



DELINEATION WORKPLAN

COG – SRO STATE COM #002H (Leak Date: 7/15/18)

RP # 2RP-4862

This delineation workplan and remediation proposal addresses the release associated with RP # 2RP-4862.

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 battery was destroyed in the fire and was dismantled so the delineation activities could be conducted. The leak area near SP1, SP5, and SP6 (BLUE shade on diagram) will be excavated to a depth of 6 inches. The leak area near SP2 and SP3 (PURPLE shade on diagram) will be excavated to a depth of 2 feet. The leak area near SP4 (ORANGE shade on diagram) will be excavated to a depth of 1 foot. The leak area near SP7 (PINK 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.

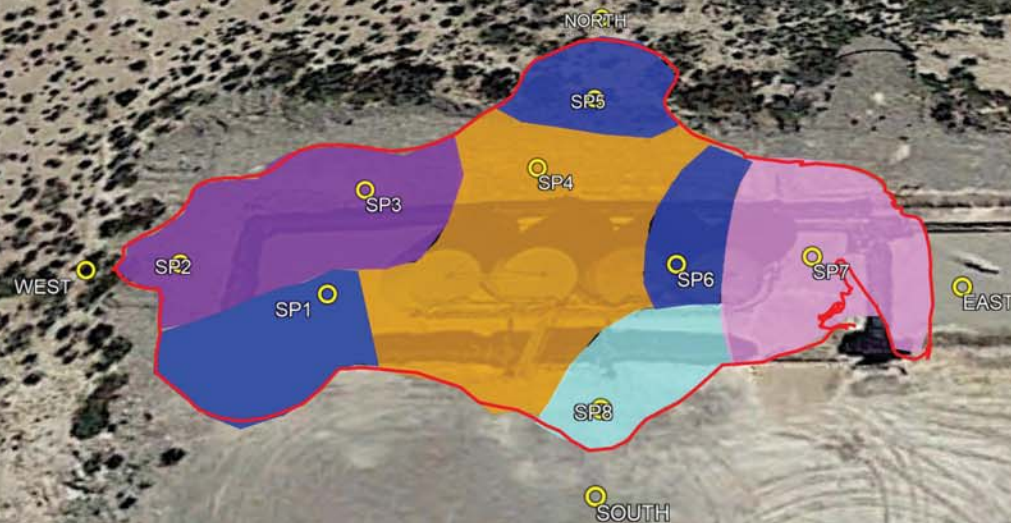
All excavated materials will be disposed of at an NMOCD-approved disposal facility.

COG, SRO State Com #002H

Leak date: 07/15/2018
Eddy County, NM
API# 30-015-37141
2RP-4862

Legend

- 1 ft Excavation
- 1.5 ft Excavation
- 2 ft Excavation
- 2.5 ft Excavation
- Leak area
- Sample points
- 6 in Excavation





New Mexico State Land Office

Revegetation and Noxious Weed Management Plan

COG – SRO State Com #002H

Revegetation Plan

Disturbed areas associated with the remediation efforts will be reseeded. If after one growing season, the vegetation has not taken hold, seeding may need to be repeated until revegetation is successful, as determined by the State Land Office. The seed will be spread by either using a hand-held broadcaster or tractor-mounted broadcaster and the area will be raked or dragged to cover the seed. If the seed will be broadcast, the pounds per acre will be double over the amount used by drill planting.

The seed mixture will be the appropriate mixture for the specific site and planted in the required amounts of pounds pure live seed (PLS) per acre. Commercially sold seed will be either certified or registered and will not contain primary or secondary noxious weeds.

Grasses:

Sideoats grama	Vaughn, El Reno	4.0	F
Blue grama	Lovington, Hachita	3.0	D
Little bluestem	Pastura, Cimmaron	1.5	F
Green sprangletop	VNS, Southern	1.0	D
Plains bristlegrass	VNS, Southern	1.0	D

Forbs:

Firewheel (<i>Gaillardia</i>)	VNS, Southern	1.0	D
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Shrubs:

Fourwing saltbush	Marana, Santa Rita	1.0	D
Common winterfat	VNS, Southern	0.5	F

Total PLS/acre 13.0

Noxious Weed Management Plan

The site will be visited to assess the establishment of vegetative growth. Personnel performing the site visit will also look for the presence of noxious weeds at the site as indicated on the New Mexico Noxious Weeds List specified on the United States Department of Agriculture website. If a noxious weed is observed at the site, the NMSLO will be contacted to determine the most effective manner to eradicate it.

COG, SRO State Com #002H

Sample points

SP1, N 32.08039 W-104.10226

SP2, N 32.08041 W-104.10236

SP3, N 32.08046 W-104.10224

SP4, N 32.08048 W-104.10212

SP5, N 32.08054 W-104.10209

SP6, N 32.08040 W-104.10203

SP7, N 32.08041 W-104.10194

SP8, N 32.08031 W-104.10207

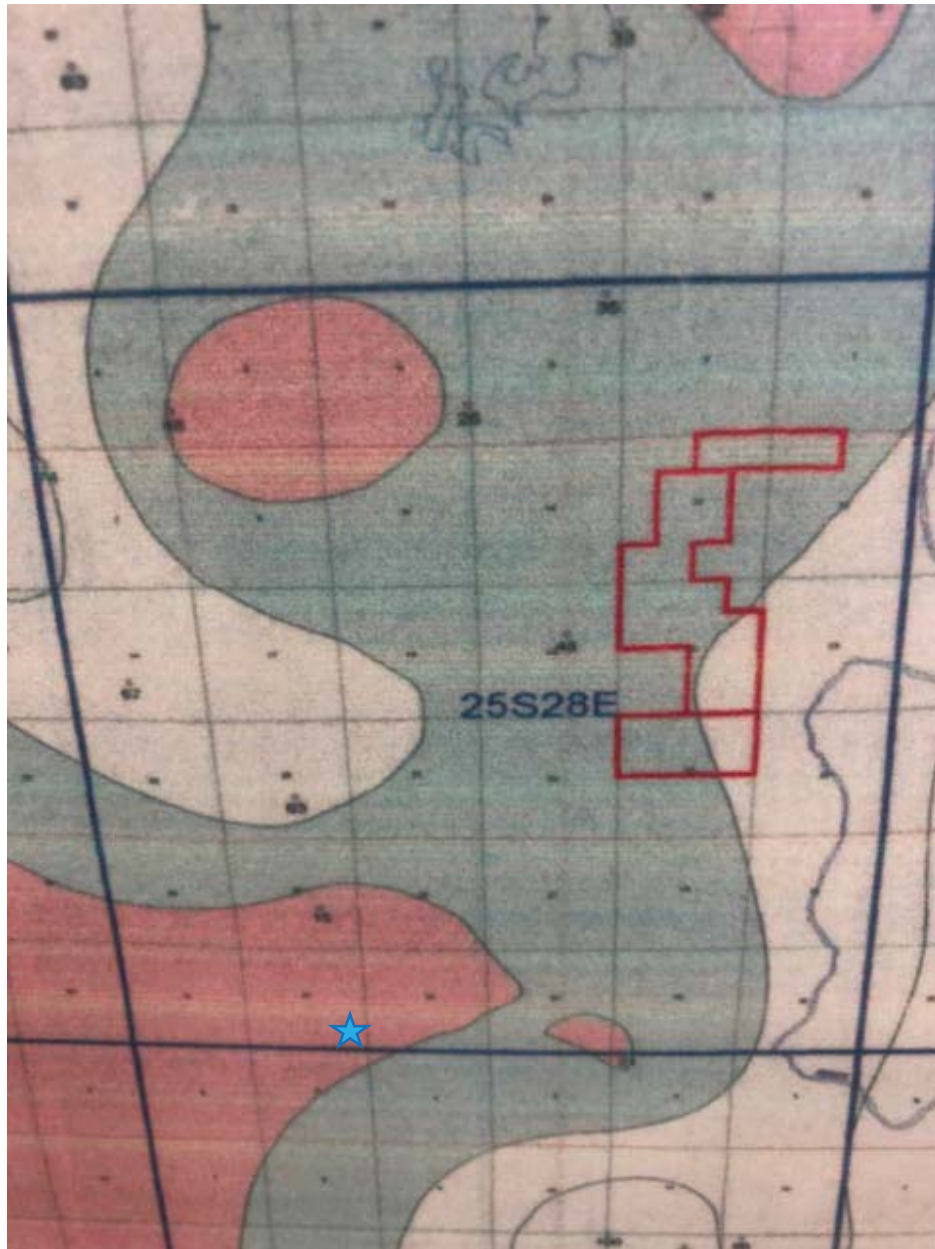
NORTH, N 32.08061 W-104.10209

SOUTH, N 32.08025 W-104.10207

EAST, N 32.08039 W-104.10184

WEST, N 32.08041 W-104.10242

COG, SRO State Com #002H
U/L P, Section 32, T25S, R28E
Groundwater: <50'





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 02478		CUB	ED	2	1	05	26S	28E		583848	3549325*	906	100		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 584657

Northing (Y): 3549735

Radius: 1700

*UTM location was derived from PLSS - see Help

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

Public Land Survey System (PLSS)

☒ Q64: Q16: Q4: Sec: Tws: Rng:

State Plane Coordinate System - NAD27

☐ X: ft Y: ft Zone:

State Plane Coordinate System - NAD83

☐ X: ft Y: ft Zone:

Degrees/Minutes/Seconds

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

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

UTM - NAD27

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

SUBMIT**All Conversion Results are displayed as NAD 1983 UTM Zone 13**Easting (X): mtrsNorthing (Y): mtrs**~~ Please keep screen open to copy UTM values for Reports. ~~**

Laboratory Analytical Results Summary
SRO State Com #002H

		Sample ID	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'
Analyte	Method	Date	8/15/18	8/15/18	8/15/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		n/a	<0.050	<0.050
Toluene	BTEX 8021B		n/a	<0.050	<0.050
Ethylbenzene	BTEX 8021B		n/a	<0.050	<0.050
Total Xylenes	BTEX 8021B		n/a	<0.150	<0.150
Total BTEX	BTEX 8021B		n/a	<0.300	<0.300
Chloride	SM4500Cl-B		4040	80	48
GRO	TPH 8015M		n/a	10.2	<10.0
DRO	TPH 8015M		n/a	2220	56.4
EXT DRO	TPH 8015M		n/a	487	27.1

		Sample ID	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	8/15/18	8/15/18	8/15/18	8/15/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		n/a	<0.050	<0.050	n/a
Toluene	BTEX 8021B		n/a	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		n/a	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		n/a	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		n/a	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		7120	5040	608	80
GRO	TPH 8015M		n/a	<10.0	<10.0	n/a
DRO	TPH 8015M		n/a	<10.0	<10.0	n/a
EXT DRO	TPH 8015M		n/a	<10.0	<10.0	n/a

		Sample ID	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	8/15/18	8/15/18	8/15/18	8/15/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		n/a	<0.050	<0.050	n/a
Toluene	BTEX 8021B		n/a	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		n/a	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		n/a	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		n/a	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		3800	5200	432	48
GRO	TPH 8015M		n/a	<10.0	<10.0	n/a
DRO	TPH 8015M		n/a	90.5	<10.0	n/a
EXT DRO	TPH 8015M		n/a	16.2	<10.0	n/a

		Sample ID	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 2'
Analyte	Method	Date	8/15/18	8/15/18	8/15/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		n/a	<0.050	<0.050
Toluene	BTEX 8021B		n/a	<0.050	<0.050
Ethylbenzene	BTEX 8021B		n/a	<0.050	<0.050
Total Xylenes	BTEX 8021B		n/a	<0.150	<0.150
Total BTEX	BTEX 8021B		n/a	<0.300	<0.300
Chloride	SM4500Cl-B		6960	496	32
GRO	TPH 8015M		n/a	<10.0	<10.0
DRO	TPH 8015M		n/a	12.3	<10.0
EXT DRO	TPH 8015M		n/a	<10.0	<10.0

		Sample ID	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 2'
Analyte	Method	Date	8/15/18	8/15/18	8/15/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		n/a	<0.050	<0.050
Toluene	BTEX 8021B		n/a	<0.050	<0.050
Ethylbenzene	BTEX 8021B		n/a	<0.050	<0.050
Total Xylenes	BTEX 8021B		n/a	<0.150	<0.150
Total BTEX	BTEX 8021B		n/a	<0.300	<0.300
Chloride	SM4500Cl-B		5200	176	48
GRO	TPH 8015M		n/a	<10.0	<10.0
DRO	TPH 8015M		n/a	<10.0	<10.0
EXT DRO	TPH 8015M		n/a	<10.0	<10.0

		Sample ID	SP6 @ SURFACE	SP6 @ 1'
Analyte	Method	Date	8/15/18	8/16/18
			mg/kg	mg/kg
Benzene	BTEX 8021B		n/a	<0.050
Toluene	BTEX 8021B		n/a	<0.050
Ethylbenzene	BTEX 8021B		n/a	<0.050
Total Xylenes	BTEX 8021B		n/a	<0.150
Total BTEX	BTEX 8021B		n/a	<0.300
Chloride	SM4500Cl-B		208	176
GRO	TPH 8015M		n/a	<10.0
DRO	TPH 8015M		n/a	<10.0
EXT DRO	TPH 8015M		n/a	<10.0

		Sample ID	SP7 @ SURFACE	SP7 @ 1'	SP7 @ 2'	SP7 @ 3'	SP7 @ 4'
Analyte	Method	Date	8/16/18	8/16/18	8/16/18	8/16/18	8/16/18
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		n/a	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		n/a	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		n/a	<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		2960	4000	3040	336	464
GRO	TPH 8015M		n/a	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		n/a	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		n/a	<10.0	n/a	n/a	n/a

		Sample ID	SP8 @ SURFACE	SP8 @ 1'	SP8 @ 2'
Analyte	Method	Date	8/16/18	8/16/18	8/16/18
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		n/a	<0.050	n/a
Toluene	BTEX 8021B		n/a	<0.050	n/a
Ethylbenzene	BTEX 8021B		n/a	<0.050	n/a
Total Xylenes	BTEX 8021B		n/a	<0.150	n/a
Total BTEX	BTEX 8021B		n/a	<0.300	n/a
Chloride	SM4500Cl-B		1300	1400	80
GRO	TPH 8015M		n/a	<10.0	n/a
DRO	TPH 8015M		n/a	<10.0	n/a
EXT DRO	TPH 8015M		n/a	<10.0	n/a

Laboratory Analytical Results Summary
SRO State Com #002H

		Sample ID	NORTH @ SURFACE	EAST @ SURFACE	WEST @ SURFACE	SOUTH @ SURFACE
Analyte	Method	Date	8/16/18	8/16/18	8/16/18	8/16/18
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		208	240	224	240
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

August 24, 2018

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SRO STATE COM #2H

Enclosed are the results of analyses for samples received by the laboratory on 08/17/18 15:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received: 08/17/2018
Reported: 08/24/2018
Project Name: SRO STATE COM #2H
Project Number: 07/15/18
Project Location: COG - MALAGA

Sampling Date: 08/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ SURFACE (H802315-01)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4040	16.0	08/21/2018	ND	416	104	400	3.77	

Sample ID: SP 1 @ 1 (H802315-02)

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	08/21/2018	ND	1.93	96.6	2.00	1.14	
Toluene*	<0.050	0.050	08/21/2018	ND	1.84	91.9	2.00	1.79	
Ethylbenzene*	<0.050	0.050	08/21/2018	ND	1.87	93.3	2.00	1.13	
Total Xylenes*	<0.150	0.150	08/21/2018	ND	5.60	93.3	6.00	1.11	
Total BTX	<0.300	0.300	08/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.2 % 69.8-142

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/21/2018	ND	400	100	400	7.69	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	10.2	10.0	08/20/2018	ND	196	98.0	200	0.403	
DRO >C10-C28*	2220	10.0	08/20/2018	ND	200	100	200	1.84	QM-07
EXT DRO >C28-C36	487	10.0	08/20/2018	ND					

Surrogate: 1-Chlorooctane 71.7 % 41-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received: 08/17/2018
Reported: 08/24/2018
Project Name: SRO STATE COM #2H
Project Number: 07/15/18
Project Location: COG - MALAGA

Sampling Date: 08/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 1 (H802315-02)

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Surrogate: 1-Chlorooctadecane	131 %	37.6-147								

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Received: 08/17/2018
Reported: 08/24/2018
Project Name: SRO STATE COM #2H
Project Number: 07/15/18
Project Location: COG - MALAGA

Sampling Date: 08/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 2 (H802315-03)

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	08/21/2018	ND	1.93	96.6	2.00	1.14	
Toluene*	<0.050	0.050	08/21/2018	ND	1.84	91.9	2.00	1.79	
Ethylbenzene*	<0.050	0.050	08/21/2018	ND	1.87	93.3	2.00	1.13	
Total Xylenes*	<0.150	0.150	08/21/2018	ND	5.60	93.3	6.00	1.11	
Total BTX	<0.300	0.300	08/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.4 % 69.8-142

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	08/21/2018	ND	400	100	400	7.69	

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	08/20/2018	ND	196	98.0	200	0.403	
DRO >C10-C28*	56.4	10.0	08/20/2018	ND	200	100	200	1.84	
EXT DRO >C28-C36	27.1	10.0	08/20/2018	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 96.8 % 37.6-147

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*=Accredited Analyte

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Project Name: SRO STATE COM #2H
Project Number: 07/15/18
Project Location: COG - MALAGA

Sampling Date: 08/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ SURFACE (H802315-04)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7120	16.0	08/21/2018	ND	400	100	400	7.69	

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*=Accredited Analyte

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Reported: 08/24/2018
Project Name: SRO STATE COM #2H
Project Number: 07/15/18
Project Location: COG - MALAGA

Sampling Date: 08/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 1 (H802315-05)

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	08/21/2018	ND	1.93	96.6	2.00	1.14	
Toluene*	<0.050	0.050	08/21/2018	ND	1.84	91.9	2.00	1.79	
Ethylbenzene*	<0.050	0.050	08/21/2018	ND	1.87	93.3	2.00	1.13	
Total Xylenes*	<0.150	0.150	08/21/2018	ND	5.60	93.3	6.00	1.11	
Total BTX	<0.300	0.300	08/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5040	16.0	08/21/2018	ND	400	100	400	7.69	

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	08/20/2018	ND	196	98.0	200	0.403	
DRO >C10-C28*	<10.0	10.0	08/20/2018	ND	200	100	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	08/20/2018	ND					

Surrogate: 1-Chlorooctane 92.1 % 41-142

Surrogate: 1-Chlorooctadecane 89.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received: 08/17/2018
Reported: 08/24/2018
Project Name: SRO STATE COM #2H
Project Number: 07/15/18
Project Location: COG - MALAGA

Sampling Date: 08/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 2 (H802315-06)

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	08/21/2018	ND	1.93	96.6	2.00	1.14	
Toluene*	<0.050	0.050	08/21/2018	ND	1.84	91.9	2.00	1.79	
Ethylbenzene*	<0.050	0.050	08/21/2018	ND	1.87	93.3	2.00	1.13	
Total Xylenes*	<0.150	0.150	08/21/2018	ND	5.60	93.3	6.00	1.11	
Total BTX	<0.300	0.300	08/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	08/21/2018	ND	400	100	400	7.69	

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	08/20/2018	ND	196	98.0	200	0.403	
DRO >C10-C28*	<10.0	10.0	08/20/2018	ND	200	100	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	08/20/2018	ND					

Surrogate: 1-Chlorooctane 91.4 % 41-142

Surrogate: 1-Chlorooctadecane 83.2 % 37.6-147

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Received: 08/17/2018
Reported: 08/24/2018
Project Name: SRO STATE COM #2H
Project Number: 07/15/18
Project Location: COG - MALAGA

Sampling Date: 08/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 3 (H802315-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/21/2018	ND	400	100	400	7.69		

Sample ID: SP 3 @ SURFACE (H802315-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3800	16.0	08/21/2018	ND	400	100	400	7.69	

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Received: 08/17/2018
Reported: 08/24/2018
Project Name: SRO STATE COM #2H
Project Number: 07/15/18
Project Location: COG - MALAGA

Sampling Date: 08/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ 1 (H802315-09)

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	08/21/2018	ND	1.93	96.6	2.00	1.14	
Toluene*	<0.050	0.050	08/21/2018	ND	1.84	91.9	2.00	1.79	
Ethylbenzene*	<0.050	0.050	08/21/2018	ND	1.87	93.3	2.00	1.13	
Total Xylenes*	<0.150	0.150	08/21/2018	ND	5.60	93.3	6.00	1.11	
Total BTEX	<0.300	0.300	08/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5200	16.0	08/21/2018	ND	400	100	400	7.69		

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	08/20/2018	ND	196	98.0	200	0.403	
DRO >C10-C28*	90.5	10.0	08/20/2018	ND	200	100	200	1.84	
EXT DRO >C28-C36	16.2	10.0	08/20/2018	ND					

Surrogate: 1-Chlorooctane 99.2 % 41-142

Surrogate: 1-Chlorooctadecane 98.6 % 37.6-147

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Received: 08/17/2018
Reported: 08/24/2018
Project Name: SRO STATE COM #2H
Project Number: 07/15/18
Project Location: COG - MALAGA

Sampling Date: 08/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ 2 (H802315-10)

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	08/21/2018	ND	1.93	96.6	2.00	1.14	
Toluene*	<0.050	0.050	08/21/2018	ND	1.84	91.9	2.00	1.79	
Ethylbenzene*	<0.050	0.050	08/21/2018	ND	1.87	93.3	2.00	1.13	
Total Xylenes*	<0.150	0.150	08/21/2018	ND	5.60	93.3	6.00	1.11	
Total BTX	<0.300	0.300	08/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	08/21/2018	ND	400	100	400	7.69	

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	08/20/2018	ND	196	98.0	200	0.403	
DRO >C10-C28*	<10.0	10.0	08/20/2018	ND	200	100	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	08/20/2018	ND					

Surrogate: 1-Chlorooctane 96.6 % 41-142

Surrogate: 1-Chlorooctadecane 90.3 % 37.6-147

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Received: 08/17/2018
Reported: 08/24/2018
Project Name: SRO STATE COM #2H
Project Number: 07/15/18
Project Location: COG - MALAGA

Sampling Date: 08/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ 3 (H802315-11)

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	08/21/2018	ND	400	100	400	7.69		

Sample ID: SP 4 @ SURFACE (H802315-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6960	16.0	08/21/2018	ND	400	100	400	7.69	

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Received: 08/17/2018
Reported: 08/24/2018
Project Name: SRO STATE COM #2H
Project Number: 07/15/18
Project Location: COG - MALAGA

Sampling Date: 08/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 4 @ 1 (H802315-13)

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	08/21/2018	ND	1.93	96.6	2.00	1.14	
Toluene*	<0.050	0.050	08/21/2018	ND	1.84	91.9	2.00	1.79	
Ethylbenzene*	<0.050	0.050	08/21/2018	ND	1.87	93.3	2.00	1.13	
Total Xylenes*	<0.150	0.150	08/21/2018	ND	5.60	93.3	6.00	1.11	
Total BTEX	<0.300	0.300	08/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	08/21/2018	ND	400	100	400	7.69	

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	08/20/2018	ND	196	98.0	200	0.403	
DRO >C10-C28*	12.3	10.0	08/20/2018	ND	200	100	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	08/20/2018	ND					

Surrogate: 1-Chlorooctane 99.6 % 41-142

Surrogate: 1-Chlorooctadecane 94.1 % 37.6-147

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Analytical Results For:

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P.O. Box 805
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Fax To: (575) 397-0397

Received: 08/17/2018
Reported: 08/24/2018
Project Name: SRO STATE COM #2H
Project Number: 07/15/18
Project Location: COG - MALAGA

Sampling Date: 08/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 4 @ 2 (H802315-14)

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	08/21/2018	ND	1.93	96.6	2.00	1.14	
Toluene*	<0.050	0.050	08/21/2018	ND	1.84	91.9	2.00	1.79	
Ethylbenzene*	<0.050	0.050	08/21/2018	ND	1.87	93.3	2.00	1.13	
Total Xylenes*	<0.150	0.150	08/21/2018	ND	5.60	93.3	6.00	1.11	
Total BTX	<0.300	0.300	08/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/21/2018	ND	400	100	400	7.69	

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	08/20/2018	ND	196	98.0	200	0.403	
DRO >C10-C28*	<10.0	10.0	08/20/2018	ND	200	100	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	08/20/2018	ND					

Surrogate: 1-Chlorooctane 93.9 % 41-142

Surrogate: 1-Chlorooctadecane 85.9 % 37.6-147

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Received: 08/17/2018
Reported: 08/24/2018
Project Name: SRO STATE COM #2H
Project Number: 07/15/18
Project Location: COG - MALAGA

Sampling Date: 08/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 5 @ SURFACE (H802315-15)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5200	16.0	08/21/2018	ND	400	100	400	7.69	

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Received: 08/17/2018
Reported: 08/24/2018
Project Name: SRO STATE COM #2H
Project Number: 07/15/18
Project Location: COG - MALAGA

Sampling Date: 08/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 5 @ 1 (H802315-16)

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	08/21/2018	ND	1.93	96.6	2.00	1.14	
Toluene*	<0.050	0.050	08/21/2018	ND	1.84	91.9	2.00	1.79	
Ethylbenzene*	<0.050	0.050	08/21/2018	ND	1.87	93.3	2.00	1.13	
Total Xylenes*	<0.150	0.150	08/21/2018	ND	5.60	93.3	6.00	1.11	
Total BTEx	<0.300	0.300	08/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	08/21/2018	ND	400	100	400	7.69		

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	08/20/2018	ND	196	98.0	200	0.403	
DRO >C10-C28*	<10.0	10.0	08/20/2018	ND	200	100	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	08/20/2018	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 94.9 % 37.6-147

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Received: 08/17/2018
Reported: 08/24/2018
Project Name: SRO STATE COM #2H
Project Number: 07/15/18
Project Location: COG - MALAGA

Sampling Date: 08/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 5 @ 2 (H802315-17)

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	08/21/2018	ND	1.93	96.6	2.00	1.14	
Toluene*	<0.050	0.050	08/21/2018	ND	1.84	91.9	2.00	1.79	
Ethylbenzene*	<0.050	0.050	08/21/2018	ND	1.87	93.3	2.00	1.13	
Total Xylenes*	<0.150	0.150	08/21/2018	ND	5.60	93.3	6.00	1.11	
Total BTEX	<0.300	0.300	08/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 69.8-142

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	08/21/2018	ND	400	100	400	7.69	

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	08/20/2018	ND	196	98.0	200	0.403	
DRO >C10-C28*	<10.0	10.0	08/20/2018	ND	200	100	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	08/20/2018	ND					

Surrogate: 1-Chlorooctane 96.3 % 41-142

Surrogate: 1-Chlorooctadecane 90.4 % 37.6-147

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Analytical Results For:

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Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received: 08/17/2018
Reported: 08/24/2018
Project Name: SRO STATE COM #2H
Project Number: 07/15/18
Project Location: COG - MALAGA

Sampling Date: 08/15/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 6 @ SURFACE (H802315-18)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/21/2018	ND	400	100	400	7.69	

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Received: 08/17/2018
Reported: 08/24/2018
Project Name: SRO STATE COM #2H
Project Number: 07/15/18
Project Location: COG - MALAGA

Sampling Date: 08/16/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 6 @ 1 (H802315-19)

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	08/21/2018	ND	1.93	96.6	2.00	1.14	
Toluene*	<0.050	0.050	08/21/2018	ND	1.84	91.9	2.00	1.79	
Ethylbenzene*	<0.050	0.050	08/21/2018	ND	1.87	93.3	2.00	1.13	
Total Xylenes*	<0.150	0.150	08/21/2018	ND	5.60	93.3	6.00	1.11	
Total BTEX	<0.300	0.300	08/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/21/2018	ND	400	100	400	7.69	

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	08/20/2018	ND	196	98.0	200	0.403	
DRO >C10-C28*	<10.0	10.0	08/20/2018	ND	200	100	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	08/20/2018	ND					

Surrogate: 1-Chlorooctane 91.9 % 41-142

Surrogate: 1-Chlorooctadecane 86.0 % 37.6-147

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Received: 08/17/2018
Reported: 08/24/2018
Project Name: SRO STATE COM #2H
Project Number: 07/15/18
Project Location: COG - MALAGA

Sampling Date: 08/16/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 7 @ SURFACE (H802315-20)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	08/21/2018	ND	400	100	400	7.69	

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Received: 08/17/2018
Reported: 08/24/2018
Project Name: SRO STATE COM #2H
Project Number: 07/15/18
Project Location: COG - MALAGA

Sampling Date: 08/16/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 7 @ 1 (H802315-21)

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	08/21/2018	ND	1.93	96.6	2.00	1.14	
Toluene*	<0.050	0.050	08/21/2018	ND	1.84	91.9	2.00	1.79	
Ethylbenzene*	<0.050	0.050	08/21/2018	ND	1.87	93.3	2.00	1.13	
Total Xylenes*	<0.150	0.150	08/21/2018	ND	5.60	93.3	6.00	1.11	
Total BTEX	<0.300	0.300	08/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	08/21/2018	ND	400	100	400	7.69	

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	08/20/2018	ND	196	98.0	200	0.403	
DRO >C10-C28*	<10.0	10.0	08/20/2018	ND	200	100	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	08/20/2018	ND					

Surrogate: 1-Chlorooctane 91.3 % 41-142

Surrogate: 1-Chlorooctadecane 85.4 % 37.6-147

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Received:	08/17/2018	Sampling Date:	08/16/2018
Reported:	08/24/2018	Sampling Type:	Soil
Project Name:	SRO STATE COM #2H	Sampling Condition:	Cool & Intact
Project Number:	07/15/18	Sample Received By:	Tamara Oldaker
Project Location:	COG - MALAGA		

Sample ID: SP 7 @ 2 (H802315-22)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3040	16.0	08/21/2018	ND	432	108	400	0.00	QM-07	

Sample ID: SP 7 @ 3 (H802315-23)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	08/21/2018	ND	432	108	400	0.00	

Sample ID: SP 7 @ 4 (H802315-24)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	08/21/2018	ND	432	108	400	0.00	

Sample ID: SP 8 @ SURFACE (H802315-25)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	08/21/2018	ND	432	108	400	0.00	

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Received: 08/17/2018
Reported: 08/24/2018
Project Name: SRO STATE COM #2H
Project Number: 07/15/18
Project Location: COG - MALAGA

Sampling Date: 08/16/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 8 @ 1 (H802315-26)

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	08/21/2018	ND	1.93	96.6	2.00	1.14	
Toluene*	<0.050	0.050	08/21/2018	ND	1.84	91.9	2.00	1.79	
Ethylbenzene*	<0.050	0.050	08/21/2018	ND	1.87	93.3	2.00	1.13	
Total Xylenes*	<0.150	0.150	08/21/2018	ND	5.60	93.3	6.00	1.11	
Total BTEx	<0.300	0.300	08/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.6 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1400	16.0	08/21/2018	ND	432	108	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	08/20/2018	ND	196	98.0	200	0.403	
DRO >C10-C28*	<10.0	10.0	08/20/2018	ND	200	100	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	08/20/2018	ND					

Surrogate: 1-Chlorooctane 89.9 % 41-142

Surrogate: 1-Chlorooctadecane 85.1 % 37.6-147

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Received: 08/17/2018
Reported: 08/24/2018
Project Name: SRO STATE COM #2H
Project Number: 07/15/18
Project Location: COG - MALAGA

Sampling Date: 08/16/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SP 8 @ 2 (H802315-27)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/21/2018	ND	432	108	400	0.00	

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Received: 08/17/2018
Reported: 08/24/2018
Project Name: SRO STATE COM #2H
Project Number: 07/15/18
Project Location: COG - MALAGA

Sampling Date: 08/16/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: N @ SURFACE (H802315-28)

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	08/21/2018	ND	1.93	96.6	2.00	1.14	
Toluene*	<0.050	0.050	08/21/2018	ND	1.84	91.9	2.00	1.79	
Ethylbenzene*	<0.050	0.050	08/21/2018	ND	1.87	93.3	2.00	1.13	
Total Xylenes*	<0.150	0.150	08/21/2018	ND	5.60	93.3	6.00	1.11	
Total BTX	<0.300	0.300	08/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/21/2018	ND	432	108	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	08/20/2018	ND	196	98.0	200	0.403	
DRO >C10-C28*	<10.0	10.0	08/20/2018	ND	200	100	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	08/20/2018	ND					

Surrogate: 1-Chlorooctane 96.5 % 41-142

Surrogate: 1-Chlorooctadecane 90.1 % 37.6-147

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Received: 08/17/2018
Reported: 08/24/2018
Project Name: SRO STATE COM #2H
Project Number: 07/15/18
Project Location: COG - MALAGA

Sampling Date: 08/16/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: E @ SURFACE (H802315-29)

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	08/22/2018	ND	1.93	96.6	2.00	1.14		
Toluene*	<0.050	0.050	08/22/2018	ND	1.84	91.9	2.00	1.79		
Ethylbenzene*	<0.050	0.050	08/22/2018	ND	1.87	93.3	2.00	1.13		
Total Xylenes*	<0.150	0.150	08/22/2018	ND	5.60	93.3	6.00	1.11		
Total BTEx	<0.300	0.300	08/22/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	08/21/2018	ND	432	108	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	08/21/2018	ND	205	103	200	0.866	
DRO >C10-C28*	<10.0	10.0	08/21/2018	ND	208	104	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	08/21/2018	ND					

Surrogate: 1-Chlorooctane 94.6 % 41-142

Surrogate: 1-Chlorooctadecane 88.5 % 37.6-147

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Received: 08/17/2018
Reported: 08/24/2018
Project Name: SRO STATE COM #2H
Project Number: 07/15/18
Project Location: COG - MALAGA

Sampling Date: 08/16/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: W @ SURFACE (H802315-30)

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	08/22/2018	ND	1.93	96.6	2.00	1.14		
Toluene*	<0.050	0.050	08/22/2018	ND	1.84	91.9	2.00	1.79		
Ethylbenzene*	<0.050	0.050	08/22/2018	ND	1.87	93.3	2.00	1.13		
Total Xylenes*	<0.150	0.150	08/22/2018	ND	5.60	93.3	6.00	1.11		
Total BTX	<0.300	0.300	08/22/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/21/2018	ND	432	108	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	08/21/2018	ND	205	103	200	0.866	
DRO >C10-C28*	<10.0	10.0	08/21/2018	ND	208	104	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	08/21/2018	ND					

Surrogate: 1-Chlorooctane 87.2 % 41-142

Surrogate: 1-Chlorooctadecane 80.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (575) 397-0397

Received: 08/17/2018
Reported: 08/24/2018
Project Name: SRO STATE COM #2H
Project Number: 07/15/18
Project Location: COG - MALAGA

Sampling Date: 08/16/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S @ SURFACE (H802315-31)

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	08/21/2018	ND	1.85	92.6	2.00	3.01	
Toluene*	<0.050	0.050	08/21/2018	ND	1.74	87.0	2.00	2.88	
Ethylbenzene*	<0.050	0.050	08/21/2018	ND	1.72	86.1	2.00	3.27	
Total Xylenes*	<0.150	0.150	08/21/2018	ND	5.21	86.8	6.00	3.16	
Total BTX	<0.300	0.300	08/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	08/21/2018	ND	432	108	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	08/21/2018	ND	205	103	200	0.866	
DRO >C10-C28*	<10.0	10.0	08/21/2018	ND	208	104	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	08/21/2018	ND					

Surrogate: 1-Chlorooctane 88.4 % 41-142

Surrogate: 1-Chlorooctadecane 81.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

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

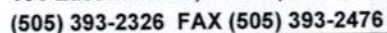
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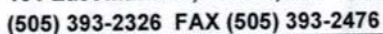


Celey D. Keene, Lab Director/Quality Manager



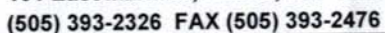
Page 29 of 32

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



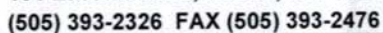
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Page 31 of 32

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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

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

JUL 17 2018

Form C-141
Revised April 3, 2017

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

DISTRICT II ARTESIA O.C.D.
District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

NAB18199323149

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: COG Operating, LLC (OGRID #229137)	Contact: Robert McNeill
Address: 600 West Illinois Avenue, Midland, TX 79701	Telephone No. 432-683-7443
Facility Name: SRO State Com #002H	Facility Type: Tank Battery

Surface Owner: State	Mineral Owner: State	API No. 30-015-37141
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LOCATION OF RELEASE

Unit Letter P	Section 32	Township 25S	Range 28E	Feet from the 430	North/South Line South	Feet from the 330	East/West Line East	County Eddy
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Latitude 32.080101 Longitude -104.1018906 NAD83

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 190 bbl.	Volume Recovered 180 bbl.
Source of Release Lightning Strike	Date and Hour of Occurrence July 15, 2018 6:30pm	Date and Hour of Discovery July 15, 2018 6:30pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher – NMOCD Ryan Mann – SLO	
By Whom? DeAnn Grant	Date and Hour July 16, 2018 9:03am	
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.*

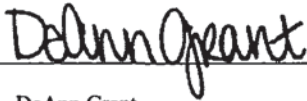


Describe Cause of Problem and Remedial Action Taken.*

The release was caused by a lightning strike to the overflow water tank. The damaged tanks will be replaced.

Describe Area Affected and Cleanup Action Taken.*

The release occurred within the lined facility. A vacuum truck was dispatched to remove all freestanding fluids. Concho will have the spill area evaluated for any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

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: DeAnn Grant	Approved by Environmental Specialist: 	
Title: HSE Administrative Assistant	Approval Date: 7/17/18	Expiration Date: N/A
E-mail Address: agrant@concho.com	Conditions of Approval: See attached	
Date: July 16, 2018 Phone: (432) 253-4513	Attached: 	

* Attach Additional Sheets If Necessary

Operator/Responsible Party,

The OCD has received the form C-141 you provided on July 17, 2018 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 8RP4868 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 2 office in Artesia on or before 8/15/18.** 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; C₆ thru C₃₆), 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; C₆ thru C₃₆), 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

Pruett, Maria, EMNRD

From: Bratcher, Mike, EMNRD
Sent: Tuesday, July 17, 2018 11:10 AM
To: Pruett, Maria, EMNRD
Subject: FW: (Initial C-141) SRO State Com #002H Battery (30-015-37141) 07-15-2018
Attachments: (Initial C-141) SRO State Com #002H Battery (30-015-37141) 07-15-2018.pdf

From: DeAnn Grant <agrant@concho.com>
Sent: Monday, July 16, 2018 3:03 PM
To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Mann, Ryan <rmann@slo.state.nm.us>
Cc: Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>; Ike Tavarez <itavarez@concho.com>; Sheldon Hitchcock <SLHitchcock@concho.com>; Dakota Neel <DNeel2@concho.com>; Rebecca Haskell <RHaskell@concho.com>; DeAnn Grant <agrant@concho.com>
Subject: (Initial C-141) SRO State Com #002H Battery (30-015-37141) 07-15-2018

Mr. Bratcher/Mr. Mann,

Please find the attached Initial C-141 for your consideration. If you have any questions or concerns please contact me.

Thank you,

DeAnn Grant

HSE Administrative Assistant

agrant@concho.com

COG Operating LLC

600 W Illinois Avenue | Midland, TX 79701

Direct: 432-253-4513 | Main: 432.683.7443



CONCHO

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Bratcher, Mike, EMNRD

From: DeAnn Grant <agrant@concho.com>
Sent: Monday, July 16, 2018 8:03 AM
To: Bratcher, Mike, EMNRD; Mann, Ryan
Cc: Weaver, Crystal, EMNRD; Sheldon Hitchcock; Dakota Neel; Rebecca Haskell; DeAnn Grant
Subject: (Notification) SRO State Com #002H (30-015-37141) 07-15-2018

COG Operating, LLC (OGRID# 229137) is reporting a produced water release at the SRO State Com #002H (30-015-37141).

Release Location:

ULSTR: P-32-25S-28E

Lat/Long: 32.080101, -104.1018906

Date of Release: July 15, 2018

Release Volume: >25bbbls

Recovery Volume: On going

COG will have the release evaluated and will submit an initial C-141. If you have any questions or concerns please do not hesitate to contact me.

Thank you,

DeAnn Grant

HSE Administrative Assistant

agrant@concho.com

COG Operating LLC

600 W Illinois Avenue | Midland, TX 79701

Direct: 432-253-4513 | Main: 432.683.7443



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