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DELINEATION WORKPLAN

APPROVED

By Olivia Yu at 12:18 pm, Jun 14, 2017

COG – NM DW STATE #002

(Leak Date: 12/29/16)

RP # 1RP-4549 API # 30-025-34267 NMOCD approves of the delineation and proposed remediation for 1RP-4549 with one condition: Confirmatory laboratory analyses of bottom and sidewall samples at 1 ft. bgs.

This delineation workplan and remediation proposal addresses the release associated with RP # 1RP-4549.

The following information includes:

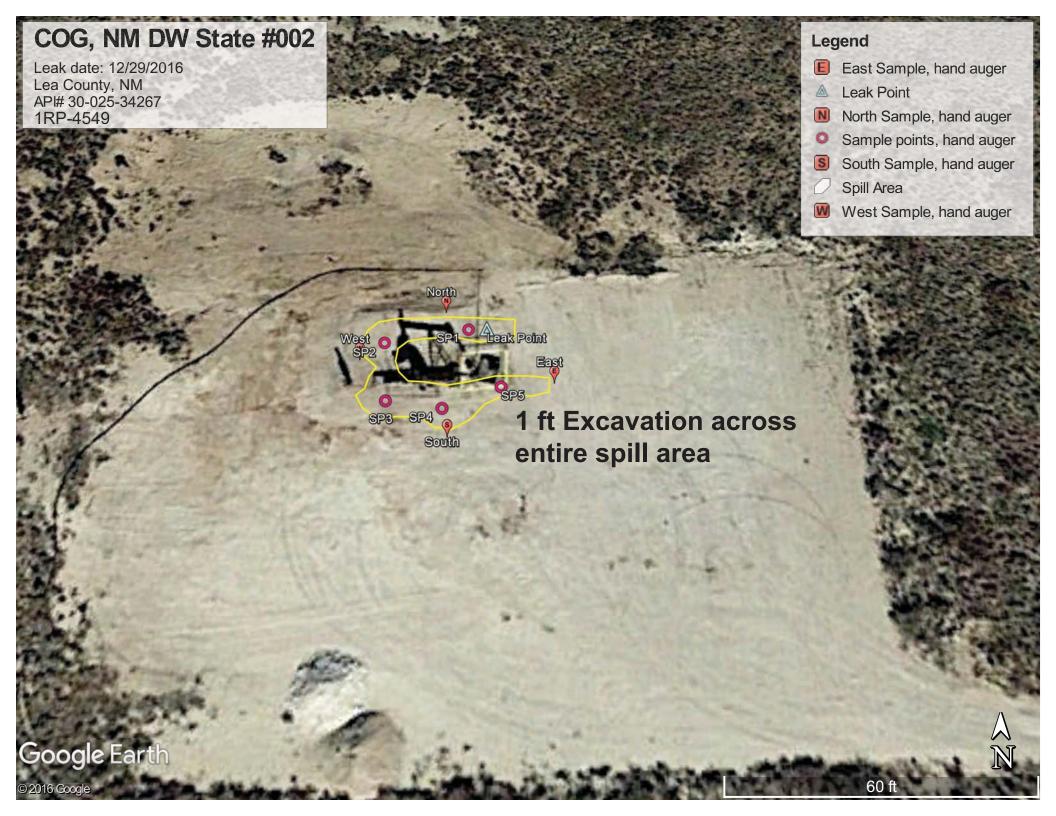
- 1. Scaled digital site map with spill area demarcated and leak point identified along with sample point locations and areas of remediation at appropriate depths.
- 2. GPS information for sample points and sample methodology
- 3. Depth to groundwater information (i.e., pdf of OSE search results and/or 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 will be excavated to a depth of 1 foot.

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, NM DW State #002

Sample points, hand auger

SP1, N 32.42281 W-103.41286

SP2, N 32.42280 W-103.41293

SP3, N 32.42276 W-103.41292

SP4, N 32.42275 W-103.41288

SP5, N 32.42277 W-103.41283

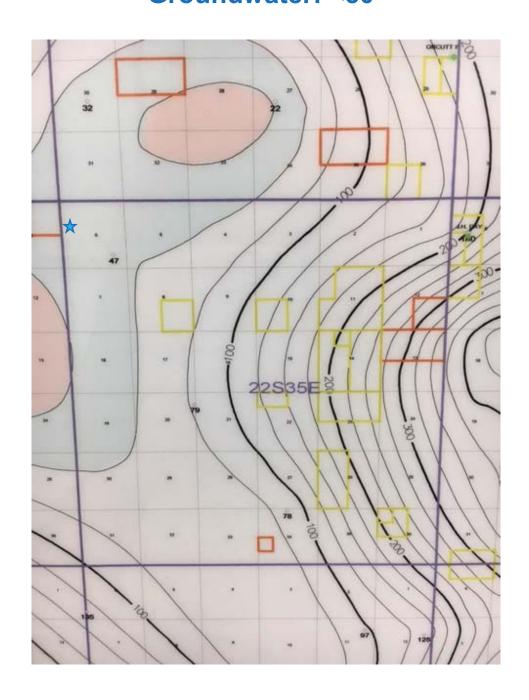
NORTH, N 32.42283 W-103.41288

SOUTH, N 32.42273 W-103.41287

EAST, N 32.42277 W-103.41279

WEST, N 32.42279 W-103.41295

COG, NM DW State #002 U/L E, Section 6, T 22S, R35E 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 Sub-		•	Q	_									Vater
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	DistanceDep	thWellDep	othWater C	olumn
<u>CP 00934</u>			LE	2	1	2	01	22S	34E	648682	3588822	711	60	42	18
<u>CP 00604</u>			LE	1	4	4	01	22S	34E	648743	3587666*	865	135		
CC 00212 POD3			CU	3	4	2	07	02N	34E	649365	3587386	998	368		
<u>CP 00593 POD1</u>		CP	LE		4	4	06	22S	35E	650422	3587591*	1421	62		

Average Depth to Water:

42 feet

Minimum Depth:

42 feet

Maximum Depth:

42 feet

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 649237 **Northing (Y):** 3588377 **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.

5/16/17 10:15 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

0	Public Land Survey System (PLSS) Q64: Q16: SW Q4: NW Sec: 06 Tws: 22S Rng: 35E
0	State Plane Coordinate System - NAD27 X: 0 ft Y: 0 ft Zone:
0	State Plane Coordinate System - NAD83 X: 0 ft Y: 0 ft Zone:
0	Degrees/Minutes/Seconds Longitude (X): Degrees: 0 ° Minutes: 0 ' Seconds: 0 " Latitude (Y): Degrees: 0 ° Minutes: 0 ' Seconds: 0 "
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): 649237.0 mtrs Northing (Y): 3588377.0 mtrs ~~ Please keep screen open to copy UTM values for Reports. ~~

Laboratory Analytical Results Summary NM DW State #002

		Sample	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 6'	SP1 @ 11'
Analyte	Method	Date	2/8/17	2/8/17	4/26/17	4/26/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050	< 0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		< 0.050	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	< 0.150	<0.150	n/a
Total BTEX	BTEX 8021B		< 0.300	< 0.300	< 0.300	n/a
Chloride	SM4500CI-B		1170	80	144	112
GRO	TPH 8015M		<100	<10.0	<10.0	n/a
DRO	TPH 8015M		7030	179	<10.0	n/a

		Sample	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 6'	SP2 @ 11'
Analyte	Method	Date	2/8/17	2/8/17	4/26/17	4/26/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	< 0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	< 0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		< 0.050	< 0.050	< 0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		< 0.300	< 0.300	< 0.300	n/a
Chloride	SM4500CI-B		160	144	160	128
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a
DRO	TPH 8015M		121	<10.0	<10.0	n/a

		Sample	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 6'	SP3 @ 11'
Analyte	Method	Date	2/8/17	2/8/17	4/26/17	4/26/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		< 0.050	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		< 0.050	< 0.050	< 0.050	n/a
Total Xylenes	BTEX 8021B		0.816	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		0.816	< 0.300	< 0.300	n/a
Chloride	SM4500CI-B		1010	32	128	144
GRO	TPH 8015M		<100	<10.0	<10.0	n/a
DRO	TPH 8015M		3480	22	<10.0	n/a

		Sample	SP4 @ 1'	SP4 @ 6'	SP4 @ 11'
Analyte	Method	Date	4/26/17	4/26/17	4/26/17
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		< 0.050	< 0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	< 0.300	n/a
Chloride	SM4500CI-B		144	160	144
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a

		Sample	SP5 @ 1'	SP5 @ 6'	SP5 @ 11'
Analyte	Method	Date	4/26/17	4/26/17	4/26/17
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050	n/a
Toluene	BTEX 8021B		< 0.050	< 0.050	n/a
Ethylbenzene	BTEX 8021B		< 0.050	< 0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		< 0.300	< 0.300	n/a
Chloride	SM4500CI-B		128	128	128
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a

		Sample	EAST @ SURFACE
Analyte	Method	Date	2/8/17
			mg/Kg
Benzene	BTEX 8021B		< 0.050
Toluene	BTEX 8021B		< 0.050
Ethylbenzene	BTEX 8021B		< 0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		< 0.300
Chloride	SM4500CI-B		32
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	SOUTH @ SURFACE
Analyte	Method	Date	2/8/17
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		< 0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500CI-B		32
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		20.7

		Sample	NORTH @ SURFACE
Analyte	Method	Date	2/8/17
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		< 0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		< 0.300
Chloride	SM4500CI-B		144
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	WEST @ SURFACE
Analyte	Method	Date	2/8/17
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		< 0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		< 0.300
Chloride	SM4500CI-B		32
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0



February 22, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: NM DW STATE #02

Enclosed are the results of analyses for samples received by the laboratory on 02/15/17 10:40.

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/ga/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)

Celey D. Keene

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



BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 02/15/2017 Sampling Date: 02/08/2017

Reported: 02/22/2017 Sampling Type: Soil

Project Name: NM DW STATE #02 Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: COG

Sample ID: SP 1 @ SURFACE (H700384-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2017	ND	1.94	96.9	2.00	1.83	
Toluene*	<0.050	0.050	02/17/2017	ND	1.82	91.0	2.00	2.29	
Ethylbenzene*	<0.050	0.050	02/17/2017	ND	1.83	91.4	2.00	2.10	
Total Xylenes*	<0.150	0.150	02/17/2017	ND	5.21	86.9	6.00	2.30	
Total BTEX	<0.300	0.300	02/17/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 %	6 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	02/17/2017	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	02/16/2017	ND	193	96.5	200	7.02	
DRO >C10-C28	7030	100	02/16/2017	ND	203	102	200	6.69	
Surrogate: 1-Chlorooctane	89.5	% 35-147	,						
Surrogate: 1-Chlorooctadecane	159 9	6 28-171							

Surrogate: 1-Chlorooctadecane

Cardinal Laboratories *=Accredited Analyte

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Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 02/15/2017 Sampling Date: 02/08/2017

Reported: 02/22/2017 Sampling Type: Soil
Project Name: NM DW STATE #02 Sampling Condition: Cool

Project Name: NM DW STATE #02 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: COG

Sample ID: SP 1 @ 1' (H700384-02)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2017	ND	1.94	96.9	2.00	1.83	
Toluene*	<0.050	0.050	02/17/2017	ND	1.82	91.0	2.00	2.29	
Ethylbenzene*	<0.050	0.050	02/17/2017	ND	1.83	91.4	2.00	2.10	
Total Xylenes*	<0.150	0.150	02/17/2017	ND	5.21	86.9	6.00	2.30	
Total BTEX	<0.300	0.300	02/17/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/17/2017	ND	448	112	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/16/2017	ND	193	96.5	200	7.02	
DRO >C10-C28	179	10.0	02/16/2017	ND	203	102	200	6.69	
Surrogate: 1-Chlorooctane	89.6	% 35-147	7						
Surrogate: 1-Chlorooctadecane	96.5	% 28-171	•						

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Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 02/15/2017 Sampling Date: 02/08/2017

Reported: 02/22/2017 Sampling Type: Soil

Project Name: NM DW STATE #02 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: COG

Sample ID: SP 2 @ SURFACE (H700384-03)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2017	ND	1.94	96.9	2.00	1.83	
Toluene*	<0.050	0.050	02/17/2017	ND	1.82	91.0	2.00	2.29	
Ethylbenzene*	<0.050	0.050	02/17/2017	ND	1.83	91.4	2.00	2.10	
Total Xylenes*	<0.150	0.150	02/17/2017	ND	5.21	86.9	6.00	2.30	
Total BTEX	<0.300	0.300	02/17/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 73.6-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/17/2017	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/16/2017	ND	193	96.5	200	7.02	
DRO >C10-C28	121	10.0	02/16/2017	ND	203	102	200	6.69	
Surrogate: 1-Chlorooctane	83.9	% 35-147	7						
Surrogata: 1 Chloroctadacana	02.0	0/2 28 171	,						

Surrogate: 1-Chlorooctadecane 92.0 % 28-171

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Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 02/15/2017 Sampling Date: 02/08/2017

Reported: 02/22/2017 Sampling Type: Soil

Project Name: NM DW STATE #02 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: COG

Sample ID: SP 2 @ 1' (H700384-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2017	ND	1.94	96.9	2.00	1.83	
Toluene*	<0.050	0.050	02/17/2017	ND	1.82	91.0	2.00	2.29	
Ethylbenzene*	<0.050	0.050	02/17/2017	ND	1.83	91.4	2.00	2.10	
Total Xylenes*	<0.150	0.150	02/17/2017	ND	5.21	86.9	6.00	2.30	
Total BTEX	<0.300	0.300	02/17/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/17/2017	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/16/2017	ND	193	96.5	200	7.02	
DRO >C10-C28	<10.0	10.0	02/16/2017	ND	203	102	200	6.69	
Surrogate: 1-Chlorooctane	78.4 9	% 35-147	7						
Surrogate: 1-Chlorooctadecane	84.0 9	% 28-171							

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Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 02/15/2017 Sampling Date: 02/08/2017

Reported: 02/22/2017 Sampling Type: Soil

Project Name: NM DW STATE #02 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: COG

Sample ID: SP 3 @ SURFACE (H700384-05)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2017	ND	1.94	96.9	2.00	1.83	
Toluene*	<0.050	0.050	02/17/2017	ND	1.82	91.0	2.00	2.29	
Ethylbenzene*	<0.050	0.050	02/17/2017	ND	1.83	91.4	2.00	2.10	
Total Xylenes*	0.816	0.150	02/17/2017	ND	5.21	86.9	6.00	2.30	
Total BTEX	0.816	0.300	02/17/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	137 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	02/17/2017	ND	448	112	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	02/16/2017	ND	193	96.5	200	7.02	
DRO >C10-C28	3480	100	02/16/2017	ND	203	102	200	6.69	
Surrogate: 1-Chlorooctane	89.4	% 35-147	7						
Surrogate: 1-Chlorooctadecane	126	% 28-171	,						

Surrogate: 1-Chlorooctadecane 126 % 28-171

Cardinal Laboratories *=Accredited Analyte

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BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 02/15/2017 Sampling Date: 02/08/2017

Reported: 02/22/2017 Sampling Type: Soil

Project Name: NM DW STATE #02 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: COG

Sample ID: SP 3 @ 1' (H700384-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2017	ND	1.94	96.9	2.00	1.83	
Toluene*	<0.050	0.050	02/17/2017	ND	1.82	91.0	2.00	2.29	
Ethylbenzene*	<0.050	0.050	02/17/2017	ND	1.83	91.4	2.00	2.10	
Total Xylenes*	<0.150	0.150	02/17/2017	ND	5.21	86.9	6.00	2.30	
Total BTEX	<0.300	0.300	02/17/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.8	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/17/2017	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/16/2017	ND	193	96.5	200	7.02	
DRO >C10-C28	22.0	10.0	02/16/2017	ND	203	102	200	6.69	
Surrogate: 1-Chlorooctane	78.7 5	% 35-147	,						
G 1 CH 1	00.64	20.171							

88.6 % 28-171 Surrogate: 1-Chlorooctadecane

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BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

 Received:
 02/15/2017
 Sampling Date:
 02/08/2017

 Reported:
 02/22/2017
 Sampling Type:
 Soil

Project Name: NM DW STATE #02 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: COG

Sample ID: NORTH @ SURFACE (H700384-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2017	ND	1.94	96.9	2.00	1.83	
Toluene*	<0.050	0.050	02/17/2017	ND	1.82	91.0	2.00	2.29	
Ethylbenzene*	<0.050	0.050	02/17/2017	ND	1.83	91.4	2.00	2.10	
Total Xylenes*	<0.150	0.150	02/17/2017	ND	5.21	86.9	6.00	2.30	
Total BTEX	<0.300	0.300	02/17/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/17/2017	ND	448	112	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/16/2017	ND	193	96.5	200	7.02	
DRO >C10-C28	<10.0	10.0	02/16/2017	ND	203	102	200	6.69	
Surrogate: 1-Chlorooctane	80.4	% 35-147	7						
Surrogate: 1-Chlorooctadecane	85.4	% 28-171							

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Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 02/15/2017 Sampling Date: 02/08/2017

Reported: 02/22/2017 Sampling Type: Soil

Project Name: NM DW STATE #02 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: COG

Sample ID: EAST @ SURFACE (H700384-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2017	ND	1.94	96.9	2.00	1.83	
Toluene*	<0.050	0.050	02/17/2017	ND	1.82	91.0	2.00	2.29	
Ethylbenzene*	<0.050	0.050	02/17/2017	ND	1.83	91.4	2.00	2.10	
Total Xylenes*	<0.150	0.150	02/17/2017	ND	5.21	86.9	6.00	2.30	
Total BTEX	<0.300	0.300	02/17/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/17/2017	ND	448	112	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/16/2017	ND	193	96.5	200	7.02	
DRO >C10-C28	<10.0	10.0	02/16/2017	ND	203	102	200	6.69	
Surrogate: 1-Chlorooctane	67.8	% 35-147	,						

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Celey D. Keene

Surrogate: 1-Chlorooctadecane

77.8 %

28-171



BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 02/15/2017 Sampling Date: 02/08/2017

Reported: 02/22/2017 Sampling Type: Soil

Project Name: NM DW STATE #02 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: COG

Sample ID: SOUTH @ SURFACE (H700384-09)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2017	ND	1.94	96.9	2.00	1.83	
Toluene*	<0.050	0.050	02/17/2017	ND	1.82	91.0	2.00	2.29	
Ethylbenzene*	<0.050	0.050	02/17/2017	ND	1.83	91.4	2.00	2.10	
Total Xylenes*	<0.150	0.150	02/17/2017	ND	5.21	86.9	6.00	2.30	
Total BTEX	<0.300	0.300	02/17/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8	% 73.6-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/17/2017	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/16/2017	ND	193	96.5	200	7.02	

ND

203

102

200

6.69

02/16/2017

Surrogate: 1-Chlorooctane 76.2 % 35-147
Surrogate: 1-Chlorooctadecane 86.8 % 28-171

20.7

10.0

DRO >C10-C28

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Fax To: (575) 397-0397

Received: 02/15/2017 Sampling Date: 02/08/2017

Reported: 02/22/2017 Sampling Type: Soil

Project Name: NM DW STATE #02 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: COG

Sample ID: WEST @ SURFACE (H700384-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/17/2017	ND	1.94	96.9	2.00	0.421	
Toluene*	<0.050	0.050	02/17/2017	ND	1.81	90.4	2.00	0.542	
Ethylbenzene*	<0.050	0.050	02/17/2017	ND	1.81	90.7	2.00	1.02	
Total Xylenes*	<0.150	0.150	02/17/2017	ND	5.19	86.4	6.00	1.12	
Total BTEX	<0.300	0.300	02/17/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.7	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/17/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/16/2017	ND	193	96.5	200	7.02	
DRO >C10-C28	<10.0	10.0	02/16/2017	ND	203	102	200	6.69	
Surrogate: 1-Chlorooctane	80.6	% 35-147	,						

Surrogate: 1-Chlorooctadecane 90.5 % 28-171

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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

ecovery.

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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Celeg D. Kreene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(500) 333-2320 1 77 (300) 300 2110		
Name: DDC International Inc	BILL TO	ANALYSIS REQUEST
party manner. DDC Illicinational, mic.		
ct Manager: Cliff Brunson	P.O. #:	
	Company	
ess: P.O. Box 805	Company.	

(505) 393-2326 FAX (505) 353-2476		
company Name: BBC International, Inc.	BILL TO	ANALISIS NEGOCIO
roject Manager: Cliff Brunson	P.O. #:	
Address: P.O. Box 805	Company:	
State: N	Attn:	
hone #: 575-397-6388 Fax #: 575-397-0397	Address:	
Project #: Project Owner: (. (. (. (. (. (. (. (. (. (City:	
project Name:	State: Zip:	
Project Location: NM OW STATE # 02	Phone #:	
Sampler Name: PRIFR FERNANDEZ	Fax#:	
	PRESERV. SAMPLING	
C)OMP.	PH TE	
	DGE ER: D/BASE: COOL IER:	
# CO GRO WAS SOIL	OTH ACI ICE OTH DATE	
1) bill of lather a	7 2 3 7 10 0	
1 1 2 100 2 100 2	7 8 17 1035 1	
1 5 min C 1	V 2817 1048 V VV	
2 SO 3 @ JUNPACE 6 11 1		
O COLONIO III	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
1 73000 S 1300	1 2 8 17 240 1	
SOUTH SOUTHER IN 195 6	1 2 3 0 250 V V V	
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service. In no event shall Cardinal be liable for incidental or consequental damages, including will recurrence in no event shall Cardinal be liable for incidental or consequential damages, including will require so whether such claim is based upon any of the above stated reasons or otherwise. Phone Resul	t: 🗆 Yes 🗆 No	Add'l Phone #:
Relinquished By: POCIN AIRMANCE TIME: UP 1 Received by: Time: UP 1 Received by:	□ Yes □ No	Add'I Fax #:
Refinquished By: Time:		
Samp	dition CHECKED BY:	
Sampler - UPS - Bus - Other: 2,18 Cool Infact No I No	Yes (Manages)	



May 15, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: NM DW STATE #002

Enclosed are the results of analyses for samples received by the laboratory on 05/05/17 10:40.

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/ga/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)

Celey D. Keene

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



BBC International, Inc. Cliff Brunson P.O. Box 805

Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 05/05/2017 Sampling Date: 04/26/2017

Reported: 05/15/2017 Sampling Type: Soil

Project Name: NM DW STATE #002 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: COG

Sample ID: 1 @ 6' (H701215-01)

BTEX 8021B	mg/	kg	Analyze	ed By: BF					I-02
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2017	ND	2.08	104	2.00	1.17	
Toluene*	<0.050	0.050	05/12/2017	ND	2.10	105	2.00	1.84	
Ethylbenzene*	<0.050	0.050	05/12/2017	ND	2.12	106	2.00	2.63	
Total Xylenes*	<0.150	0.150	05/12/2017	ND	6.23	104	6.00	1.86	
Total BTEX	<0.300	0.300	05/12/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	126 %	% 72-148	}						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/09/2017	ND	400	100	400	3.92	
TPH 8015M	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/11/2017	ND	193	96.6	200	2.84	
DRO >C10-C28	<10.0	10.0	05/11/2017	ND	196	97.8	200	1.26	
Surrogate: 1-Chlorooctane	69.3	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	73.5 9	% 34.7-15	7						

Sample ID: 1 @ 11' (H701215-02)

Sample ID. I @ II (1170	1115 01)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/09/2017	ND	400	100	400	3.92	

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BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 05/05/2017 Sampling Date: 04/26/2017

Reported: 05/15/2017 Sampling Type: Soil

Project Name: NM DW STATE #002 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: COG

Sample ID: 2 @ 6' (H701215-03)

BTEX 8021B	mg/	kg	Analyze	d By: BF					I-02
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2017	ND	2.08	104	2.00	1.17	
Toluene*	<0.050	0.050	05/12/2017	ND	2.10	105	2.00	1.84	
Ethylbenzene*	< 0.050	0.050	05/12/2017	ND	2.12	106	2.00	2.63	
Total Xylenes*	<0.150	0.150	05/12/2017	ND	6.23	104	6.00	1.86	
Total BTEX	<0.300	0.300	05/12/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	125 %	6 72-148	}						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/09/2017	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/11/2017	ND	193	96.6	200	2.84	
DRO >C10-C28	<10.0	10.0	05/11/2017	ND	196	97.8	200	1.26	
Surrogate: 1-Chlorooctane	66.1 %	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	63.6 9	% 34.7-15	7						

Sample ID: 2 @ 11' (H701215-04)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/09/2017	ND	400	100	400	3.92	

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BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 05/05/2017 Sampling Date: 04/26/2017

Reported: 05/15/2017 Sampling Type: Soil

Project Name: NM DW STATE #002 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: COG

Sample ID: 3 @ 6' (H701215-05)

BTEX 8021B	mg/	'kg	Analyze	d By: BF					I-02
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2017	ND	2.08	104	2.00	1.17	
Toluene*	<0.050	0.050	05/12/2017	ND	2.10	105	2.00	1.84	
Ethylbenzene*	<0.050	0.050	05/12/2017	ND	2.12	106	2.00	2.63	
Total Xylenes*	<0.150	0.150	05/12/2017	ND	6.23	104	6.00	1.86	
Total BTEX	<0.300	0.300	05/12/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	125 9	% 72-148	}						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/09/2017	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/11/2017	ND	193	96.6	200	2.84	
DRO >C10-C28	<10.0	10.0	05/11/2017	ND	196	97.8	200	1.26	
Surrogate: 1-Chlorooctane	71.3	% 28.3-16	4						
G 1 CH 1	71.0	0/ 2/7/15	7						

71.8 % 34.7-157 Surrogate: 1-Chlorooctadecane

Sample ID: 3@ 11' (H701215-06)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/09/2017	ND	416	104	400	0.00	

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Celey D. Keene



BBC International, Inc. Cliff Brunson

P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 05/05/2017 Sampling Date: 04/26/2017

Reported: 05/15/2017 Sampling Type: Soil

Project Name: NM DW STATE #002 Sampling Condition: Cool & Intact Project Number: Sample Received By: Tamara Oldaker NONE GIVEN

Project Location: COG

Sample ID: 4 @ 1' (H701215-07)

BTEX 8021B	mg/	kg	Analyze	d By: BF					I-02
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2017	ND	2.08	104	2.00	1.17	
Toluene*	<0.050	0.050	05/12/2017	ND	2.10	105	2.00	1.84	
Ethylbenzene*	<0.050	0.050	05/12/2017	ND	2.12	106	2.00	2.63	
Total Xylenes*	<0.150	0.150	05/12/2017	ND	6.23	104	6.00	1.86	
Total BTEX	<0.300	0.300	05/12/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	123 %	6 72-148	}						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/09/2017	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/11/2017	ND	193	96.6	200	2.84	
DRO >C10-C28	<10.0	10.0	05/11/2017	ND	196	97.8	200	1.26	
Surrogate: 1-Chlorooctane	69.4 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	62.89	% 34 7-15	7						

Surrogate: 1-Chlorooctadecane 62.8 % 34.7-157

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Celeg D. Kreene



BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 05/05/2017 Sampling Date: 04/26/2017

Reported: 05/15/2017 Sampling Type: Soil

Project Name: NM DW STATE #002 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: COG

Sample ID: 4 @ 6' (H701215-08)

BTEX 8021B	mg/	kg	Analyze	d By: BF					I-02
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2017	ND	2.08	104	2.00	1.17	
Toluene*	< 0.050	0.050	05/12/2017	ND	2.10	105	2.00	1.84	
Ethylbenzene*	< 0.050	0.050	05/12/2017	ND	2.12	106	2.00	2.63	
Total Xylenes*	<0.150	0.150	05/12/2017	ND	6.23	104	6.00	1.86	
Total BTEX	<0.300	0.300	05/12/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	127 %	% 72-148	}						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/09/2017	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/11/2017	ND	193	96.6	200	2.84	
DRO >C10-C28	<10.0	10.0	05/11/2017	ND	196	97.8	200	1.26	
Surrogate: 1-Chlorooctane	80.5 9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	76.3 9	% 34.7-15	7						

Sample ID: 4 @ 11' (H701215-09)

	,								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/09/2017	ND	416	104	400	0.00	

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BBC International, Inc. Cliff Brunson

P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 05/05/2017 Sampling Date: 04/26/2017

Reported: 05/15/2017 Sampling Type: Soil

Project Name: NM DW STATE #002 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: COG

Sample ID: 5 @ 1' (H701215-10)

BTEX 8021B	mg/	kg	Analyze	d By: BF					I-02
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2017	ND	2.08	104	2.00	1.17	
Toluene*	<0.050	0.050	05/12/2017	ND	2.10	105	2.00	1.84	
Ethylbenzene*	< 0.050	0.050	05/12/2017	ND	2.12	106	2.00	2.63	
Total Xylenes*	<0.150	0.150	05/12/2017	ND	6.23	104	6.00	1.86	
Total BTEX	<0.300	0.300	05/12/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	125 %	6 72-148	}						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/09/2017	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/11/2017	ND	193	96.6	200	2.84	
DRO >C10-C28	<10.0	10.0	05/11/2017	ND	196	97.8	200	1.26	
Surrogate: 1-Chlorooctane	70.9 9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	74.7 9	% 34.7-15	7						

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BBC International, Inc. Cliff Brunson

P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 05/05/2017 Sampling Date: 04/26/2017

Reported: 05/15/2017 Sampling Type: Soil

Project Name: NM DW STATE #002 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Tamara Oldaker

Project Location: COG

Sample ID: 5 @ 6' (H701215-11)

BTEX 8021B	mg/	kg	Analyze	d By: BF					I-02
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/12/2017	ND	2.08	104	2.00	1.17	
Toluene*	<0.050	0.050	05/12/2017	ND	2.10	105	2.00	1.84	
Ethylbenzene*	<0.050	0.050	05/12/2017	ND	2.12	106	2.00	2.63	
Total Xylenes*	<0.150	0.150	05/12/2017	ND	6.23	104	6.00	1.86	
Total BTEX	<0.300	0.300	05/12/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	127 %	6 72-148	}						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/09/2017	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/11/2017	ND	193	96.6	200	2.84	
DRO >C10-C28	<10.0	10.0	05/11/2017	ND	196	97.8	200	1.26	
Surrogate: 1-Chlorooctane	78.5 9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	69 3 9	% 34 7-15	7						

Surrogate: 1-Chlorooctadecane 69.3 % 34.7-157

Sample ID: 5@ 11' (H701215-12)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/09/2017	ND	416	104	400	0.00	

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Notes and Definitions

I-02 This result was analyzed outside of the EPA recommended holding time.

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.

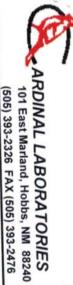
*** Insufficient time to reach temperature.

- 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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Mailaile, 10000, 203 2476			
0	BILL TO	ANALYSIS REQUES	51
roject Manager: Cliff Brunson	P.O. #:		
30x 805	Company:	00	
State: N	Zip: 88241 Attn:		
5-397-6388 Fax #:	575-397-0397 Address:		
	(OC city:		
NM NM S	State: Zi	Zip:	
1/11	Phone #:		
Project Location:	n :		
Sampler Name: Price Brunson	Fax		
3	MATRIX PRESERV.	SAMPLING	
Lab I.D. Sample I.D.	CONTAINERS ROUNDWATER ASTEWATER DIL LUDGE THER: CID/BASE: DE / COOL	TIME THE BIE	
HTOLAIS	GI W SC O SI O A	7	
30.00	600	12/5	
37.66	617	9817 118	
4 2311		2000	
5 306		7 7 300	
1000		18/1930////	
184 0		12617 950	
Meh &		12617 1010	
D 5 6 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1	any claim arising whether based in contract or tort, shall be limited to the	1 Post 11 Post 10 Post	
analyses. All claims including those for negligetice and any ones vacuous missions, business interruptions, loss of use, or loss of profits incurred by client, its substantian service. In no event shall Cardinal be liable for incidental or consequented analyses, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its substantian services have a linear consequented by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	g without limitation, business interruptions, loss of use, or loss of prof Cardinal regardless of whether such dairn is based upon any of the		
Relipquished By: Date: 4/24/7	Received By:	Yes No	
N	-		
Relinquished By: 5-5-17	RECEIVED BY:		
Delivered By: (Circle One)	Sample Condition C Cool Intact	ED BY:	
	Yes Tyes		

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(505) 393-2326 FAX (505) 393-24/5			ANALYSIS REQUEST	_
ompany Name: BBC International, Inc.		BILL 10		
roject Manager: Cliff Brunson		P.O.#:		
		Company: COC		
State:	7	Attn:		
-397-6388 Fax #:	575-397-0397	Address:		_
roject #: Project Owner: (OC		City:		
ame: ///// OW She	002	State: Zip:		
roject Location:		Phone #:		
ampler Name: Prize Brunson		Fax #:		
Lab I.D. Sample I.D.	OR (C)OMP. FAINERS NDWATER EWATER AND	BASE:		
Tarion I	COL			
1 6 3 6 7				
20000	0	1 42/17 1130	/	
1 0 0 1				
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in certifact or tort, shall be limited to the amount paid by the client for the publicable natives. At claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable	any claim arising whether based in contrac e deemed waived unless made in writing an	ct or tort, shall be limited to the amount paid by the client for the not received by Cardinal within 30 days after completion of the and a more incurred by client, its subsidiante	e spikicable	

Cool Intact
Pyes Tyes
No No

CHECKED BY:

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

Relinquished By

Date:

Received By:

Phone Result: Fax Result: REMARKS:

□ Yes

□ No

Add'l Phone #: Add'l Fax #:

Received By:

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

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

State of New Mexico **Energy Minerals and Natural Resources**

Form C-141

Revised August 8, 2011

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

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

Attached

Release Notification and Corrective Action													
						OPERATOR			☐ Initial Report ☐ Final Report				
						Contact: Robert McNeill							
						Telephone No. 432-683-7443							
Facility Name: New Mexico DW State #002						Facility Type: Flowline							
Surface Owner: State Mineral Owner:						API No. 30-025-32467						7	
LOCATION OF RELEASE Unit Letter Section Township Panga Feet from the North/South Line Feet from the Fast/West Line County													
Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County E 06 22S 35E 1980 North 660 West Lea											*		
Latitude 32.4227219 Longitude 103.4127121													
NATURE OF RELEASE													
Type of Release:						Volume of Release: Vo			Volume R	Volume Recovered:			
Oil and Produced Water							s Oil & 6 bbls PV						
Source of Release: Flowline						4	lour of Occurrence oer 29, 2016 7:30	· · · · · · · · · · · · · · · · · · ·					
Was Immediate Notice Given?						If YES, To							
☐ Yes ☒ No ☒ Not Required													
By Whom?						Date and H		1 117 4					
Was a Watercourse Reached? ☐ Yes ☑ No						If YES, VC	lume Impacting t	ne wate	ercourse.				
If a Watercourse was Impacted, Describe Fully.*													
is a manufacture man simplestate, westerve a tity.													
Describe Cause of Problem and Remedial Action Taken.*													
There was a l	There was a leak at the steel to poly transition. The steel to poly transition section was replaced.												
Describe Area Affected and Cleanup Action Taken.*													
The release occurred on the well pad. A vacuum truck was dispatched to remove all freestanding fluids. Concho will have the spill area sampled to delineate 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: Rebleck Haskell						OIL CONSERVATION DIVISION							
Printed Name: Rebecca Haskell						Approved by Environmental Specialist:							
SX Mr						Approval Da	roval Date: Expiration Date:						

Conditions of Approval:

12/30/16

rhaskell@concho.com

432-683-7443

Phone:

E-mail Address:

^{*} Attach Additional Sheets If Necessary