03	101	2.00	2.76		
Toluene*	<0.050	0.050	09/14/2015	ND	1.86	93.2	2.00	0.882		
Ethylbenzene*	<0.050	0.050	09/14/2015	ND	1.94	96.8	2.00	0.897		
Total Xylenes*	<0.150	0.150	09/14/2015	ND	6.67	111	6.00	0.713		
Total BTEX	<0.300	0.300	09/14/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 107 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2120	16.0	09/14/2015	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	09/11/2015	ND	185	92.4	200	1.46		
DRO >C10-C28	122	10.0	09/11/2015	ND	191	95.3	200	4.09		

Surrogate: 1-Chlorooctane 87.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 92.2 % 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:	09/11/2015	Sampling Date:	09/11/2015
Reported:	09/17/2015	Sampling Type:	Soil
Project Name:	HARRIER TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: S4-2' (H502404-12)

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	09/14/2015	ND	2.03	101	2.00	2.76		
Toluene*	<0.050	0.050	09/14/2015	ND	1.86	93.2	2.00	0.882		
Ethylbenzene*	<0.050	0.050	09/14/2015	ND	1.94	96.8	2.00	0.897		
Total Xylenes*	<0.150	0.150	09/14/2015	ND	6.67	111	6.00	0.713		
Total BTEX	<0.300	0.300	09/14/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	09/14/2015	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	09/11/2015	ND	185	92.4	200	1.46		
DRO >C10-C28	<10.0	10.0	09/11/2015	ND	191	95.3	200	4.09		

Surrogate: 1-Chlorooctane 73.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 77.4 % 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:	09/11/2015	Sampling Date:	09/11/2015
Reported:	09/17/2015	Sampling Type:	Soil
Project Name:	HARRIER TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: S4-3' (H502404-13)

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	09/14/2015	ND	2.03	101	2.00	2.76		
Toluene*	<0.050	0.050	09/14/2015	ND	1.86	93.2	2.00	0.882		
Ethylbenzene*	<0.050	0.050	09/14/2015	ND	1.94	96.8	2.00	0.897		
Total Xylenes*	<0.150	0.150	09/14/2015	ND	6.67	111	6.00	0.713		
Total BTEX	<0.300	0.300	09/14/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 108 % 85.6-137

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	09/14/2015	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	09/11/2015	ND	185	92.4	200	1.46		
DRO >C10-C28	<10.0	10.0	09/11/2015	ND	191	95.3	200	4.09		

Surrogate: 1-Chlorooctane 75.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 82.9 % 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:	09/11/2015	Sampling Date:	09/11/2015
Reported:	09/17/2015	Sampling Type:	Soil
Project Name:	HARRIER TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	NOT GIVEN		

Sample ID: S4-4' (H502404-14)

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	09/14/2015	ND	2.03	101	2.00	2.76		
Toluene*	<0.050	0.050	09/14/2015	ND	1.86	93.2	2.00	0.882		
Ethylbenzene*	<0.050	0.050	09/14/2015	ND	1.94	96.8	2.00	0.897		
Total Xylenes*	<0.150	0.150	09/14/2015	ND	6.67	111	6.00	0.713		
Total BTEX	<0.300	0.300	09/14/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 85.6-137

Chloride, SM4500CI-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	09/14/2015	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	09/11/2015	ND	185	92.4	200	1.46		
DRO >C10-C28	<10.0	10.0	09/11/2015	ND	191	95.3	200	4.09		

Surrogate: 1-Chlorooctane 76.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 79.3 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

Cardinal Laboratories*=**Accredited Analyte**

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

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 #: _____ Project Owner: _____
 Project Name: *Hanner Tank Battery*
 Project Location: _____
 Sampler Name: Lupe Carrasco

P.O. #: _____
 Company: COG Operating LLC
 Attn: Robert McNeill
 Address: 600 W Illinois
 City: Midland
 State: TX Zip: 79701
 Phone #: (432) 221-0388
 Fax #: _____

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTEX	TPH	Chloride	Add'l Phone #:	Add'l Fax #:
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :							
<i>HS02404</i>	<i>51-1</i>									<i>9/11/15</i>						
	<i>51-2</i>															
	<i>51-3</i>															
	<i>51-4</i>															
	<i>52-1</i>															
	<i>52-2</i>															
	<i>53-1</i>															
	<i>53-2</i>															
	<i>53-3</i>															
	<i>53-4</i>															

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Relinquished By: _____ Date: *9/11/15*
 Time: *12:15*
 Received By: _____ Date: *9/11/15*
 Time: *12:15*

Phone Result: Yes No Add'l Phone #: _____
 Fax Result: Yes No Add'l Fax #: _____
 REMARKS: *gcarrasco@conoco.com*

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: _____
 Checked By: *Rudy Garcia*
 Date: *12/15*
 Time: *5:30*

Checked By: *Rudy Garcia*
 Date: *12/15*
 Time: *5:30*
 Remarks: *RUST!*

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

#54

10/2

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

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

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

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: COG Operating LLC	Contact: Robert McNeill
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No. 432-230-0077
Facility Name: Harrier 35 Federal Com #1H	Facility Type: Battery
Surface Owner: Federal	Mineral Owner:
API No. 30-025-40572	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	35	25S	32E	1980'	North	1500'	East	Lea

Latitude 32.0888481 Longitude -103.6419449

NATURE OF RELEASE

Type of Release: Oil & Produced Water	Volume of Release: 5 bbls Oil & 190 bbls	Volume Recovered: 4 bbls Oil & 180 bbls
Source of Release: Lightning Strike	Date and Hour of Occurrence: 8/18/2015 8:00 am	Date and Hour of Discovery: 8/18/2015 8:00 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Kellie Jones – NMOCD / Jim Amos – BLM	
By Whom? Amanda Trujillo	Date and Hour: Tue 8/18/2015 4:41 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

This release was caused by a lightning strike that caused the water tank to burn. Vacuum trucks were dispatched to recover the standing fluid.

Describe Area Affected and Cleanup Action Taken.*

This release was contained within a lined facility. Damaged equipment was removed and the facility cleaned. Concho had the spill site sampled and delineated for any possible contamination from the release. Since this release remained within our permitted area impacted material was removed and backfilled with like material.

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

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Amanda Trujillo	Approved by Environmental Specialist: 	
Title: Senior Environmental Coordinator	Approval Date: 09/23/2015	Expiration Date: ///
E-mail Address: atrujillo@concho.com	Conditions of Approval: ///	Attached <input type="checkbox"/> IRP 3880
Date: 9/18/2015	Phone: 575-748-6940	

* Attach Additional Sheets If Necessary

pJXK1526649951

nJXK1526649867