

Closure Report

Site Description

Site Name:	Smith Ranch Federal #002 1RP-5007
Company:	COG Operating LLC
Legal Description:	U/L C, Section 11, T20S, R33E
County:	Lea County, NM
GPS Coordinates:	N 32.59298° W-103.63583°

Release Data

Date of Release:	3/31/18
Type of Release:	Produced water
Source of Release:	Compromised tank
Volume of Release:	50 bbls
Volume Recovered:	40 bbls

Remediation Specifications

Remediation Parameters:	Excavated the areas of SP1, SP5, & SP9 to a depth of 4' and placed a liner in the excavation. Excavated the areas of SP2-SP4 to a depth of 3'. Excavated the area of SP6 to a depth of 1'. Excavated the areas of SP7 and SP8 to a depth of 4'. Obtained confirmation samples and backfilled the site with clean soil.	
Remediation Activities:	3/8/19 to 4/22/19	
Plan Sent to OCD:	8/10/18	Email from Cliff Brunson to Christina Hernandez
OCD Approval of Plan:	8/29/18	Email from Christina Hernandez to Cliff Brunson
Plan Sent to BLM:	8/10/18	Email from Cliff Brunson to Shelly Tucker
BLM Approval of Plan:	8/29/18	Email from Shelly Tucker to Cliff Brunson

Supporting Documentation

Initial C-141	Signed 4/2/18
C-141, page 6	Signed 4/25/19
Site Diagram	March 2019
Pictures	Remediation pictures prior to and after backfill

Request for Closure

Based on the completion of the remediation plan, BBC International, Inc. requests closure approval from NMOCD.

Cliff Brunson, President, BBC International, Inc.

04/25/2019



COG, Smith Ranch Federal#002

Leak date: 03/31/2018
Lea County, NM
API# 30-025-31138
1RP-5007

COG, Smith Ranch Federal #002

Sample points

SP1, N 32.59304 W-103.63566
SP2, N 32.59296 W-103.63566
SP3, N 32.59287 W-103.63566
SP4, N 32.59280 W-103.63566
SP5, N 32.59307 W-103.63575
SP6, N 32.59295 W-103.63575
SP7, N 32.59287 W-103.63576
SP8, N 32.59280 W-103.63575
SP9, N 32.59304 W-103.63570
NORTH, N 32.59311 W-103.63571
SOUTH, N 32.59276 W-103.63570
EAST, N 32.59291 W-103.63560
WEST, N 32.59291 W-103.63579

Confirmation sample points

SP1 @ N, N 32.59307 W-103.63566	SP4 @ 3' N, N 32.59292 W-103.63565
SP1 @ E, N 32.59302 W-103.63562	SP4 @ 3' S, N 32.59282 W-103.63566
SP1 @ W, N 32.59302 W-103.63569	SP4 @ W, N 32.59291 W-103.63569
SP1 @ S, N 32.59298 W-103.63565	SP4 @ S, N 32.59277 W-103.63566
SP2 @ 1', N 32.59292 W-103.63575	SP4 @ E, N 32.59286 W-103.63562
SP2 @ W, N 32.59297 W-103.63576	
SP3 @ 4', N 32.59284 W-103.63574	
SP3 @ W, N 32.59285 W-103.63577	
SP3 @ E, N 32.59283 W-103.63571	
SP3 @ S, N 32.59277 W-103.63573	





















Laboratory Analytical Results Summary
Smith Ranch Federal #002

		Sample ID	SP1 @ NORTH WALL	SP1 @ EAST WALL	SP1 @ WEST WALL	SP1 @ SOUTH WALL
Analyte	Method	Date	4/11/19	4/11/19	4/11/19	4/11/19
			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		272	192	208	48
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

		Sample ID	SP2 @ 1'	SP2 @ WEST WALL
Analyte	Method	Date	4/11/19	4/11/19
			mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500Cl-B		160	240
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0

		Sample ID	SP3 @ 4'	SP3 @ WEST WALL	SP3 @ EAST WALL	SP3 @ SOUTH WALL
Analyte	Method	Date	4/11/19	4/11/19	4/11/19	4/11/19
			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		144	144	32	32
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

		Sample ID	SP4 @ 3' NORTH	SP4 @ 3' SOUTH	SP4 @ WEST WALL	SP4 @ SOUTH WALL	SP4 @ EAST WALL
Analyte	Method	Date	4/11/19	4/11/19	4/11/19	4/11/19	4/11/19
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		16	32	32	32	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0



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

April 12, 2019

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SMITH RANCH FEDERAL #2

Enclosed are the results of analyses for samples received by the laboratory on 04/11/19 16:40.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/11/2019	Sampling Date:	04/11/2019
Reported:	04/12/2019	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG- 62 / 180		

Sample ID: SP 1 @ N. WALL (H901340-01)

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	04/12/2019	ND	2.03	102	2.00	2.50	
Toluene*	<0.050	0.050	04/12/2019	ND	2.06	103	2.00	2.09	
Ethylbenzene*	<0.050	0.050	04/12/2019	ND	2.05	102	2.00	1.56	
Total Xylenes*	<0.150	0.150	04/12/2019	ND	6.07	101	6.00	1.82	
Total BTEX	<0.300	0.300	04/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	04/12/2019	ND	448	112	400	3.64		

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	04/11/2019	ND	197	98.3	200	5.18	
DRO >C10-C28*	<10.0	10.0	04/11/2019	ND	194	97.2	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	04/11/2019	ND					

Surrogate: 1-Chlorooctane 82.2 % 41-142

Surrogate: 1-Chlorooctadecane 88.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/11/2019	Sampling Date:	04/11/2019
Reported:	04/12/2019	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG- 62 / 180		

Sample ID: SP 1 @ E. WALL (H901340-02)

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	04/12/2019	ND	2.03	102	2.00	2.50		
Toluene*	<0.050	0.050	04/12/2019	ND	2.06	103	2.00	2.09		
Ethylbenzene*	<0.050	0.050	04/12/2019	ND	2.05	102	2.00	1.56		
Total Xylenes*	<0.150	0.150	04/12/2019	ND	6.07	101	6.00	1.82		
Total BTX	<0.300	0.300	04/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 87.2 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	04/12/2019	ND	448	112	400	3.64		

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	04/11/2019	ND	197	98.3	200	5.18	
DRO >C10-C28*	<10.0	10.0	04/11/2019	ND	194	97.2	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	04/11/2019	ND					

Surrogate: 1-Chlorooctane 79.6 % 41-142

Surrogate: 1-Chlorooctadecane 86.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/11/2019	Sampling Date:	04/11/2019
Reported:	04/12/2019	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG- 62 / 180		

Sample ID: SP 1 @ W. WALL (H901340-03)

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	04/12/2019	ND	2.03	102	2.00	2.50	
Toluene*	<0.050	0.050	04/12/2019	ND	2.06	103	2.00	2.09	
Ethylbenzene*	<0.050	0.050	04/12/2019	ND	2.05	102	2.00	1.56	
Total Xylenes*	<0.150	0.150	04/12/2019	ND	6.07	101	6.00	1.82	
Total BTX	<0.300	0.300	04/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.9 % 73.3-129

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	04/12/2019	ND	448	112	400	3.64		

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	04/12/2019	ND	197	98.3	200	5.18	
DRO >C10-C28*	<10.0	10.0	04/12/2019	ND	194	97.2	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	04/12/2019	ND					

Surrogate: 1-Chlorooctane 78.8 % 41-142

Surrogate: 1-Chlorooctadecane 85.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
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 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	04/11/2019	Sampling Date:	04/11/2019
Reported:	04/12/2019	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG- 62 / 180		

Sample ID: SP 1 @ S. WALL (H901340-04)

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	04/12/2019	ND	2.03	102	2.00	2.50		
Toluene*	<0.050	0.050	04/12/2019	ND	2.06	103	2.00	2.09		
Ethylbenzene*	<0.050	0.050	04/12/2019	ND	2.05	102	2.00	1.56		
Total Xylenes*	<0.150	0.150	04/12/2019	ND	6.07	101	6.00	1.82		
Total BTEx	<0.300	0.300	04/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 82.4 % 73.3-129

Chloride, SM4500CI-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	04/12/2019	ND	448	112	400	3.64		

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	04/12/2019	ND	197	98.3	200	5.18	
DRO >C10-C28*	<10.0	10.0	04/12/2019	ND	194	97.2	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	04/12/2019	ND					

Surrogate: 1-Chlorooctane 79.2 % 41-142

Surrogate: 1-Chlorooctadecane 84.7 % 37.6-147

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Received:	04/11/2019	Sampling Date:	04/11/2019
Reported:	04/12/2019	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG- 62 / 180		

Sample ID: SP 2 @ 1' (H901340-05)

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	04/12/2019	ND	2.03	102	2.00	2.50	
Toluene*	<0.050	0.050	04/12/2019	ND	2.06	103	2.00	2.09	
Ethylbenzene*	<0.050	0.050	04/12/2019	ND	2.05	102	2.00	1.56	
Total Xylenes*	<0.150	0.150	04/12/2019	ND	6.07	101	6.00	1.82	
Total BTEx	<0.300	0.300	04/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 84.7 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/12/2019	ND	416	104	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	04/12/2019	ND	197	98.3	200	5.18	
DRO >C10-C28*	<10.0	10.0	04/12/2019	ND	194	97.2	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	04/12/2019	ND					

Surrogate: 1-Chlorooctane 81.8 % 41-142

Surrogate: 1-Chlorooctadecane 88.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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 Fax To: (575) 397-0397

Received:	04/11/2019	Sampling Date:	04/11/2019
Reported:	04/12/2019	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG- 62 / 180		

Sample ID: SP 2 @ W. WALL (H901340-06)

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	04/12/2019	ND	2.03	102	2.00	2.50	
Toluene*	<0.050	0.050	04/12/2019	ND	2.06	103	2.00	2.09	
Ethylbenzene*	<0.050	0.050	04/12/2019	ND	2.05	102	2.00	1.56	
Total Xylenes*	<0.150	0.150	04/12/2019	ND	6.07	101	6.00	1.82	
Total BTX	<0.300	0.300	04/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.4 % 73.3-129

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	04/12/2019	ND	416	104	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	04/12/2019	ND	197	98.3	200	5.18	
DRO >C10-C28*	<10.0	10.0	04/12/2019	ND	194	97.2	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	04/12/2019	ND					

Surrogate: 1-Chlorooctane 77.8 % 41-142

Surrogate: 1-Chlorooctadecane 83.2 % 37.6-147

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

Analytical Results For:

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

Received:	04/11/2019	Sampling Date:	04/11/2019
Reported:	04/12/2019	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG- 62 / 180		

Sample ID: SP 3 @ 4' (H901340-07)

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	04/12/2019	ND	2.03	102	2.00	2.50		
Toluene*	<0.050	0.050	04/12/2019	ND	2.06	103	2.00	2.09		
Ethylbenzene*	<0.050	0.050	04/12/2019	ND	2.05	102	2.00	1.56		
Total Xylenes*	<0.150	0.150	04/12/2019	ND	6.07	101	6.00	1.82		
Total BTX	<0.300	0.300	04/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	04/12/2019	ND	416	104	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	04/12/2019	ND	197	98.3	200	5.18	
DRO >C10-C28*	<10.0	10.0	04/12/2019	ND	194	97.2	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	04/12/2019	ND					

Surrogate: 1-Chlorooctane 82.1 % 41-142

Surrogate: 1-Chlorooctadecane 87.7 % 37.6-147

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Analytical Results For:

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

Received:	04/11/2019	Sampling Date:	04/11/2019
Reported:	04/12/2019	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG- 62 / 180		

Sample ID: SP 3 @ W. WALL (H901340-08)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2019	ND	2.03	102	2.00	2.50	
Toluene*	<0.050	0.050	04/12/2019	ND	2.06	103	2.00	2.09	
Ethylbenzene*	<0.050	0.050	04/12/2019	ND	2.05	102	2.00	1.56	
Total Xylenes*	<0.150	0.150	04/12/2019	ND	6.07	101	6.00	1.82	
Total BTEx	<0.300	0.300	04/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 82.4 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	04/12/2019	ND	416	104	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	04/12/2019	ND	197	98.3	200	5.18	
DRO >C10-C28*	<10.0	10.0	04/12/2019	ND	194	97.2	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	04/12/2019	ND					

Surrogate: 1-Chlorooctane 75.7 % 41-142

Surrogate: 1-Chlorooctadecane 87.4 % 37.6-147

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Analytical Results For:

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

Received:	04/11/2019	Sampling Date:	04/11/2019
Reported:	04/12/2019	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG- 62 / 180		

Sample ID: SP 3 @ E. WALL (H901340-09)

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	04/12/2019	ND	2.03	102	2.00	2.50		
Toluene*	<0.050	0.050	04/12/2019	ND	2.06	103	2.00	2.09		
Ethylbenzene*	<0.050	0.050	04/12/2019	ND	2.05	102	2.00	1.56		
Total Xylenes*	<0.150	0.150	04/12/2019	ND	6.07	101	6.00	1.82		
Total BTEX	<0.300	0.300	04/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.3 % 73.3-129

Chloride, SM4500Cl-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	04/12/2019	ND	416	104	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	04/12/2019	ND	197	98.3	200	5.18	
DRO >C10-C28*	<10.0	10.0	04/12/2019	ND	194	97.2	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	04/12/2019	ND					

Surrogate: 1-Chlorooctane 76.0 % 41-142

Surrogate: 1-Chlorooctadecane 81.1 % 37.6-147

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Analytical Results For:

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 Fax To: (575) 397-0397

Received:	04/11/2019	Sampling Date:	04/11/2019
Reported:	04/12/2019	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG- 62 / 180		

Sample ID: SP 3 @ S. WALL (H901340-10)

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	04/12/2019	ND	2.09	105	2.00	1.12	
Toluene*	<0.050	0.050	04/12/2019	ND	1.95	97.7	2.00	1.82	
Ethylbenzene*	<0.050	0.050	04/12/2019	ND	2.04	102	2.00	0.286	
Total Xylenes*	<0.150	0.150	04/12/2019	ND	6.22	104	6.00	0.448	
Total BTEx	<0.300	0.300	04/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 73.3-129

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	04/12/2019	ND	416	104	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	04/12/2019	ND	197	98.3	200	5.18	
DRO >C10-C28*	<10.0	10.0	04/12/2019	ND	194	97.2	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	04/12/2019	ND					

Surrogate: 1-Chlorooctane 84.2 % 41-142

Surrogate: 1-Chlorooctadecane 90.0 % 37.6-147

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Analytical Results For:

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 Cliff Brunson
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 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	04/11/2019	Sampling Date:	04/11/2019
Reported:	04/12/2019	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG- 62 / 180		

Sample ID: SP 4 @ 3' NORTH (H901340-11)

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	04/12/2019	ND	2.09	105	2.00	1.12		
Toluene*	<0.050	0.050	04/12/2019	ND	1.95	97.7	2.00	1.82		
Ethylbenzene*	<0.050	0.050	04/12/2019	ND	2.04	102	2.00	0.286		
Total Xylenes*	<0.150	0.150	04/12/2019	ND	6.22	104	6.00	0.448		
Total BTX	<0.300	0.300	04/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.0 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/12/2019	ND	416	104	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	04/12/2019	ND	197	98.3	200	5.18	
DRO >C10-C28*	<10.0	10.0	04/12/2019	ND	194	97.2	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	04/12/2019	ND					

Surrogate: 1-Chlorooctane 79.3 % 41-142

Surrogate: 1-Chlorooctadecane 83.6 % 37.6-147

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Analytical Results For:

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

Received:	04/11/2019	Sampling Date:	04/11/2019
Reported:	04/12/2019	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG- 62 / 180		

Sample ID: SP 4 @ 3' SOUTH (H901340-12)

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	04/12/2019	ND	2.09	105	2.00	1.12		
Toluene*	<0.050	0.050	04/12/2019	ND	1.95	97.7	2.00	1.82		
Ethylbenzene*	<0.050	0.050	04/12/2019	ND	2.04	102	2.00	0.286		
Total Xylenes*	<0.150	0.150	04/12/2019	ND	6.22	104	6.00	0.448		
Total BTEx	<0.300	0.300	04/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 73.3-129

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	04/12/2019	ND	416	104	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	04/12/2019	ND	197	98.3	200	5.18	
DRO >C10-C28*	<10.0	10.0	04/12/2019	ND	194	97.2	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	04/12/2019	ND					

Surrogate: 1-Chlorooctane 75.1 % 41-142

Surrogate: 1-Chlorooctadecane 78.5 % 37.6-147

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Analytical Results For:

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

Received:	04/11/2019	Sampling Date:	04/11/2019
Reported:	04/12/2019	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG- 62 / 180		

Sample ID: SP 4 @ W. WALL (H901340-13)

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	04/12/2019	ND	2.09	105	2.00	1.12		
Toluene*	<0.050	0.050	04/12/2019	ND	1.95	97.7	2.00	1.82		
Ethylbenzene*	<0.050	0.050	04/12/2019	ND	2.04	102	2.00	0.286		
Total Xylenes*	<0.150	0.150	04/12/2019	ND	6.22	104	6.00	0.448		
Total BTX	<0.300	0.300	04/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.7 % 73.3-129

Chloride, SM4500Cl-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	04/12/2019	ND	416	104	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	04/12/2019	ND	197	98.3	200	5.18	
DRO >C10-C28*	<10.0	10.0	04/12/2019	ND	194	97.2	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	04/12/2019	ND					

Surrogate: 1-Chlorooctane 72.7 % 41-142

Surrogate: 1-Chlorooctadecane 76.3 % 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:	04/11/2019	Sampling Date:	04/11/2019
Reported:	04/12/2019	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG- 62 / 180		

Sample ID: SP 4 @ S. WALL (H901340-14)

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	04/12/2019	ND	2.09	105	2.00	1.12	
Toluene*	<0.050	0.050	04/12/2019	ND	1.95	97.7	2.00	1.82	
Ethylbenzene*	<0.050	0.050	04/12/2019	ND	2.04	102	2.00	0.286	
Total Xylenes*	<0.150	0.150	04/12/2019	ND	6.22	104	6.00	0.448	
Total BTEx	<0.300	0.300	04/12/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 73.3-129

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	04/12/2019	ND	416	104	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	04/12/2019	ND	197	98.3	200	5.18	
DRO >C10-C28*	<10.0	10.0	04/12/2019	ND	194	97.2	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	04/12/2019	ND					

Surrogate: 1-Chlorooctane 66.3 % 41-142

Surrogate: 1-Chlorooctadecane 70.1 % 37.6-147

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Analytical Results For:

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 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
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Received:	04/11/2019	Sampling Date:	04/11/2019
Reported:	04/12/2019	Sampling Type:	Soil
Project Name:	SMITH RANCH FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	COG- 62 / 180		

Sample ID: SP 4 @ E. WALL (H901340-15)

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	04/12/2019	ND	2.09	105	2.00	1.12		
Toluene*	<0.050	0.050	04/12/2019	ND	1.95	97.7	2.00	1.82		
Ethylbenzene*	<0.050	0.050	04/12/2019	ND	2.04	102	2.00	0.286		
Total Xylenes*	<0.150	0.150	04/12/2019	ND	6.22	104	6.00	0.448		
Total BTEx	<0.300	0.300	04/12/2019	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/12/2019	ND	416	104	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	04/12/2019	ND	197	98.3	200	5.18	
DRO >C10-C28*	<10.0	10.0	04/12/2019	ND	194	97.2	200	3.53	
EXT DRO >C28-C36	<10.0	10.0	04/12/2019	ND					

Surrogate: 1-Chlorooctane 85.2 % 41-142

Surrogate: 1-Chlorooctadecane 90.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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A handwritten signature in cursive script, appearing to read "Celey D. Keene", written in black ink.

Celey D. Keene, Lab Director/Quality Manager

THE UNIVERSITY OF CHICAGO

101 East Main St., Hobbs, NM 88240
(505) 393-2326 FAX (505) 393-2476

CHILD CUSTODY AND ANALYSIS REPORT

[illegible]

2/2

Form C-141

State of New Mexico
Oil Conservation Division

Page 6

Incident ID	
District RP	1RP-5007
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of 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 OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Rebecca HaskellTitle: Senior HSE CoordinatorSignature: Rebecca HaskellDate: 4/25/19email: rhaskell@concho.comTelephone: (432) 683-7443

OCD Only

Received by: _____

Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Brittany HallDate: 11/28/2022Printed Name: Brittany HallTitle: Environmental Specialist

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 161662

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 161662
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
bhall	None	11/28/2022