

# Closure Report

## Site Description

Site Name:	Trapper 13 Federal Com #002
Company:	COG Operating LLC
Legal Description:	U/L E, Section 13, T19S, R31E
County:	Eddy County, NM
GPS Coordinates:	N 32.6659851° W 103.8169861°

## Release Data

Date of Release:	08/30/2015
Type of Release:	Oil and produced water
Source of Release:	Tank overflow
Volume of Release:	30 bbls oil, 20 bbls produced water
Volume Recovered:	10 bbls oil, 10 bbls produced water

## Remediation Specifications

Remediation Parameters:	Excavate the spill area covering SP1, SP3, SP4, & SP5 to a depth of 2ft (as any deeper would compromise the integrity/safety of the tanks). Excavate the area around SP2 to 1ft. Backdrag the area around SP6. Backfill excavations with clean soil. *Deferral due to it being an operating battery*	
Remediation Activities:	12/09/2015 to 12/24/2015	
Plan Sent to OCD:	12/02/2015	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	12/09/2015	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	12/01/2015	Email from Cliff Brunson to Shelly Tucker
BLM Approval of Plan:	12/02/2015	Email from Shelly Tucker to Cliff Brunson

## Supporting Documentation

Initial C-141	Signed 09/13/2015
Final C-141	Signed 01/11/2016
Site Diagram	November 2015
Groundwater Plot	350'
TOPO Maps	November 2015
Lab Summary	11/11/2015-11/12/2015
Lab Analysis	11/11/2015-11/12/2015
Correspondence	Request and approval of remediation plan via email

## Request for Closure

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

Cliff Brunson, President of BBC International Inc.

01/14/2016

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

State of New Mexico  
Energy Minerals and Natural Resources

Form C-141  
Revised August 8, 2011

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

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

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company: COG Operating LLC	Contact: Robert McNeill
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No. 432-230-0077
Facility Name: TRAPPER 13 FEDERAL COM #002	Facility Type: Battery
Surface Owner: Federal	Mineral Owner:
API No. 30-015-31568	

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	13	19S	31E	660'	North	840'	East	Eddy

Latitude 32.6659851 Longitude -103.8169861

**NATURE OF RELEASE**

Type of Release: Oil & Produced Water	Volume of Release: 30 bbls Oil ; 20 bbls PW	Volume Recovered: 10 bbls Oil ; 10 bbls PW
Source of Release: Tank Overflow	Date and Hour of Occurrence: 8-30-2015 11:00 am	Date and Hour of Discovery: 8-30-2015 11:00 am
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 / Jim Amos – BLM	
By Whom? Amanda Trujillo	Date and Hour: Mon 8/31/2015 6:23 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

This release was caused by a tank overflow. Vacuum trucks were dispatched to recover all standing fluid.

Describe Area Affected and Cleanup Action Taken.\*

This release occurred within the earthen containment. Concho will have the spill site sampled to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation work.

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

Signature: 	<b><u>OIL CONSERVATION DIVISION</u></b>	
Printed Name: Amanda Trujillo	Approved by Environmental Specialist:	
Title: Senior Environmental Coordinator	Approval Date:	Expiration Date:
E-mail Address: <a href="mailto:atrujillo@concho.com">atrujillo@concho.com</a>	Conditions of Approval:	
Date: September 13, 2015 Phone: 575-748-6940	Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary

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

State of New Mexico  
Energy Minerals and Natural Resources

Form C-141  
Revised August 8, 2011

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

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

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company: COG Operating	Contact: Robert McNeill
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No. 432-230-0077
Facility Name: Trapper 13 Federal Com #2	Facility Type: Battery

Surface Owner: Federal	Mineral Owner:	API No. 30-015-31568
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**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	13	19S	31E	660	North	840	East	Eddy County, NM

Latitude N 32.66598° Longitude W 103.81698°

**NATURE OF RELEASE**

Type of Release: Oil and produced water	Volume of Release: 30 bbls oil, 20 bbls produced water	Volume Recovered: 10 bbls oil, 10 bbls produced water
Source of Release: Tank overflow	Date and Hour of Occurrence 08/30/2015 @ 11:00 am	Date and Hour of Discovery 08/30/2015 @ 11:00 am
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, Jim Amos-BLM	
By Whom? Amanda Trujillo	Date and Hour: 08/31/2015 @ 6:23 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*  
This release was caused by a tank overflow. Vacuum trucks were dispatched to recover all standing fluid.

Describe Area Affected and Cleanup Action Taken.\*  
This release occurred within the earthen containment. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 12/09/2015 and approved by Shelly Tucker of the BLM via email on 12/02/2015.

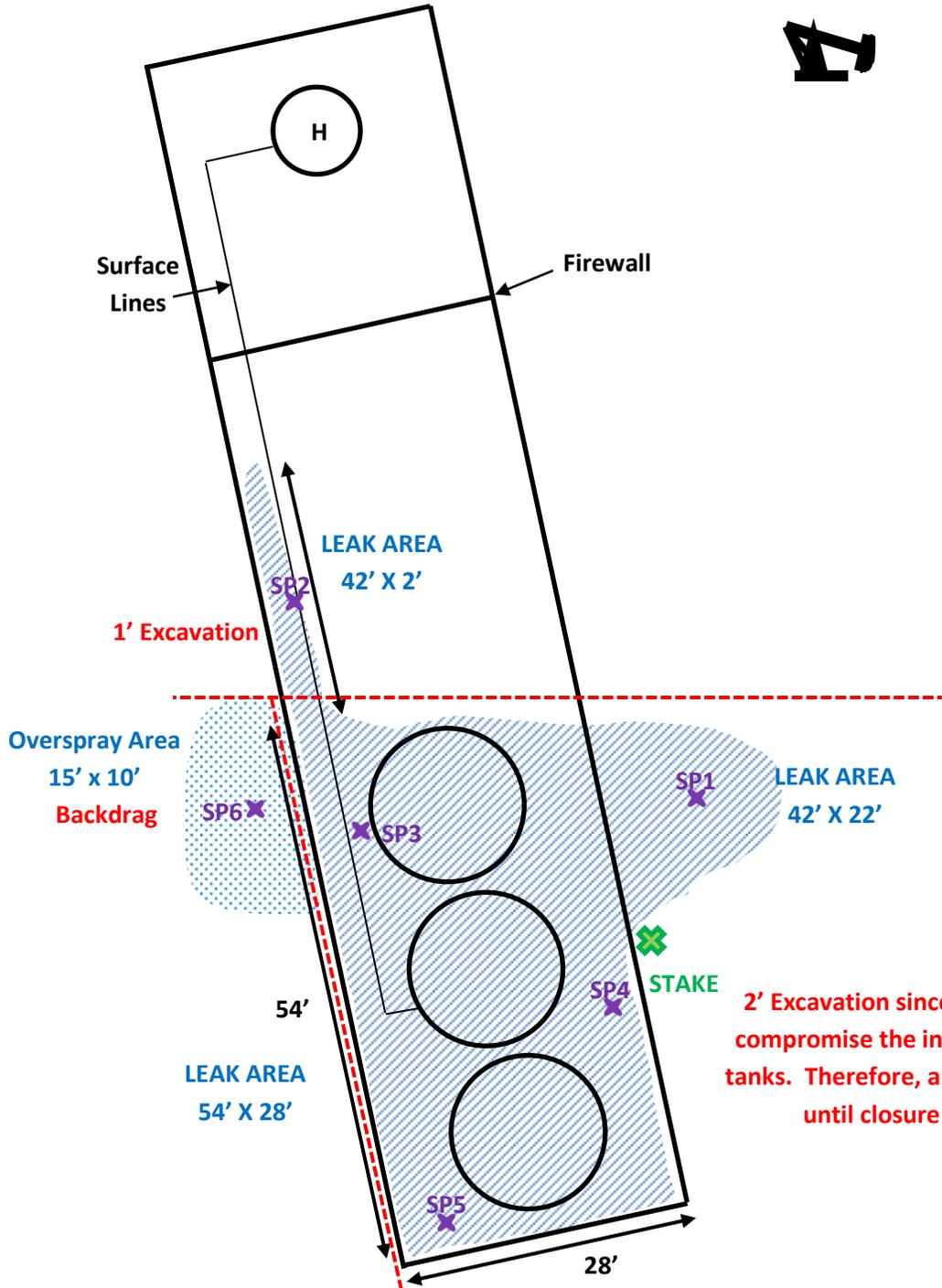
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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: 	<b>OIL CONSERVATION DIVISION</b>		
Printed Name: Amanda Trujillo	Approved by Environmental Specialist:		
Title: Environmental Coordinator	Approval Date:	Expiration Date:	
E-mail Address: atrujillo@concho.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 1/11/16	Phone: 575-748-6940		

\* Attach Additional Sheets If Necessary



Concho  
Trapper 13 Fed Com #2



2' Excavation since any deeper would compromise the integrity/safety of the tanks. Therefore, a deferral is requested until closure of the facility.

U/L A, Section 13, T19S, R31E

Eddy County, NM

N 32.6659851° W 103.8169861°

API# 30-015-31568

BBC International, Inc.

Concho

Trapper 13 Fed Com #2

Date: 11/6/15

DRWG by: J.Gilkey

NOT TO SCALE

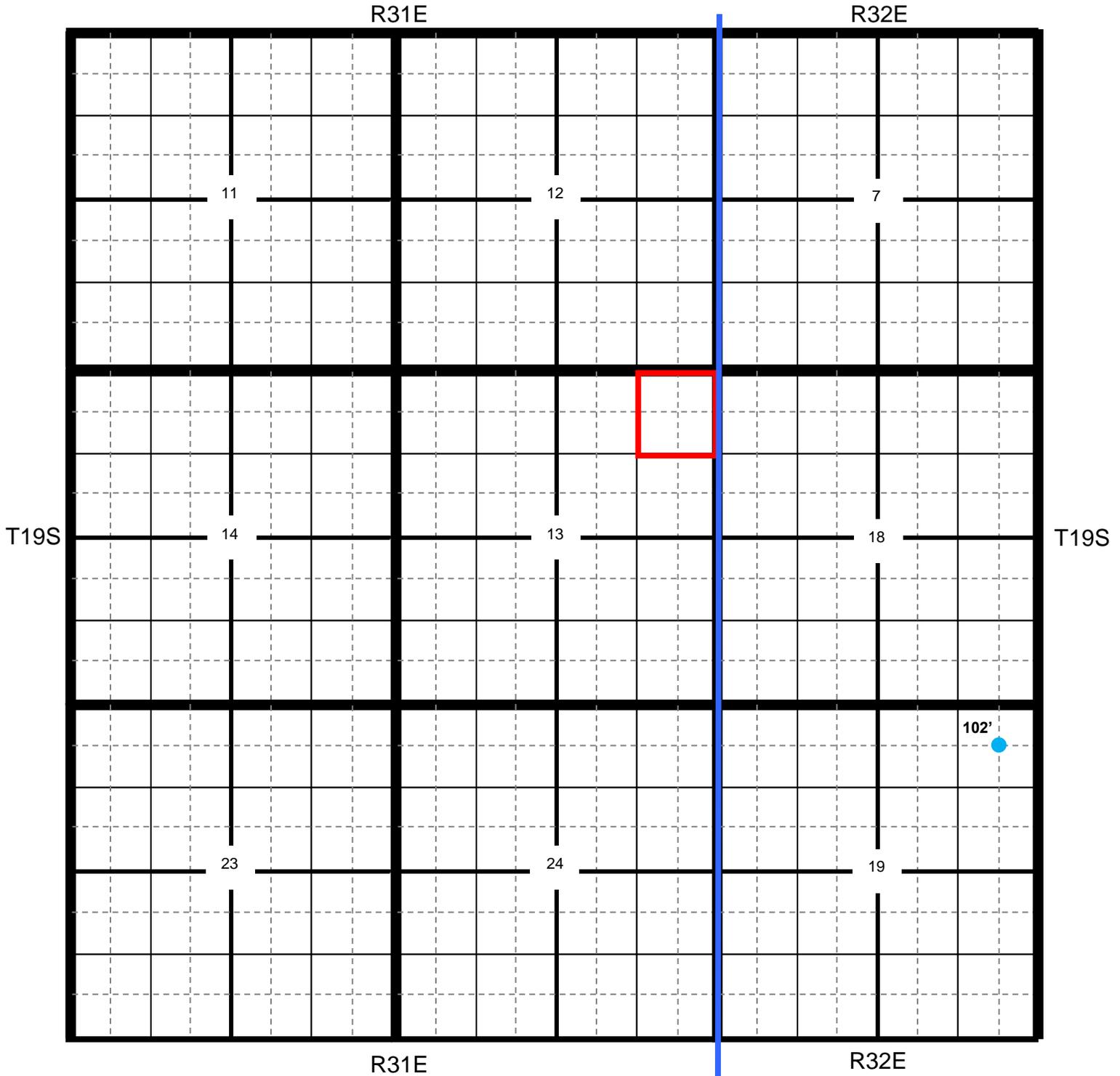
File: Concho 2015

# Groundwater Plot

## Concho Trapper 13 Fed Com #2

County: Lea      Unit Letter: A      Section: 13      Township: 19S      Range: 31E

Trend Map      350'



## Concho Trapper 13 Federal Com #2

**County** Lea      **Unit Letter** A      **Section** 13      **Township** 19S      **Range** 31E

Trend Map 350'

1

2

NW/NW <b style="color: red; font-size: 1.2em;">None found</b>	NE/NW	NW/NE	NE/NE
Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SW/NW	SE/NW	SW/NE	SE/NE
Unit Letter E	Unit Letter F	Unit Letter G	Unit Letter H
NW/SW	NE/SW	NW/SE	NE/SE
Unit Letter L	Unit Letter K	Unit Letter J	Unit Letter I
SW/SW	SE/SW	SW/SE	SE/SE
Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P

3

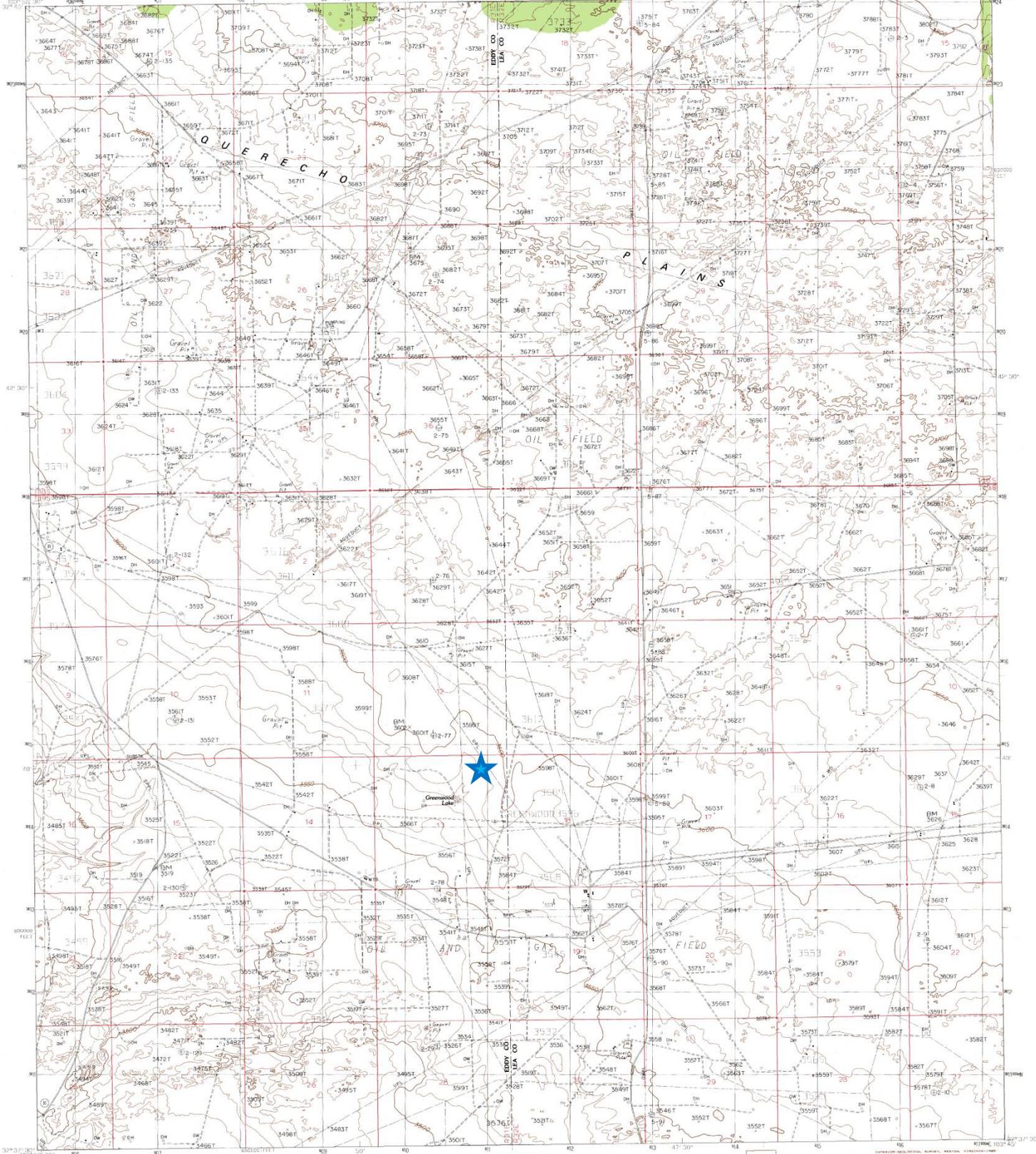
4

# Concho

## Trapper 13 Federal #2

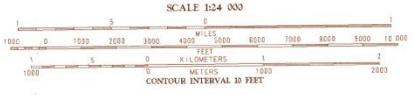
GREENWOOD LAKE QUADRANGLE  
NEW MEXICO  
75 MINUTE SERIES (TOPOGRAPHIC)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY



PRODUCED BY THE UNITED STATES GEOLOGICAL SURVEY  
CONTROL BY: USGS PHOTOGRAPHIC CENTER, 1000 N. 10TH ST., FORT COLLINS, CO 80526  
FIELD CHECKED: 1989 MAP EDITED: 1989  
PROJECTION: TRANSVERSE MERCATOR  
GRID: ADAMPTER UNIVERSAL TRANSVERSE MERCATOR ZONE 18  
DATUM: NAD 83  
UNIT: METERS  
SCALE: 1:24,000  
VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988  
HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983  
To place on the predicted North American Datum of 1983, move the projection lines as shown by dashed corner ticks (O means south and 40 means east).  
There may be private inholdings within the boundary of any Federal and State Reservations shown on this map.  
All marginal data and lettering generated and positioned by automated type placement procedure.

PROVISIONAL MAP  
Produced from original  
manuscript drawings. Infor-  
mation shown as of date of  
field check. 3



QUADRANGLE LOCATION

1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8

ADJOINING 7.5 QUADRANGLE NAMES

ROAD LEGEND  
Improved Road .....  
Unimproved Road .....  
Trail .....  
Interstate Route U.S. Route State Route

GREENWOOD LAKE, NEW MEXICO  
PROVISIONAL EDITION 1985  
3304377-024

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225  
OR RESTON, VIRGINIA 22092



**Laboratory Analytical Results Summary  
Trapper 13 Fed Com #2**

Analyte	Method	Sample Date	SP1 @ 1'	SP1 @ 3'	SP1 @ 5'	SP1 @ 6'	SP1 @ 7'
			11/11/15	11/11/15	11/12/15	11/12/15	11/12/15
			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		1330	2800	3440	640	<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

Analyte	Method	Sample Date	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'	SP5 @ 4'	SP5 @ 5'
			11/11/15	11/11/15	11/11/15	11/12/15	11/12/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.500	<0.050	<0.050	<0.500	<0.050
Toluene	BTEX 8021B		7.01	<0.050	<0.050	1.27	<0.050
Ethylbenzene	BTEX 8021B		11.7	<0.050	<0.050	3.36	<0.050
Total Xylenes	BTEX 8021B		45.7	<0.150	0.151	24.3	<0.150
Total BTEX	BTEX 8021B		64.4	<0.300	<0.300	28.9	<0.300
Chloride	SM4500Cl-B		336	144	912	112	448
GRO	TPH 8015M		926	<10.0	<10.0	1100	<10.0
DRO	TPH 8015M		4830	10.9	429	6890	69.8

Analyte	Method	Sample Date	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'
			11/11/15	11/11/15	11/11/15	11/12/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<1.00	<1.00	<0.050	<0.050
Toluene	BTEX 8021B		12.5	<1.00	0.133	<0.050
Ethylbenzene	BTEX 8021B		18.1	2.43	<0.050	<0.050
Total Xylenes	BTEX 8021B		74.5	10.8	1.39	<0.150
Total BTEX	BTEX 8021B		105	13.2	1.52	<0.300
Chloride	SM4500Cl-B		528	752	656	256
GRO	TPH 8015M		1420	1740	<100	<10.0
DRO	TPH 8015M		6960	1030	933	<10.0

Analyte	Method	Sample Date	SP6 @ SURFACE	SP6 @ 1'
			11/12/15	11/12/15
			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		<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		946	<10.0

Analyte	Method	Sample Date	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'
			11/11/15	11/11/15	11/11/15	11/12/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<2.00	<1.00	<1.00	<0.050
Toluene	BTEX 8021B		16.9	5.81	5.73	<0.050
Ethylbenzene	BTEX 8021B		22.1	9.68	8.16	<0.050
Total Xylenes	BTEX 8021B		88.5	55.3	44.9	<0.150
Total BTEX	BTEX 8021B		128	70.8	58.8	<0.300
Chloride	SM4500Cl-B		80	80	96	128
GRO	TPH 8015M		3260	1770	1480	<10.0
DRO	TPH 8015M		14900	10200	7370	28.8

Analyte	Method	Sample Date	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 5'
			11/11/15	11/11/15	11/11/15	11/12/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<1.00	<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	0.202	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		208	224	832	80
GRO	TPH 8015M		<10.0	<10.0	13.3	<10.0
DRO	TPH 8015M		20.5	<10.0	628	<10.0



November 20, 2015

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: TRAPPER 13 FED COM #2

Enclosed are the results of analyses for samples received by the laboratory on 11/17/15 9:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://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 style.

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:	11/17/2015	Sampling Date:	11/11/2015
Reported:	11/20/2015	Sampling Type:	Soil
Project Name:	TRAPPER 13 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR		

**Sample ID: SP1 @ 1 (H503031-01)**

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	11/19/2015	ND	1.87	93.7	2.00	3.41	
Toluene*	<0.050	0.050	11/19/2015	ND	2.12	106	2.00	5.06	
Ethylbenzene*	<0.050	0.050	11/19/2015	ND	2.08	104	2.00	7.30	
Total Xylenes*	<0.150	0.150	11/19/2015	ND	6.20	103	6.00	7.21	
Total BTEX	<0.300	0.300	11/19/2015	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1330</b>	16.0	11/18/2015	ND	416	104	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	11/18/2015	ND	200	100	200	3.13	
DRO >C10-C28	<10.0	10.0	11/18/2015	ND	199	99.6	200	3.15	

*Surrogate: 1-Chlorooctane 91.2 % 35-147*
*Surrogate: 1-Chlorooctadecane 97.7 % 28-171*

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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:	11/17/2015	Sampling Date:	11/11/2015
Reported:	11/20/2015	Sampling Type:	Soil
Project Name:	TRAPPER 13 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR		

**Sample ID: SP1 @ 3 (H503031-02)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/19/2015	ND	1.87	93.7	2.00	3.41		
Toluene*	<0.050	0.050	11/19/2015	ND	2.12	106	2.00	5.06		
Ethylbenzene*	<0.050	0.050	11/19/2015	ND	2.08	104	2.00	7.30		
Total Xylenes*	<0.150	0.150	11/19/2015	ND	6.20	103	6.00	7.21		
Total BTEX	<0.300	0.300	11/19/2015	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>2800</b>	16.0	11/18/2015	ND	416	104	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	11/18/2015	ND	200	100	200	3.13		
DRO >C10-C28	<10.0	10.0	11/18/2015	ND	199	99.6	200	3.15		

*Surrogate: 1-Chlorooctane 78.6 % 35-147*
*Surrogate: 1-Chlorooctadecane 84.6 % 28-171*

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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:	11/17/2015	Sampling Date:	11/12/2015
Reported:	11/20/2015	Sampling Type:	Soil
Project Name:	TRAPPER 13 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR		

**Sample ID: SP1 @ 5 (H503031-03)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/19/2015	ND	1.87	93.7	2.00	3.41		
Toluene*	<0.050	0.050	11/19/2015	ND	2.12	106	2.00	5.06		
Ethylbenzene*	<0.050	0.050	11/19/2015	ND	2.08	104	2.00	7.30		
Total Xylenes*	<0.150	0.150	11/19/2015	ND	6.20	103	6.00	7.21		
Total BTEX	<0.300	0.300	11/19/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3440	16.0	11/18/2015	ND	416	104	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	11/18/2015	ND	200	100	200	3.13		
DRO >C10-C28	<10.0	10.0	11/18/2015	ND	199	99.6	200	3.15		

Surrogate: 1-Chlorooctane 76.6 % 35-147

Surrogate: 1-Chlorooctadecane 80.9 % 28-171

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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:	11/17/2015	Sampling Date:	11/12/2015
Reported:	11/20/2015	Sampling Type:	Soil
Project Name:	TRAPPER 13 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR		

**Sample ID: SP1 @ 6 (H503031-04)**

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	11/19/2015	ND	1.87	93.7	2.00	3.41		
Toluene*	<0.050	0.050	11/19/2015	ND	2.12	106	2.00	5.06		
Ethylbenzene*	<0.050	0.050	11/19/2015	ND	2.08	104	2.00	7.30		
Total Xylenes*	<0.150	0.150	11/19/2015	ND	6.20	103	6.00	7.21		
Total BTEX	<0.300	0.300	11/19/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>640</b>	16.0	11/18/2015	ND	416	104	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	11/18/2015	ND	200	100	200	3.13		
DRO >C10-C28	<10.0	10.0	11/18/2015	ND	199	99.6	200	3.15		

Surrogate: 1-Chlorooctane 82.1 % 35-147

Surrogate: 1-Chlorooctadecane 85.8 % 28-171

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**Analytical Results For:**

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

Received:	11/17/2015	Sampling Date:	11/12/2015
Reported:	11/20/2015	Sampling Type:	Soil
Project Name:	TRAPPER 13 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR		

**Sample ID: SP1 @ 7 (H503031-05)**

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	11/19/2015	ND	1.87	93.7	2.00	3.41		
Toluene*	<0.050	0.050	11/19/2015	ND	2.12	106	2.00	5.06		
Ethylbenzene*	<0.050	0.050	11/19/2015	ND	2.08	104	2.00	7.30		
Total Xylenes*	<0.150	0.150	11/19/2015	ND	6.20	103	6.00	7.21		
Total BTEX	<0.300	0.300	11/19/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/18/2015	ND	416	104	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	11/18/2015	ND	200	100	200	3.13		
DRO >C10-C28	<10.0	10.0	11/18/2015	ND	199	99.6	200	3.15		

Surrogate: 1-Chlorooctane 78.5 % 35-147

Surrogate: 1-Chlorooctadecane 84.3 % 28-171

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Received:	11/17/2015	Sampling Date:	11/11/2015
Reported:	11/20/2015	Sampling Type:	Soil
Project Name:	TRAPPER 13 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR		

**Sample ID: SP2 @ 1 (H503031-06)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	11/19/2015	ND	1.93	96.3	2.00	4.05	
<b>Toluene*</b>	<b>12.5</b>	1.00	11/19/2015	ND	2.18	109	2.00	4.13	
<b>Ethylbenzene*</b>	<b>18.1</b>	1.00	11/19/2015	ND	2.13	106	2.00	3.75	
<b>Total Xylenes*</b>	<b>74.5</b>	3.00	11/19/2015	ND	6.32	105	6.00	3.89	
<b>Total BTEX</b>	<b>105</b>	6.00	11/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>528</b>	16.0	11/18/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>1420</b>	10.0	11/18/2015	ND	200	100	200	3.13		
<b>DRO &gt;C10-C28</b>	<b>6960</b>	10.0	11/18/2015	ND	199	99.6	200	3.15		

Surrogate: 1-Chlorooctane 173 % 35-147

Surrogate: 1-Chlorooctadecane 170 % 28-171

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

Received:	11/17/2015	Sampling Date:	11/11/2015
Reported:	11/20/2015	Sampling Type:	Soil
Project Name:	TRAPPER 13 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR		

**Sample ID: SP2 @ 2 (H503031-07)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	11/19/2015	ND	1.93	96.3	2.00	4.05	
Toluene*	<1.00	1.00	11/19/2015	ND	2.18	109	2.00	4.13	
<b>Ethylbenzene*</b>	<b>2.43</b>	1.00	11/19/2015	ND	2.13	106	2.00	3.75	
<b>Total Xylenes*</b>	<b>10.8</b>	3.00	11/19/2015	ND	6.32	105	6.00	3.89	
<b>Total BTEX</b>	<b>13.2</b>	6.00	11/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>752</b>	16.0	11/19/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>1740</b>	100	11/19/2015	ND	200	100	200	3.13	
<b>DRO &gt;C10-C28</b>	<b>1030</b>	100	11/19/2015	ND	199	99.6	200	3.15	

Surrogate: 1-Chlorooctane 114 % 35-147

Surrogate: 1-Chlorooctadecane 128 % 28-171

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

Received:	11/17/2015	Sampling Date:	11/11/2015
Reported:	11/20/2015	Sampling Type:	Soil
Project Name:	TRAPPER 13 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR		

**Sample ID: SP2 @ 3 (H503031-08)**

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	11/19/2015	ND	1.93	96.3	2.00	4.05	
<b>Toluene*</b>	<b>0.133</b>	0.050	11/19/2015	ND	2.18	109	2.00	4.13	
Ethylbenzene*	<0.050	0.050	11/19/2015	ND	2.13	106	2.00	3.75	
<b>Total Xylenes*</b>	<b>1.39</b>	0.150	11/19/2015	ND	6.32	105	6.00	3.89	
<b>Total BTEX</b>	<b>1.52</b>	0.300	11/19/2015	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 139 % 73.6-140*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>656</b>	16.0	11/19/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	11/19/2015	ND	200	100	200	3.13	
<b>DRO &gt;C10-C28</b>	<b>933</b>	100	11/19/2015	ND	199	99.6	200	3.15	

*Surrogate: 1-Chlorooctane 100 % 35-147*
*Surrogate: 1-Chlorooctadecane 128 % 28-171*

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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:	11/17/2015	Sampling Date:	11/12/2015
Reported:	11/20/2015	Sampling Type:	Soil
Project Name:	TRAPPER 13 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR		

**Sample ID: SP2 @ 4 (H503031-09)**

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	11/19/2015	ND	1.93	96.3	2.00	4.05	
Toluene*	<0.050	0.050	11/19/2015	ND	2.18	109	2.00	4.13	
Ethylbenzene*	<0.050	0.050	11/19/2015	ND	2.13	106	2.00	3.75	
Total Xylenes*	<0.150	0.150	11/19/2015	ND	6.32	105	6.00	3.89	
Total BTEX	<0.300	0.300	11/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>256</b>	16.0	11/19/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/19/2015	ND	200	100	200	0.291	
DRO >C10-C28	<10.0	10.0	11/19/2015	ND	200	100	200	1.39	

Surrogate: 1-Chlorooctane 80.4 % 35-147

Surrogate: 1-Chlorooctadecane 86.0 % 28-171

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

Received:	11/17/2015	Sampling Date:	11/11/2015
Reported:	11/20/2015	Sampling Type:	Soil
Project Name:	TRAPPER 13 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR		

**Sample ID: SP3 @ 1 (H503031-10)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	11/19/2015	ND	1.93	96.3	2.00	4.05	
<b>Toluene*</b>	<b>16.9</b>	2.00	11/19/2015	ND	2.18	109	2.00	4.13	
<b>Ethylbenzene*</b>	<b>22.1</b>	2.00	11/19/2015	ND	2.13	106	2.00	3.75	
<b>Total Xylenes*</b>	<b>88.5</b>	6.00	11/19/2015	ND	6.32	105	6.00	3.89	
<b>Total BTEX</b>	<b>128</b>	12.0	11/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	11/19/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>3260</b>	50.0	11/19/2015	ND	200	100	200	0.291		
<b>DRO &gt;C10-C28</b>	<b>14900</b>	50.0	11/19/2015	ND	200	100	200	1.39		

Surrogate: 1-Chlorooctane 197 % 35-147

Surrogate: 1-Chlorooctadecane 349 % 28-171

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 Fax To: (575) 397-0397

Received:	11/17/2015	Sampling Date:	11/11/2015
Reported:	11/20/2015	Sampling Type:	Soil
Project Name:	TRAPPER 13 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR		

**Sample ID: SP3 @ 2 (H503031-11)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	11/19/2015	ND	1.93	96.3	2.00	4.05	
<b>Toluene*</b>	<b>5.81</b>	1.00	11/19/2015	ND	2.18	109	2.00	4.13	
<b>Ethylbenzene*</b>	<b>9.68</b>	1.00	11/19/2015	ND	2.13	106	2.00	3.75	
<b>Total Xylenes*</b>	<b>55.3</b>	3.00	11/19/2015	ND	6.32	105	6.00	3.89	
<b>Total BTEX</b>	<b>70.8</b>	6.00	11/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	11/19/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>1770</b>	10.0	11/19/2015	ND	200	100	200	0.291		
<b>DRO &gt;C10-C28</b>	<b>10200</b>	10.0	11/19/2015	ND	200	100	200	1.39		

Surrogate: 1-Chlorooctane 212 % 35-147

Surrogate: 1-Chlorooctadecane 247 % 28-171

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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:	11/17/2015	Sampling Date:	11/11/2015
Reported:	11/20/2015	Sampling Type:	Soil
Project Name:	TRAPPER 13 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR		

**Sample ID: SP3 @ 3 (H503031-12)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	11/19/2015	ND	1.93	96.3	2.00	4.05	
<b>Toluene*</b>	<b>5.73</b>	1.00	11/19/2015	ND	2.18	109	2.00	4.13	
<b>Ethylbenzene*</b>	<b>8.16</b>	1.00	11/19/2015	ND	2.13	106	2.00	3.75	
<b>Total Xylenes*</b>	<b>44.9</b>	3.00	11/19/2015	ND	6.32	105	6.00	3.89	
<b>Total BTEX</b>	<b>58.8</b>	6.00	11/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>96.0</b>	16.0	11/19/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>1480</b>	10.0	11/19/2015	ND	200	100	200	0.291		
<b>DRO &gt;C10-C28</b>	<b>7370</b>	10.0	11/19/2015	ND	200	100	200	1.39		

Surrogate: 1-Chlorooctane 181 % 35-147

Surrogate: 1-Chlorooctadecane 176 % 28-171

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 Fax To: (575) 397-0397

Received:	11/17/2015	Sampling Date:	11/12/2015
Reported:	11/20/2015	Sampling Type:	Soil
Project Name:	TRAPPER 13 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR		

**Sample ID: SP3 @ 4 (H503031-13)**

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	11/19/2015	ND	1.93	96.3	2.00	4.05	
Toluene*	<0.050	0.050	11/19/2015	ND	2.18	109	2.00	4.13	
Ethylbenzene*	<0.050	0.050	11/19/2015	ND	2.13	106	2.00	3.75	
Total Xylenes*	<0.150	0.150	11/19/2015	ND	6.32	105	6.00	3.89	
Total BTEX	<0.300	0.300	11/19/2015	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.6-140*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>128</b>	16.0	11/19/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/19/2015	ND	200	100	200	0.291	
<b>DRO &gt;C10-C28</b>	<b>28.8</b>	10.0	11/19/2015	ND	200	100	200	1.39	

*Surrogate: 1-Chlorooctane 88.7 % 35-147*
*Surrogate: 1-Chlorooctadecane 96.0 % 28-171*

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

Received:	11/17/2015	Sampling Date:	11/11/2015
Reported:	11/20/2015	Sampling Type:	Soil
Project Name:	TRAPPER 13 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR		

**Sample ID: SP4 @ 1 (H503031-14)**

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	11/19/2015	ND	1.93	96.3	2.00	4.05		
Toluene*	<0.050	0.050	11/19/2015	ND	2.18	109	2.00	4.13		
Ethylbenzene*	<0.050	0.050	11/19/2015	ND	2.13	106	2.00	3.75		
Total Xylenes*	<0.150	0.150	11/19/2015	ND	6.32	105	6.00	3.89		
Total BTEX	<0.300	0.300	11/19/2015	ND						

*Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.6-140*

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>208</b>	16.0	11/19/2015	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/19/2015	ND	200	100	200	0.291		
<b>DRO &gt;C10-C28</b>	<b>20.5</b>	10.0	11/19/2015	ND	200	100	200	1.39		

*Surrogate: 1-Chlorooctane 93.9 % 35-147*
*Surrogate: 1-Chlorooctadecane 102 % 28-171*

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 Fax To: (575) 397-0397

Received:	11/17/2015	Sampling Date:	11/11/2015
Reported:	11/20/2015	Sampling Type:	Soil
Project Name:	TRAPPER 13 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR		

**Sample ID: SP4 @ 2 (H503031-15)**

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	11/19/2015	ND	1.93	96.3	2.00	4.05		
Toluene*	<0.050	0.050	11/19/2015	ND	2.18	109	2.00	4.13		
Ethylbenzene*	<0.050	0.050	11/19/2015	ND	2.13	106	2.00	3.75		
Total Xylenes*	<0.150	0.150	11/19/2015	ND	6.32	105	6.00	3.89		
Total BTEX	<0.300	0.300	11/19/2015	ND						

*Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.6-140*

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>224</b>	16.0	11/19/2015	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/19/2015	ND	200	100	200	0.291		
DRO >C10-C28	<10.0	10.0	11/19/2015	ND	200	100	200	1.39		

*Surrogate: 1-Chlorooctane 87.7 % 35-147*
*Surrogate: 1-Chlorooctadecane 93.4 % 28-171*

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Received:	11/17/2015	Sampling Date:	11/11/2015
Reported:	11/20/2015	Sampling Type:	Soil
Project Name:	TRAPPER 13 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR		

**Sample ID: SP4 @ 3 (H503031-16)**

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	11/19/2015	ND	1.93	96.3	2.00	4.05	
Toluene*	<0.050	0.050	11/19/2015	ND	2.18	109	2.00	4.13	
Ethylbenzene*	<0.050	0.050	11/19/2015	ND	2.13	106	2.00	3.75	
<b>Total Xylenes*</b>	<b>0.202</b>	0.150	11/19/2015	ND	6.32	105	6.00	3.89	
Total BTEX	<0.300	0.300	11/19/2015	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 116 % 73.6-140*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>832</b>	16.0	11/19/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>13.3</b>	10.0	11/19/2015	ND	200	100	200	0.291	
<b>DRO &gt;C10-C28</b>	<b>628</b>	10.0	11/19/2015	ND	200	100	200	1.39	

*Surrogate: 1-Chlorooctane 89.2 % 35-147*
*Surrogate: 1-Chlorooctadecane 97.7 % 28-171*

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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:	11/17/2015	Sampling Date:	11/12/2015
Reported:	11/20/2015	Sampling Type:	Soil
Project Name:	TRAPPER 13 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR		

**Sample ID: SP4 @ 5 (H503031-17)**

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	11/19/2015	ND	1.93	96.3	2.00	4.05	
Toluene*	<0.050	0.050	11/19/2015	ND	2.18	109	2.00	4.13	
Ethylbenzene*	<0.050	0.050	11/19/2015	ND	2.13	106	2.00	3.75	
Total Xylenes*	<0.150	0.150	11/19/2015	ND	6.32	105	6.00	3.89	
Total BTEX	<0.300	0.300	11/19/2015	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/19/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/19/2015	ND	200	100	200	0.291	
DRO >C10-C28	<10.0	10.0	11/19/2015	ND	200	100	200	1.39	

Surrogate: 1-Chlorooctane 85.4 % 35-147

Surrogate: 1-Chlorooctadecane 91.7 % 28-171

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

Received:	11/17/2015	Sampling Date:	11/11/2015
Reported:	11/20/2015	Sampling Type:	Soil
Project Name:	TRAPPER 13 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR		

**Sample ID: SP5 @ 1 (H503031-18)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/19/2015	ND	1.93	96.3	2.00	4.05	
<b>Toluene*</b>	<b>7.01</b>	0.500	11/19/2015	ND	2.18	109	2.00	4.13	
<b>Ethylbenzene*</b>	<b>11.7</b>	0.500	11/19/2015	ND	2.13	106	2.00	3.75	
<b>Total Xylenes*</b>	<b>45.7</b>	1.50	11/19/2015	ND	6.32	105	6.00	3.89	
<b>Total BTEX</b>	<b>64.4</b>	3.00	11/19/2015	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 125 % 73.6-140*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>336</b>	16.0	11/19/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>926</b>	10.0	11/19/2015	ND	200	100	200	0.291		
<b>DRO &gt;C10-C28</b>	<b>4830</b>	10.0	11/19/2015	ND	200	100	200	1.39		

*Surrogate: 1-Chlorooctane 153 % 35-147*
*Surrogate: 1-Chlorooctadecane 150 % 28-171*

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

Received:	11/17/2015	Sampling Date:	11/11/2015
Reported:	11/20/2015	Sampling Type:	Soil
Project Name:	TRAPPER 13 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR		

**Sample ID: SP5 @ 2 (H503031-19)**

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	11/19/2015	ND	1.93	96.3	2.00	4.05	
Toluene*	<0.050	0.050	11/19/2015	ND	2.18	109	2.00	4.13	
Ethylbenzene*	<0.050	0.050	11/19/2015	ND	2.13	106	2.00	3.75	
Total Xylenes*	<0.150	0.150	11/19/2015	ND	6.32	105	6.00	3.89	
Total BTEX	<0.300	0.300	11/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>144</b>	16.0	11/19/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/19/2015	ND	200	100	200	0.291	
<b>DRO &gt;C10-C28</b>	<b>10.9</b>	10.0	11/19/2015	ND	200	100	200	1.39	

Surrogate: 1-Chlorooctane 85.7 % 35-147

Surrogate: 1-Chlorooctadecane 92.5 % 28-171

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 Fax To: (575) 397-0397

Received:	11/17/2015	Sampling Date:	11/11/2015
Reported:	11/20/2015	Sampling Type:	Soil
Project Name:	TRAPPER 13 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR		

**Sample ID: SP5 @ 3 (H503031-20)**

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	11/20/2015	ND	1.93	96.3	2.00	4.05	
Toluene*	<0.050	0.050	11/20/2015	ND	2.18	109	2.00	4.13	
Ethylbenzene*	<0.050	0.050	11/20/2015	ND	2.13	106	2.00	3.75	
<b>Total Xylenes*</b>	<b>0.151</b>	0.150	11/20/2015	ND	6.32	105	6.00	3.89	
Total BTEX	<0.300	0.300	11/20/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>912</b>	16.0	11/19/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/19/2015	ND	200	100	200	0.291	
<b>DRO &gt;C10-C28</b>	<b>429</b>	10.0	11/19/2015	ND	200	100	200	1.39	

Surrogate: 1-Chlorooctane 89.4 % 35-147

Surrogate: 1-Chlorooctadecane 96.0 % 28-171

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\*=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:	11/17/2015	Sampling Date:	11/12/2015
Reported:	11/20/2015	Sampling Type:	Soil
Project Name:	TRAPPER 13 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR		

**Sample ID: SP5 @ 4 (H503031-21)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/20/2015	ND	1.93	96.3	2.00	4.05	
<b>Toluene*</b>	<b>1.27</b>	0.500	11/20/2015	ND	2.18	109	2.00	4.13	
<b>Ethylbenzene*</b>	<b>3.36</b>	0.500	11/20/2015	ND	2.13	106	2.00	3.75	
<b>Total Xylenes*</b>	<b>24.3</b>	1.50	11/20/2015	ND	6.32	105	6.00	3.89	
<b>Total BTEX</b>	<b>28.9</b>	3.00	11/20/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>112</b>	16.0	11/19/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>1100</b>	10.0	11/19/2015	ND	200	100	200	0.291		
<b>DRO &gt;C10-C28</b>	<b>6890</b>	10.0	11/19/2015	ND	200	100	200	1.39		

Surrogate: 1-Chlorooctane 181 % 35-147

Surrogate: 1-Chlorooctadecane 181 % 28-171

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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:	11/17/2015	Sampling Date:	11/12/2015
Reported:	11/20/2015	Sampling Type:	Soil
Project Name:	TRAPPER 13 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR		

**Sample ID: SP5 @ 5 (H503031-22)**

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	11/20/2015	ND	1.93	96.3	2.00	4.05		
Toluene*	<0.050	0.050	11/20/2015	ND	2.18	109	2.00	4.13		
Ethylbenzene*	<0.050	0.050	11/20/2015	ND	2.13	106	2.00	3.75		
Total Xylenes*	<0.150	0.150	11/20/2015	ND	6.32	105	6.00	3.89		
Total BTEX	<0.300	0.300	11/20/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>448</b>	16.0	11/19/2015	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/19/2015	ND	200	100	200	0.291		
<b>DRO &gt;C10-C28</b>	<b>69.8</b>	10.0	11/19/2015	ND	200	100	200	1.39		

Surrogate: 1-Chlorooctane 84.8 % 35-147

Surrogate: 1-Chlorooctadecane 92.6 % 28-171

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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:	11/17/2015	Sampling Date:	11/12/2015
Reported:	11/20/2015	Sampling Type:	Soil
Project Name:	TRAPPER 13 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR		

**Sample ID: SP6 @ SURFACE (H503031-23)**

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	11/20/2015	ND	1.93	96.3	2.00	4.05	
Toluene*	<0.050	0.050	11/20/2015	ND	2.18	109	2.00	4.13	
Ethylbenzene*	<0.050	0.050	11/20/2015	ND	2.13	106	2.00	3.75	
Total Xylenes*	<0.150	0.150	11/20/2015	ND	6.32	105	6.00	3.89	
Total BTEX	<0.300	0.300	11/20/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/19/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/19/2015	ND	200	100	200	0.291	
<b>DRO &gt;C10-C28</b>	<b>946</b>	10.0	11/19/2015	ND	200	100	200	1.39	

Surrogate: 1-Chlorooctane 90.4 % 35-147

Surrogate: 1-Chlorooctadecane 119 % 28-171

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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:	11/17/2015	Sampling Date:	11/12/2015
Reported:	11/20/2015	Sampling Type:	Soil
Project Name:	TRAPPER 13 FED COM #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALJAMAR		

**Sample ID: SP6 @ 1 (H503031-24)**

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	11/20/2015	ND	1.93	96.3	2.00	4.05		
Toluene*	<0.050	0.050	11/20/2015	ND	2.18	109	2.00	4.13		
Ethylbenzene*	<0.050	0.050	11/20/2015	ND	2.13	106	2.00	3.75		
Total Xylenes*	<0.150	0.150	11/20/2015	ND	6.32	105	6.00	3.89		
Total BTEX	<0.300	0.300	11/20/2015	ND						

*Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.6-140*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/19/2015	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/19/2015	ND	200	100	200	0.291		
DRO >C10-C28	<10.0	10.0	11/19/2015	ND	200	100	200	1.39		

*Surrogate: 1-Chlorooctane 91.2 % 35-147*
*Surrogate: 1-Chlorooctadecane 98.3 % 28-171*

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- S-04            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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 SM450Cl-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



**CARDINAL LABORATORIES**  
 101 East Marland, Hobbs, NM 88240  
 (505) 393-2326 FAX (505) 393-2476

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

1/3

**BILL TO**

**ANALYSIS REQUEST**

Company Name: BBC International, Inc.  
 Project Manager: Cliff Brunson  
 Address: P.O. Box 805  
 City: Hobbs  
 State: NM Zip: 88241  
 Phone #: 575-397-6388  
 Fax #: 575-397-0397  
 Project #: \_\_\_\_\_  
 Project Name: *Trapper 13 Red Can #2*  
 Project Location: *Mojave*  
 Sampler Name: *R.D.*  
 P.O. #: \_\_\_\_\_  
 Company: \_\_\_\_\_  
 Attn: *COG*  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_  
 State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone #: \_\_\_\_\_  
 Fax #: \_\_\_\_\_

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.		MATRIX						PRESERV	SAMPLING	DATE	TIME	TPH	CI	BTEX
		# CONTAINERS		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :							
H503031	SP1E1	1										11-11	14:33	X	X	X
	SP1E2											11-11	14:33	X	X	X
	SP1E3											11-11	14:33	X	X	X
	SP1E4											11-11	14:33	X	X	X
	SP1E5											11-11	14:33	X	X	X
	SP1E6											11-11	14:33	X	X	X
	SP1E7											11-11	14:33	X	X	X
	SP1E8											11-11	14:33	X	X	X
	SP1E9											11-11	14:33	X	X	X
	SP1E10											11-11	14:33	X	X	X
	SP2E1											11-12	09:00	X	X	X
	SP2E2											11-12	09:00	X	X	X
	SP2E3											11-12	09:00	X	X	X
	SP2E4											11-12	09:00	X	X	X
	SP2E5											11-12	09:00	X	X	X
	SP2E6											11-12	09:00	X	X	X
	SP2E7											11-12	09:00	X	X	X
	SP2E8											11-12	09:00	X	X	X
	SP2E9											11-12	09:00	X	X	X
	SP2E10											11-12	09:00	X	X	X
	SP3E1											11-12	09:00	X	X	X

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Relinquished By: *Cliff Brunson*  
 Date: *11/11/15*  
 Time: *8:30 AM*  
 Received By: *Scott Henderson*  
 Date: *11/11/15*  
 Time: *9:10*  
 Sample Condition:  Intact  Cool  Yes  No

Delivered By: (Circle One) *Scott Henderson*  
 Sampler - UPS - Bus - Other: *-1.62*

CHECKED BY: (Initials) *[Signature]*

Phone Result:  Yes  No  
 Fax Result:  Yes  No  
 Add'l Phone #: \_\_\_\_\_  
 Add'l Fax #: \_\_\_\_\_

REMARKS:

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#54



**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240  
(505) 393-2326 FAX (505) 393-2476

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

213

**BILL TO**

**ANALYSIS REQUEST**

P.O. #:

Company:

Attn:

Address:

City:

State:

Phone #:

Fax #:

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Location: *Pepper 13 Falcon #2*

Sampler Name: *Malvar*

State: NM Zip: 88241

Fax #: 575-397-0397

Project Owner: *Concho*

City: *COG*

State: *COG*

Phone #: *COG*

Fax #: *COG*

Lab I.D. *H503031*

Sample I.D. *SP303*

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.			DATE	TIME	TPH	Cl-	BTEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :					
<i>11</i>	<i>SP303</i>	<i>1</i>	<i>1</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>11-11</i>	<i>232</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>12</i>	<i>SP304</i>	<i>1</i>	<i>1</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>11-11</i>	<i>345</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>13</i>	<i>SP402</i>	<i>1</i>	<i>1</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>11-12</i>	<i>1025</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>14</i>	<i>SP403</i>	<i>1</i>	<i>1</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>11-11</i>	<i>300</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>15</i>	<i>SP405</i>	<i>1</i>	<i>1</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>11-11</i>	<i>314</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>16</i>	<i>SP502</i>	<i>1</i>	<i>1</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>11-11</i>	<i>382</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>17</i>	<i>SP503</i>	<i>1</i>	<i>1</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>11-11</i>	<i>353</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>18</i>	<i>SP502</i>	<i>1</i>	<i>1</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>11-11</i>	<i>344</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>19</i>	<i>SP503</i>	<i>1</i>	<i>1</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>11-11</i>	<i>344</i>	<i>X</i>	<i>X</i>	<i>X</i>	
<i>20</i>	<i>SP503</i>	<i>1</i>	<i>1</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>11-11</i>	<i>344</i>	<i>X</i>	<i>X</i>	<i>X</i>	

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Reinquished By: *[Signature]*

Date: *11/17/15*

Received By: *[Signature]*

Reinquished By: *[Signature]*

Date: *11/17/15*

Received By: *[Signature]*

Reinquished By: *[Signature]*

Date: *11/17/15*

Received By: *[Signature]*

Delivered By: (Circle One) *Malvar*

Date: *11/17/15*

Received By: *[Signature]*

Sampler - UPS - Bus - Other: *-1.62*

Date: *11/17/15*

Received By: *[Signature]*

Delivered By: (Circle One) *Malvar*

Date: *11/17/15*

Received By: *[Signature]*

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#154



**ARDINAL LABORATORIES**  
 101 East Marland, Hobbs, NM 88240  
 (505) 393-2326 FAX (505) 393-2476

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

3/3

Company Name: BBC International, Inc. **BILL TO** ANALYSIS REQUEST  
 Project Manager: Cliff Brunson  
 Address: P.O. Box 805  
 City: Hobbs State: NM Zip: 88241  
 Phone #: 575-397-6388 Fax #: 575-397-0397  
 Project #: Project Owner: *Concho*  
 Project Name: *Trapper 13 Fed Con #2*  
 Project Location: *M2/Jan 21*  
 Sampler Name: *V.O. Jensen*  
 P.O. #: Company: Attn: Address: City: State: Zip: *COE*  
 Phone #: Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV	SAMPLING	DATE	TIME	TPH	BTEX	U-
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :							
H503031																
	<i>SP5024</i>															
	<i>SP5025</i>															
	<i>SP6055</i>															
	<i>SP6601</i>															

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Relinquished By: *[Signature]* Date: *11-17-15* Time: *8:30 AM* Received By: *[Signature]*  
 Relinquished By: *[Signature]* Date: *11/17/15* Time: *9:10* Received By: *[Signature]*  
 Delivered By: (Circle One) *UPS* Sample Condition:  Intact  Cool  Yes  No  
 Sampler - UPS - Bus - Other: *-1.62* CHECKED BY: *[Signature]*  
 Phone Result:  Yes  No Add'l Phone #:   
 Fax Result:  Yes  No Add'l Fax #:   
 REMARKS: *#54*

## Kathy Purvis

---

**From:** Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>  
**Sent:** Wednesday, December 09, 2015 9:32 AM  
**To:** Cliff Brunson  
**Cc:** Ken Swinney; Jennifer Gilkey; Kathy Purvis; Shelly Tucker; Patterson, Heather, EMNRD  
**Subject:** RE: COG (Concho) Trapper 13 Fed Com #2 - Remediation Plan

RE: COG \* Trapper 13 Fed Com 2 \* 30-015-31568 \* E-13-19s-31e  
**2RP-3275** \* Date of release: 8/30/2015

Cliff,

Your proposal for remediation of the above referenced release is approved. Contamination left in place will be delineated and remediated at close of facility. A notation to that effect will be placed in OCD data base. It is OCD's understanding that BLM has approved this proposal as well.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact me.

Mike Bratcher  
NMOCD District 2  
811 S. First Street  
Artesia, NM 88210  
O: 575-748-1283 X108  
C: 575-626-0857  
F: 575-748-9720

---

**From:** Cliff Brunson [mailto:cbrunson@bbcinternational.com]  
**Sent:** Wednesday, December 02, 2015 7:23 PM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** FW: COG (Concho) Trapper 13 Fed Com #2 - Remediation Plan

Mike,

This is the plan that we discussed last week over the phone. As you can see below, Shelly with the BLM has approved what we discussed. I have attached the updated version of what you and I agreed upon. If you would please reply via email with your approval, it would be appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS  
President  
BBC International, Inc.

World-Wide Environmental Specialists

Mailing Address:

P. O. Box 805

Hobbs, NM 88241-0805 USA

Shipping Address:

1324 W. Marland St.

Hobbs, NM 88240 USA

Phone: (575) 397-6388

Fax: (575) 397-0397

E-Mail: [cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)

\*\*\*\*\*

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\*\*\*\*\*

**From:** Tucker, Shelly [mailto:[stucker@blm.gov](mailto:stucker@blm.gov)]

**Sent:** Wednesday, December 2, 2015 12:18 PM

**To:** Cliff Brunson <[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)>

**Cc:** Ken Swinney <[kswinney@bbcinternational.com](mailto:kswinney@bbcinternational.com)>; Jennifer Gilkey <[jgilkey@bbcinternational.com](mailto:jgilkey@bbcinternational.com)>; Kathy Purvis <[kathy@bbcinternational.com](mailto:kathy@bbcinternational.com)>; Henryetta Price <[hprice@blm.gov](mailto:hprice@blm.gov)>

**Subject:** Re: COG (Concho) Trapper 13 Fed Com #2 - Remediation Plan

BLM accepts/approves the plan as written.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

*Shelly J Tucker*

Environmental Protection Specialist

Bureau of Land Management

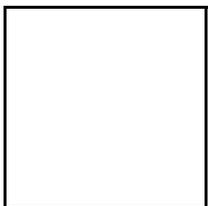
620 E. Greene St

Carlsbad, NM 88220

575.234.5905 - Direct

575.361.0084 - Cellular

[stucker@blm.gov](mailto:stucker@blm.gov)



The BLM acceptance/approval does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment or if the location fails to reclaim properly. In such an event that the location does not revegetate, or future

issues with contaminants are encountered, the operator will be asked to address the issues until the contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state or local laws/regulations.

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On Wed, Dec 2, 2015 at 8:54 AM, Tucker, Shelly <[stucker@blm.gov](mailto:stucker@blm.gov)> wrote:

I am forwarding this work plan to Henryetta Price. She was originally assigned this location on 09.18.2015.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

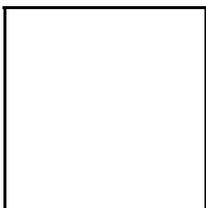
*Shelly J Tucker*

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On Tue, Dec 1, 2015 at 7:14 PM, Cliff Brunson <[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)> wrote:

Shelly,

I have attached a remediation plan for the COG (Concho) Trapper 13 Fed Com #2. This plan has been verbally approved by Mike Bratcher of the NMOCD. COG is requested the BLM's approval of this plan as well. Upon your review of the materials, it would be appreciated if you would respond via email with the BLM's approval.

If you have any questions, please let me know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS

President

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World-Wide Environmental Specialists

Mailing Address:

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Hobbs, NM 88241-0805 USA

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Hobbs, NM 88240 USA

Phone: (575) 397-6388

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E-Mail: [cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)

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Version: 2015.0.6176 / Virus Database: 4477/11147 - Release Date: 12/09/15

## Kathy Purvis

---

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**Sent:** Wednesday, December 02, 2015 12:18 PM  
**To:** Cliff Brunson  
**Cc:** Ken Swinney; Jennifer Gilkey; Kathy Purvis; Henryetta Price  
**Subject:** Re: COG (Concho) Trapper 13 Fed Com #2 - Remediation Plan

BLM accepts/approves the plan as written.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

*Shelly J Tucker*

Environmental Protection Specialist  
Bureau of Land Management

620 E. Greene St  
Carlsbad, NM 88220

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Version: 2015.0.6176 / Virus Database: 4477/11099 - Release Date: 12/01/15

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Version: 2015.0.6176 / Virus Database: 4477/11098 - Release Date: 12/01/15

























