WORLD-WIDE ENVIRONMENTAL SPECIALISTS

BBC INTERNATIONAL INCORPORATED

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DELINEATION WORKPLAN

COG – GRAHAM NASH STATE COM #008H
(Leak Date: 12/18/16)

RP # 2RP-4043
API # 30-015-42203

This delineation workplan and remediation proposal addresses the release associated with RP # 2RP-4043.

The following information includes:

1. Scaled digital site map with spill area demarcated and leak point identified along with sample point locations and areas of remediation at appropriate depths.
2. GPS information for sample points and sample methodology
3. Depth to groundwater information (i.e., pdf of OSE search results and/or copy of Chevron groundwater trend map).
4. Laboratory analysis results summary table and original laboratory analysis reports
5. A copy of the initial C-141
6. Potentially other pertinent information as necessary for site specific purposes.

Based on the information included in this package and the NMOCD guidelines, the following remediation is proposed:

COG will excavate the spill area as depicted on the following site diagram. The entire leak area (red shade on diagram) will be excavated to a depth of 2.5 feet.

The entire site will then be backfilled with clean soil and revegetated (if warranted) to the standards of the appropriate regulatory agency or private surface owner.

All excavated materials will be disposed of at an NMOCD-approved disposal facility.


COG, Graham Nash State Com #008H
Leak date: 12/18/2016
Eddy County, NM
API#30-015-42203
2RP-4043
Legend
Leak Area, 2.5' Excavation across the entire site
Sample points
Graham Nash T-1
T-2
Google Earth
N
90 ft

COG, Graham Nash State Com #008H

Sample points, hand auger

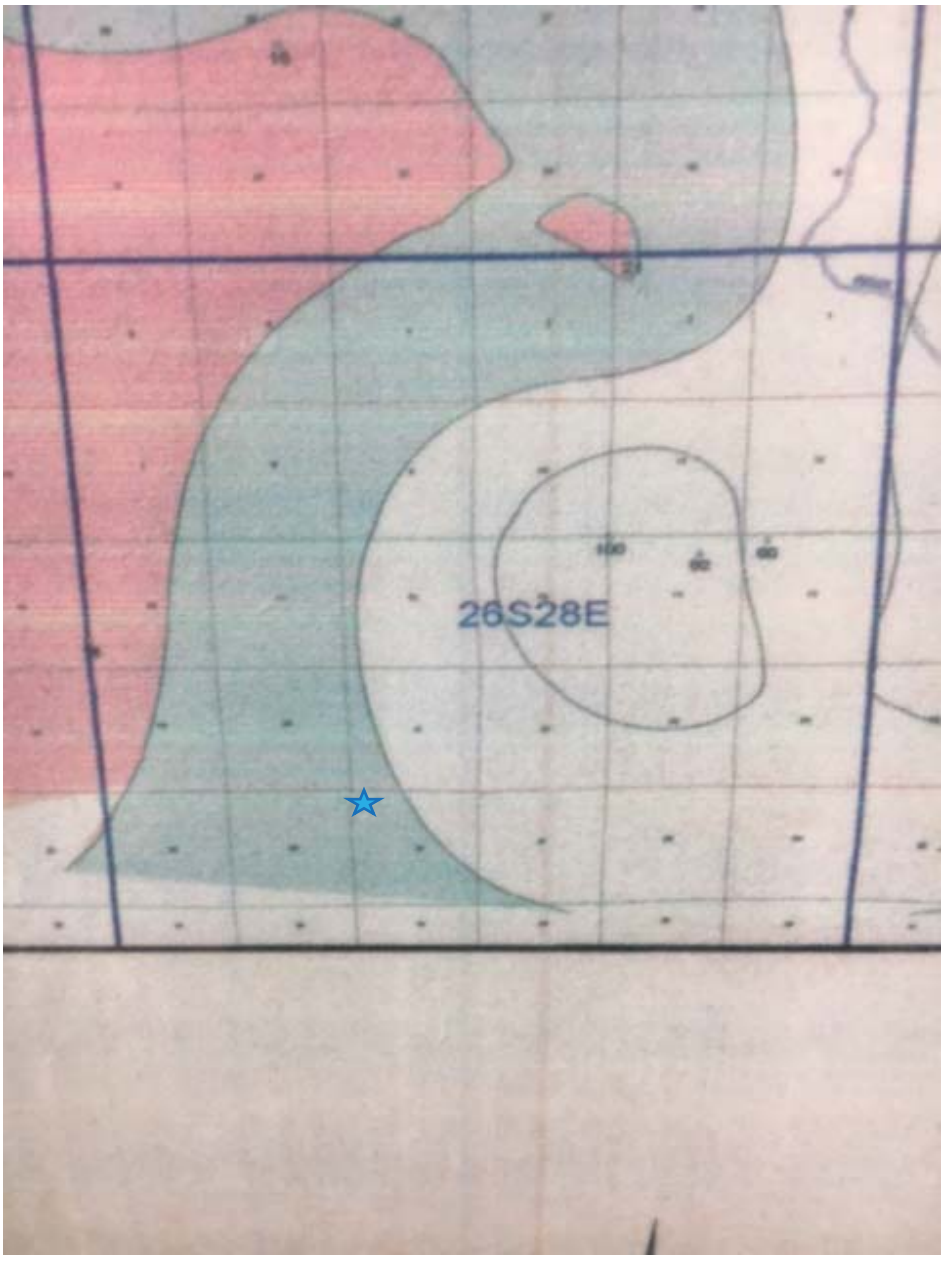
T1, N 32.02029 W-104.09864

T2, N 32.02024 W-104.09838

COG, Graham Nash State Com #008H

U/L D, Section 28, T26S, R28E

Groundwater: <50’



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

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 585157 **Northing (Y):** 3542855 **Radius:** 1700

Public Land Survey System (PLSS)

Q64: Q16: NW Q4: NW Sec: 28 Tws: 26S Rng: 28E

State Plane Coordinate System - NAD27

X: 0 ft Y: 0 ft Zone:

State Plane Coordinate System - NAD83

X: 0 ft Y: 0 ft Zone:

Degrees/Minutes/Seconds

Longitude (X): Degrees: 0 ° Minutes: 0 ' Seconds: 0 "

Latitude (Y): Degrees: 0 ° Minutes: 0 ' Seconds: 0 "

UTM - NAD27

Easting (X): 0 mtrs Northing (Y): 0 mtrs Zone:

SUBMIT

All Conversion Results are displayed as NAD 1983 UTM Zone 13

Easting (X): 585157.0 mtrs Northing (Y): 3542855.0 mtrs

~~ Please keep screen open to copy UTM values for Reports. ~~

Laboratory Analytical Results Summary
Graham Nash State Com #008H

		Sample	T1 @ 1'	T1 @ 2'	T1 @ 3'	T1 @ 4'	T1 @ 5'	T1 @ 6'	T1 @ 8'	T1 @ 10'	T1 @ 12'
Analyte	Method	Date	1/24/17	1/24/17	1/24/17	1/24/17	1/24/17	1/24/17	1/24/17	1/24/17	1/24/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		**560**	**912**	**400**	**320**	**304**	**224**	**128**	**64**	**304**
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a

		Sample	T2 @ 1'	T2 @ 2'	T2 @ 3'	T2 @ 4'	T2 @ 5'	T2 @ 6'	T2 @ 8'	T2 @ 9'
Analyte	Method	Date	1/24/17	1/24/17	1/24/17	1/24/17	1/24/17	1/24/17	1/24/17	1/24/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		**832**	**1550**	**64**	**64**	**128**	**48**	**64**	**224**
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	n/a	n/a	n/a

CARDINAL Laboratories

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

January 31, 2017

AARON LIEB

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: GRAHAM NASH STATE #8H

Enclosed are the results of analyses for samples received by the laboratory on 01/25/17 12:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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 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.

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

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

COG OPERATING
AARON LIEB
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:	01/25/2017	Sampling Date:	01/24/2017
Reported:	01/31/2017	Sampling Type:	Soil
Project Name:	GRAHAM NASH STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN		

Sample ID: T1 - 1' (H700186-01)

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	01/30/2017	ND	1.91	95.6	2.00	0.678	
Toluene*	<0.050	0.050	01/30/2017	ND	1.92	95.9	2.00	0.381	
Ethylbenzene*	<0.050	0.050	01/30/2017	ND	1.96	98.2	2.00	0.486	
Total Xylenes*	<0.150	0.150	01/30/2017	ND	5.55	92.6	6.00	0.146	
Total BTEX	<0.300	0.300	01/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *73.6-140*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**560**	16.0	01/28/2017	ND	432	108	400	3.77	

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	01/27/2017	ND	199	99.7	200	1.81	
DRO >C10-C28	<10.0	10.0	01/27/2017	ND	209	104	200	1.15	

Surrogate: 1-Chlorooctane *78.6 %* *35-147*

Surrogate: 1-Chlorooctadecane *92.4 %* *28-171*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

COG OPERATING
AARON LIEB
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:	01/25/2017	Sampling Date:	01/24/2017
Reported:	01/31/2017	Sampling Type:	Soil
Project Name:	GRAHAM NASH STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN		

Sample ID: T1 - 2' (H700186-02)

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	01/30/2017	ND	1.91	95.6	2.00	0.678	
Toluene*	<0.050	0.050	01/30/2017	ND	1.92	95.9	2.00	0.381	
Ethylbenzene*	<0.050	0.050	01/30/2017	ND	1.96	98.2	2.00	0.486	
Total Xylenes*	<0.150	0.150	01/30/2017	ND	5.55	92.6	6.00	0.146	
Total BTEX	<0.300	0.300	01/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *73.6-140*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**912**	16.0	01/28/2017	ND	432	108	400	3.77	

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	01/27/2017	ND	199	99.7	200	1.81	
DRO >C10-C28	<10.0	10.0	01/27/2017	ND	209	104	200	1.15	

Surrogate: 1-Chlorooctane *75.3 %* *35-147*

Surrogate: 1-Chlorooctadecane *91.5 %* *28-171*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

COG OPERATING
AARON LIEB
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:	01/25/2017	Sampling Date:	01/24/2017
Reported:	01/31/2017	Sampling Type:	Soil
Project Name:	GRAHAM NASH STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN		

Sample ID: T1 - 3' (H700186-03)

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	01/30/2017	ND	1.93	96.7	2.00	0.0680	
Toluene*	<0.050	0.050	01/30/2017	ND	1.95	97.5	2.00	0.0817	
Ethylbenzene*	<0.050	0.050	01/30/2017	ND	2.01	100	2.00	0.340	
Total Xylenes*	<0.150	0.150	01/30/2017	ND	5.70	95.1	6.00	0.184	
Total BTEX	<0.300	0.300	01/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *73.6-140*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**400**	16.0	01/28/2017	ND	432	108	400	3.77	

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	01/27/2017	ND	199	99.7	200	1.81	
DRO >C10-C28	<10.0	10.0	01/27/2017	ND	209	104	200	1.15	

Surrogate: 1-Chlorooctane *77.7 %* *35-147*

Surrogate: 1-Chlorooctadecane *92.1 %* *28-171*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

COG OPERATING
AARON LIEB
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:	01/25/2017	Sampling Date:	01/24/2017
Reported:	01/31/2017	Sampling Type:	Soil
Project Name:	GRAHAM NASH STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN		

Sample ID: T1 - 4' (H700186-04)

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	01/30/2017	ND	1.93	96.7	2.00	0.0680	
Toluene*	<0.050	0.050	01/30/2017	ND	1.95	97.5	2.00	0.0817	
Ethylbenzene*	<0.050	0.050	01/30/2017	ND	2.01	100	2.00	0.340	
Total Xylenes*	<0.150	0.150	01/30/2017	ND	5.70	95.1	6.00	0.184	
Total BTEX	<0.300	0.300	01/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *73.6-140*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**320**	16.0	01/28/2017	ND	448	112	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	01/27/2017	ND	199	99.7	200	1.81	
DRO >C10-C28	<10.0	10.0	01/27/2017	ND	209	104	200	1.15	

Surrogate: 1-Chlorooctane *72.4 %* *35-147*

Surrogate: 1-Chlorooctadecane *83.1 %* *28-171*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

COG OPERATING
AARON LIEB
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:	01/25/2017	Sampling Date:	01/24/2017
Reported:	01/31/2017	Sampling Type:	Soil
Project Name:	GRAHAM NASH STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN		

Sample ID: T1 - 5' (H700186-05)

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	01/30/2017	ND	1.93	96.7	2.00	0.0680	
Toluene*	<0.050	0.050	01/30/2017	ND	1.95	97.5	2.00	0.0817	
Ethylbenzene*	<0.050	0.050	01/30/2017	ND	2.01	100	2.00	0.340	
Total Xylenes*	<0.150	0.150	01/30/2017	ND	5.70	95.1	6.00	0.184	
Total BTEX	<0.300	0.300	01/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *73.6-140*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**304**	16.0	01/28/2017	ND	448	112	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	01/27/2017	ND	199	99.7	200	1.81	
DRO >C10-C28	<10.0	10.0	01/27/2017	ND	209	104	200	1.15	

Surrogate: 1-Chlorooctane *87.3 %* *35-147*

Surrogate: 1-Chlorooctadecane *83.7 %* *28-171*

Sample ID: T1 - 6' (H700186-06)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**224**	16.0	01/28/2017	ND	448	112	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

COG OPERATING
AARON LIEB
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:	01/25/2017	Sampling Date:	01/24/2017
Reported:	01/31/2017	Sampling Type:	Soil
Project Name:	GRAHAM NASH STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN		

Sample ID: T1 - 8' (H700186-07)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**128**	16.0	01/28/2017	ND	448	112	400	0.00	

Sample ID: T1 - 10' (H700186-08)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	01/28/2017	ND	448	112	400	0.00	

Sample ID: T1 - 12' (H700186-09)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**304**	16.0	01/28/2017	ND	448	112	400	0.00	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

COG OPERATING
AARON LIEB
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:	01/25/2017	Sampling Date:	01/24/2017
Reported:	01/31/2017	Sampling Type:	Soil
Project Name:	GRAHAM NASH STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN		

Sample ID: T2 - 1' (H700186-10)

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	01/30/2017	ND	1.93	96.7	2.00	0.0680	
Toluene*	<0.050	0.050	01/30/2017	ND	1.95	97.5	2.00	0.0817	
Ethylbenzene*	<0.050	0.050	01/30/2017	ND	2.01	100	2.00	0.340	
Total Xylenes*	<0.150	0.150	01/30/2017	ND	5.70	95.1	6.00	0.184	
Total BTEX	<0.300	0.300	01/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID *103 %* *73.6-140*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**832**	16.0	01/28/2017	ND	448	112	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	01/27/2017	ND	199	99.7	200	1.81	
DRO >C10-C28	<10.0	10.0	01/27/2017	ND	209	104	200	1.15	

Surrogate: 1-Chlorooctane *86.3 %* *35-147*

Surrogate: 1-Chlorooctadecane *94.4 %* *28-171*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

COG OPERATING
AARON LIEB
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:	01/25/2017	Sampling Date:	01/24/2017
Reported:	01/31/2017	Sampling Type:	Soil
Project Name:	GRAHAM NASH STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN		

Sample ID: T2 - 2' (H700186-11)

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	01/30/2017	ND	1.93	96.7	2.00	0.0680	
Toluene*	<0.050	0.050	01/30/2017	ND	1.95	97.5	2.00	0.0817	
Ethylbenzene*	<0.050	0.050	01/30/2017	ND	2.01	100	2.00	0.340	
Total Xylenes*	<0.150	0.150	01/30/2017	ND	5.70	95.1	6.00	0.184	
Total BTEX	<0.300	0.300	01/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *73.6-140*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1550**	16.0	01/28/2017	ND	448	112	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	01/27/2017	ND	199	99.7	200	1.81	
DRO >C10-C28	<10.0	10.0	01/27/2017	ND	209	104	200	1.15	

Surrogate: 1-Chlorooctane *72.1 %* *35-147*

Surrogate: 1-Chlorooctadecane *84.3 %* *28-171*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

COG OPERATING
AARON LIEB
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:	01/25/2017	Sampling Date:	01/24/2017
Reported:	01/31/2017	Sampling Type:	Soil
Project Name:	GRAHAM NASH STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN		

Sample ID: T2 - 3' (H700186-12)

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	01/30/2017	ND	1.93	96.7	2.00	0.0680	
Toluene*	<0.050	0.050	01/30/2017	ND	1.95	97.5	2.00	0.0817	
Ethylbenzene*	<0.050	0.050	01/30/2017	ND	2.01	100	2.00	0.340	
Total Xylenes*	<0.150	0.150	01/30/2017	ND	5.70	95.1	6.00	0.184	
Total BTEX	<0.300	0.300	01/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID *102 %* *73.6-140*

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	01/28/2017	ND	448	112	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	01/27/2017	ND	199	99.7	200	1.81	
DRO >C10-C28	<10.0	10.0	01/27/2017	ND	209	104	200	1.15	

Surrogate: 1-Chlorooctane *63.5 %* *35-147*

Surrogate: 1-Chlorooctadecane *75.4 %* *28-171*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

COG OPERATING
AARON LIEB
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:	01/25/2017	Sampling Date:	01/24/2017
Reported:	01/31/2017	Sampling Type:	Soil
Project Name:	GRAHAM NASH STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN		

Sample ID: T2 - 4' (H700186-13)

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	01/30/2017	ND	1.93	96.7	2.00	0.0680	
Toluene*	<0.050	0.050	01/30/2017	ND	1.95	97.5	2.00	0.0817	
Ethylbenzene*	<0.050	0.050	01/30/2017	ND	2.01	100	2.00	0.340	
Total Xylenes*	<0.150	0.150	01/30/2017	ND	5.70	95.1	6.00	0.184	
Total BTEX	<0.300	0.300	01/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *73.6-140*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	01/28/2017	ND	448	112	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	01/27/2017	ND	199	99.7	200	1.81	
DRO >C10-C28	<10.0	10.0	01/27/2017	ND	209	104	200	1.15	

Surrogate: 1-Chlorooctane *89.3 %* *35-147*

Surrogate: 1-Chlorooctadecane *81.7 %* *28-171*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

COG OPERATING
AARON LIEB
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:	01/25/2017	Sampling Date:	01/24/2017
Reported:	01/31/2017	Sampling Type:	Soil
Project Name:	GRAHAM NASH STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN		

Sample ID: T2 - 5' (H700186-14)

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	01/30/2017	ND	1.93	96.7	2.00	0.0680	
Toluene*	<0.050	0.050	01/30/2017	ND	1.95	97.5	2.00	0.0817	
Ethylbenzene*	<0.050	0.050	01/30/2017	ND	2.01	100	2.00	0.340	
Total Xylenes*	<0.150	0.150	01/30/2017	ND	5.70	95.1	6.00	0.184	
Total BTEX	<0.300	0.300	01/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID *104 %* *73.6-140*

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**128**	16.0	01/28/2017	ND	448	112	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	01/27/2017	ND	199	99.7	200	1.81	
DRO >C10-C28	<10.0	10.0	01/27/2017	ND	209	104	200	1.15	

Surrogate: 1-Chlorooctane *81.3 %* *35-147*

Surrogate: 1-Chlorooctadecane *94.1 %* *28-171*

Sample ID: T2 - 6' (H700186-15)

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

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	01/28/2017	ND	448	112	400	0.00	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

COG OPERATING
AARON LIEB
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:	01/25/2017	Sampling Date:	01/24/2017
Reported:	01/31/2017	Sampling Type:	Soil
Project Name:	GRAHAM NASH STATE #8H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN		

Sample ID: T2 - 8' (H700186-16)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	01/28/2017	ND	448	112	400	0.00	

Sample ID: T2 - 9' (H700186-17)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**224**	16.0	01/28/2017	ND	448	112	400	0.00	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

Celey D. Keene, Lab Director/Quality Manager

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	COG Operating LLC
Project Manager:	Aaron Lieb
Address:	2407 Pecos Avenue
City:	Artesia
State:	NM
Zip	88210
Phone #:	575-748-1553
Fax #:	
Project #:	
Project Owner:	
Project Name:	Graham Nash State #8H
Project Location:	
Sampler Name:	Aaron Lieb

BILL TO

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

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: BTEX	TPH	Chloride
H700186-																	
01	T1-1'					x					x		1/24/17	11:00AM	X	X	X
02	T1-2'					x					x		1/24/17	11:00AM	X	X	X
03	T1-3'					x					x		1/24/17	11:00AM	X	X	X
04	T1-4'					x					x		1/24/17	11:00AM	X	X	X
05	T1-5'					x					x		1/24/17	11:00AM	X	X	X
06	T1-6'					x					x		1/24/17	11:00AM	X	X	X
07	T1-8'					x					x		1/24/17	11:00AM			X
08	T1-10'					x					x		1/24/17	11:00AM			X
09	T1-12'					x					x		1/24/17	11:00AM			X
																	X

Relinquished By:	Date: 1-25-17	Received By:	
Relinquished By:	Time: 12:15	Received By: Angela Cabrera	
	Date:		
	Time:		

Delivered By: (Circle One)
Sampler - UPS - Bus - Other: 4.6°C

Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No
CHECKED BY: (Initials) ash #75

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS:
dneel2@concho.com
alieb@concho.com
rgrubbs@concho.com
rhaskell@concho.com

Note: Run Deeper Horizons for BTEX + TPH if Benzene > 10 ppm, BTEX > 50 ppm + TPH > 5000 ppm.

PORM-006 R 2.0

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	COG Operating LLC
Project Manager:	Aaron Lieb
Address:	2407 Pecos Avenue
City:	Artesia
State:	NM
Zip	88210
Phone #:	575-748-1553
Fax #:	
Project #:	
Project Owner:	
Project Name:	Graham Nash State #8H
Project Location:	
Sampler Name:	Aaron Lieb

BILL TO

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

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: BTEX	TPH	Chloride
H700187-10	T2-1'					x					x		1/24/17	11:30AM	X	X	X
11	T2-2'					x					x		1/24/17	11:30AM	X	X	X
12	T2-3'					x					x		1/24/17	11:30AM	X	X	X
13	T2-4'					x					x		1/24/17	11:30AM	X	X	X
14	T2-5'					x					x		1/24/17	11:30AM	X	X	X
15	T2-6'					x					x		1/24/17	11:30AM	X	X	X
16	T2-8'					x					x		1/24/17	11:30AM			X
17	T2-9'					x					x		1/24/17	11:30AM			X
																	X

Relinquished By:	Date: 1-25-17	Received By:	
	Time: 12:15		
Relinquished By:	Date:	Received By:	
	Time:		

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Sample Condition		CHECKED BY: (Initials)
Cool	Intact	
☐ Yes ☐ No	☐ Yes ☐ No	

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

REMARKS:
dneel2@concho.com
alieb@concho.com
rgrubbs@concho.com
rhaskell@concho.com

Note: Run Deeper Horizons for BTEX & TPH if Benzene > 10 ppm, BTEX > 50 ppm & TPH > 5000 ppm

FORM-006 R 2.0

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

NM OIL CONSERVATION
ARTESIA DISTRICT
DEC 19 2016
RECEIVED

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

nAB1635756030

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company:	COG Operating LLC 229137	Contact:	Robert McNeill
Address:	600 West Illinois Avenue, Midland TX 79701	Telephone No.	432-683-7443
Facility Name:	GRAHAM NASH STATE COM #008H	Facility Type:	Tank Battery

Surface Owner: State	Mineral Owner:	API No. 30-015-42203

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	28	26S	28E	190'	North	760'	West	Eddy

Latitude 32.019989 **Longitude** 104.0983429

NATURE OF RELEASE

Type of Release: Oil & Produced Water	Volume of Release: 40bbls of Oil & 30bbls of Produced Water	Volume Recovered: 39bbls of Oil & 27bbls of Produced Water
Source of Release: Ball Valve	Date and Hour of Occurrence: 12-18-2016 07:00 am	Date and Hour of Discovery: 12-18-2016 07:00 am
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Crystal + Mike + Heather ~~Kristen Lynch~~ – NMOCD / Amber Groves - SLO	
By Whom? Robert Grubbs Jr.	Date and Hour: Mon 12/19/2016 2:24 PM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

This release was caused by a corroded ball valve due to age. The ball valve has been replaced with a new one.

Describe Area Affected and Cleanup Action Taken.*

This release was mostly contained within the lined facility a small area of 24 X30 on the pad. 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:	OIL CONSERVATION DIVISION	
Printed Name: Robert Grubbs Jr.	Approved by Environmental Specialist:	
Title: Senior HSE Coordinator	Approval Date: 12/23/16	Expiration Date: N/A
E-mail Address: rgrubbs@concho.com	Conditions of Approval:	Attached ☒
Date: Phone: 432-683-7443		

* Attach Additional Sheets If Necessary

2RP-4043

Operator/Responsible Party,

The OCD has received the form C-141 you provided on **12/22/16** regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 2RP-4043 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

> *The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC.* [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District II office in Artesia on or before 2/1/17. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C_6 thru C_{36}), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C_6 thru C_{36}), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

- Nominal detection limits for field and laboratory analyses must be provided.

- Composite sampling is not generally allowed.

- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold
OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

Patterson, Heather, EMNRD

From: Robert Grubbs <RGrubbs@concho.com>
Sent: Monday, December 19, 2016 1:32 PM
To: Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD; Weaver, Crystal, EMNRD; 'agroves@slo.state.nm.us'
Subject: (C-141) Initial GRAHAM NASH STATE COM #008H (TB) 30-015-42203
Attachments: Graham Nash State Com #008H (TB) Initial.pdf

MR. BRATCHER / MS. GROVES,

ATTACHED IS A C-141 FOR YOUR CONSIDERATION. IF YOU HAVE ANY ADDITIONAL QUESTIONS PLEASE FEEL FREE TO CONTACT ME.

THANK YOU,

ROBERT GRUBBS JR.
SR. HSE COORDINATOR
432.683.7443 (MAIN)
432.818.2369 (DIRECT)
432.661.6601 (CELL)
432.221.0892 (FAX)
RGRUBBS@CONCHO.COM
MAILING ADDRESS:
ONE CONCHO CENTER
600 W. ILLINOIS AVENUE
MIDLAND, TEXAS 79701

Patterson, Heather, EMNRD

From: Robert Grubbs <RGrubbs@concho.com>
Sent: Monday, December 19, 2016 1:24 PM
To: Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD; Weaver, Crystal, EMNRD; 'agroves@slo.state.nm.us'
Subject: (Notification) GRAHAM NASH STATE COM #008H (TB) 30-015-42203

MR. BRATCHER / MS. GROVES,

COG OPERATING LLC IS REPORTING A RELEASE ON THE GRAHAM NASH STATE COM #008H (30-015-42203)
UNIT D SECTION 28 TOWNSHIP 26S RANGE 28E
THE RELEASE OCCURRED AT APPROXIMATELY 07:00 AM ON 12-18-2016
ESTIMATED RELEASED: APPROX. 40BBLS OIL & 30BBLS OF PRODUCED WATER
ESTIMATED RECOVERED: APPROX. 39BBLS OF OIL & 27BBLS OF PRODUCED WATER

THE RELEASE WAS CAUSED BY A CORRODED BALL VALVE DUE TO AGE. THIS RELEASE WAS MOSTLY CONTAINED WITHIN THE LINED FACILITY A SMALL AREA OF 24 X30 ON THE PAD. THIS AREA IS BEING EVALUATED AND A C-141 WILL BE SUBMITTED. IF YOU HAVE ANY ADDITIONAL QUESTIONS

THANK YOU,

ROBERT GRUBBS JR.
SR. HSE COORDINATOR
432.683.7443 (MAIN)
432.818.2369 (DIRECT)
432.661.6601 (CELL)
432.221.0892 (FAX)
RGRUBBS@CONCHO.COM
MAILING ADDRESS:
ONE CONCHO CENTER
600 W. ILLINOIS AVENUE
MIDLAND, TEXAS 79701

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Weaver, Crystal, EMNRD

From: Robert Grubbs <RGrubbs@concho.com>
Sent: Monday, December 19, 2016 1:24 PM
To: Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD; Weaver, Crystal, EMNRD; 'agroves@slo.state.nm.us'
Subject: (Notification) GRAHAM NASH STATE COM #008H (TB) 30-015-42203

MR. BRATCHER / MS. GROVES,

COG OPERATING LLC IS REPORTING A RELEASE ON THE GRAHAM NASH STATE COM #008H (30-015-42203)
UNIT D SECTION 28 TOWNSHIP 26S RANGE 28E
THE RELEASE OCCURRED AT APPROXIMATELY 07:00 AM ON 12-18-2016
ESTIMATED RELEASED: APPROX. 40BBLS OIL & 30BBLS OF PRODUCED WATER
ESTIMATED RECOVERED: APPROX. 39BBLS OF OIL & 27BBLS OF PRODUCED WATER

THE RELEASE WAS CAUSED BY A CORRODED BALL VALVE DUE TO AGE. THIS RELEASE WAS MOSTLY CONTAINED WITHIN THE LINED FACILITY A SMALL AREA OF 24 X30 ON THE PAD. THIS AREA IS BEING EVALUATED AND A C-141 WILL BE SUBMITTED. IF YOU HAVE ANY ADDITIONAL QUESTIONS

THANK YOU,

ROBERT GRUBBS JR.
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