

# Closure Report

## Site Description

Site Name:	Corral Draw #2
Company:	Oxy Permian Ltd.
Legal Description:	U/L K, Section 22, T35S, R29E
County:	Eddy County, NM
GPS Coordinates:	N 32.11249° W 103.97449°

## Release Data

Date of Release:	Unknown
Type of Release:	Skim oil and produced water
Source of Release:	Pumps and flow lines
Volume of Release:	Unknown
Volume Recovered:	0 bbls

## Remediation Specifications

Remediation Parameters:	Excavate to a depth of 4 feet across the entire leak area outside of the lined battery. Place a liner in the bottom of the excavation areas around SP1, SP2, SP4, SP7, as well as SB1, SB2, and SB3. The liner inside the battery will also be cleaned. Backfill all excavation areas with clean soil.	
Remediation Activities:	10/31/2014 to 12/05/2014	
Plan Sent to OCD:	08/28/2014	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	09/18/2014	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	08/28/2014	Email from Cliff Brunson to Sol Hughes
BLM Approval of Plan:	08/29/2014	Email from Sol Hughes to Cliff Brunson

## Supporting Documentation

Initial C-141	Signed 02/26/2014
Final C-141	Signed 12/09/2014
Site Diagram	February 2014
Groundwater Plot	150'
TOPO Maps	February 2014
Lab Summary	03/20/2014-03/27/2014 and 07/01/2014
Lab Analysis	03/20/2014-03/27/2014 and 07/01/2014
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.

12/15/2014

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

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised August 8, 2011

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

## Release Notification and Corrective Action

### OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Chancey Summers
Address	1017 W. Stanolind Rd, Hobbs, NM 88240	Telephone No.	(575) 397-8216
Facility Name	Corral Draw #2	Facility Type	SWD
Surface Owner	BLM	Mineral Owner	API No.

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	22	25S	29E	1580	South	1980	West	Eddy County, NM

Latitude N 32.11249° Longitude W 103.97449°

### NATURE OF RELEASE

Type of Release	Skim oil and Produced water	Volume of Release	Unknown	Volume Recovered	0 bbls
Source of Release	Pumps and Flow lines	Date and Hour of Occurrence	Unknown	Date and Hour of Discovery	
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher, NMOCD and Jennifer VanCuren, BLM		
By Whom?		Date and Hour			
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.\*

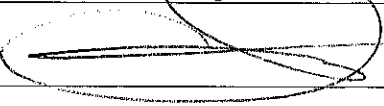
Describe Cause of Problem and Remedial Action Taken.\*

Various leaks caused by pumps and flow lines on this site have caused an unknown amount of skim oil and produced water to leak onto the ground. No fluids were recovered and pumps and flow lines have been repaired or replaced.

Describe Area Affected and Cleanup Action Taken.\*

The affected areas are inside the lined battery around the tanks (35' x 105'), Northeast of the lined battery around a pump (14' x 32'), Northwest of the lined battery just west of the drum (48' x 85'), and further Northwest of the battery near the road traveling off location (200' x 35'). Remediation will be completed in accordance with a remediation plan approved by NMOCD and the BLM.

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: Chancey Summers	Approved by Environmental Specialist:		
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: Chancey.Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 7-26-14 Phone: (575) 397-8216			

\* 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  
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☐ Initial Report ☒ Final Report

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Address	1017 W. Stanolind Rd, Hobbs, NM 88240	Telephone No.	(575) 397-8216
Facility Name	Corral Draw #2	Facility Type	SWD
Surface Owner	BLM	Mineral Owner	API No.

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	22	25S	29E	1580	South	1980	West	Eddy County, NM

Latitude N 32.11249° Longitude W 103.97449°

#### NATURE OF RELEASE

Type of Release	Skim oil and Produced water	Volume of Release	Unknown	Volume Recovered	0 bbls
Source of Release	Pumps and Flow lines	Date and Hour of Occurrence	Unknown	Date and Hour of Discovery	
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher, NMOCD and Jennifer VanCuren, BLM		
By Whom?		Date and Hour			
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.\*

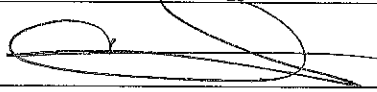
Describe Cause of Problem and Remedial Action Taken.\*

Various leaks caused by pumps and flow lines on this site have caused an unknown amount of skim oil and produced water to leak onto the ground. No fluids were recovered and pumps and flow lines have been repaired or replaced.

Describe Area Affected and Cleanup Action Taken.\*

The affected areas are inside the lined battery around the tanks (35' x 105'), Northeast of the lined battery around a pump (14' x 32'), Northwest of the lined battery just west of the drum (48' x 85'), and further Northwest of the battery near the road traveling off location (200' x 35'). Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 09/18/2014 and approved by Sol Hughes of the BLM via email on 08/29/2014.

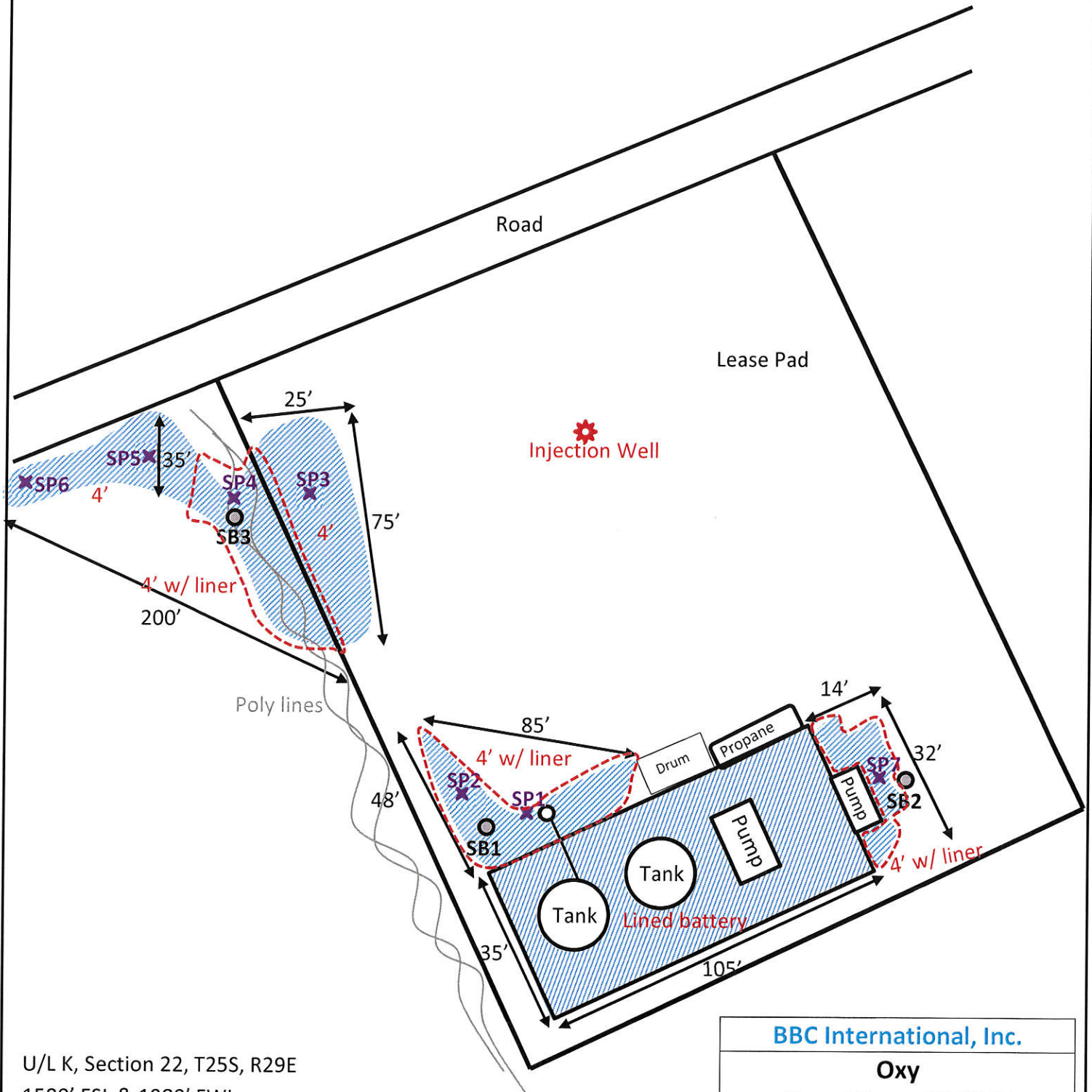
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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: 	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Chancey Summers	Approved by Environmental Specialist:		
Title: HES Advisor	Approval Date:	Expiration Date:	
E-mail Address: <u>Chancey.Summers@oxy.com</u>	Conditions of Approval:		Attached <input type="checkbox"/>
Date: <u>12-9-14</u>	Phone: (575) 397-8216		

\* Attach Additional Sheets If Necessary



Oxy  
Corral Draw #2



U/L K, Section 22, T25S, R29E  
1580' FSL & 1980' FWL  
Eddy County, NM  
N 32.11249° W 103.97449°  
API# 30-015-21425

BBC International, Inc.

Oxy  
Corral Draw #2 SWD

Date: 02/26/2014	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2014

# Groundwater Plot

## Oxy Corral Draw #2

County  
Eddy

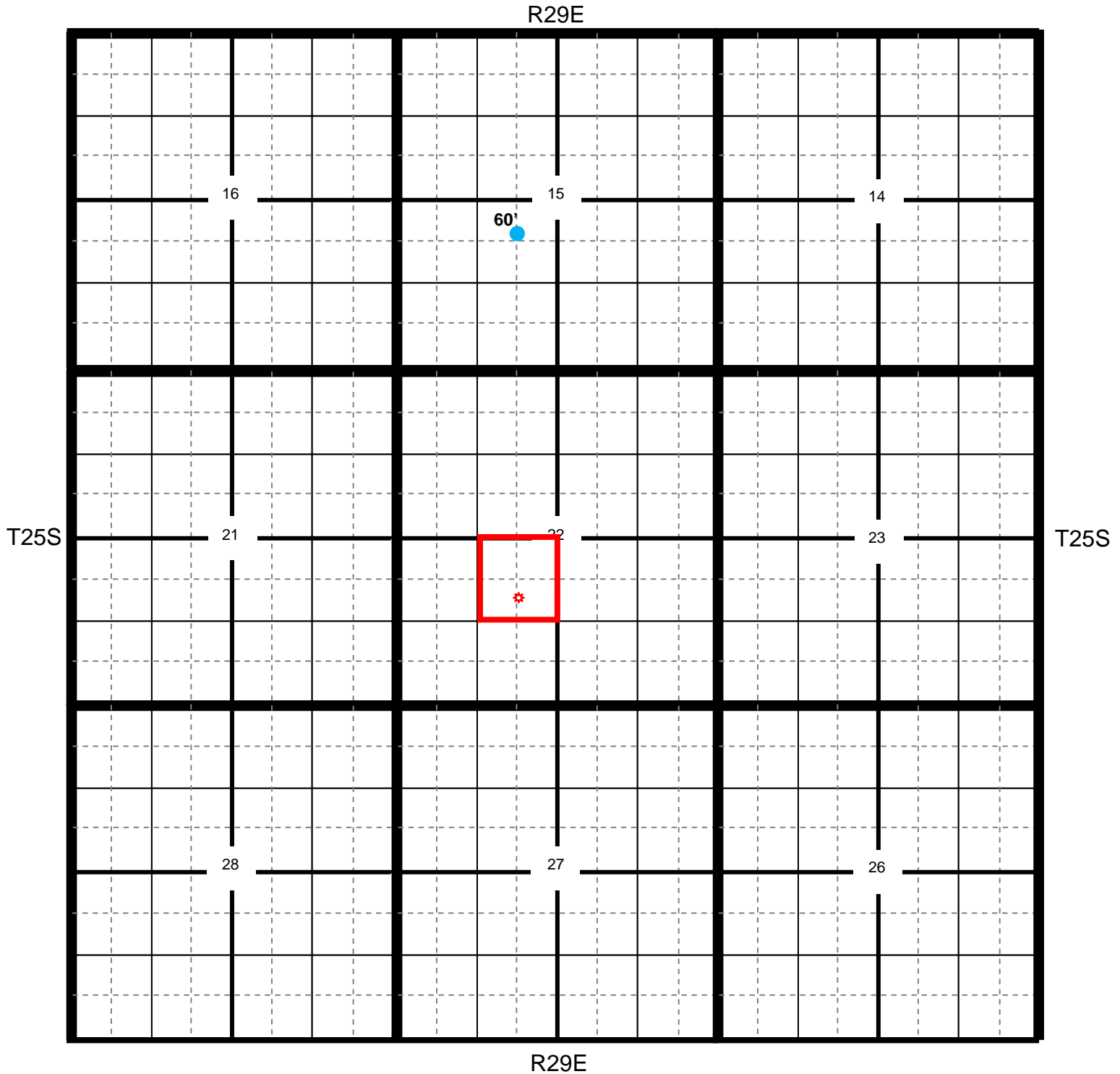
Unit Letter  
K

Section  
22

Township  
25S

Range  
29E

Trend Map 150'



★ Location

● OCD

● USGS

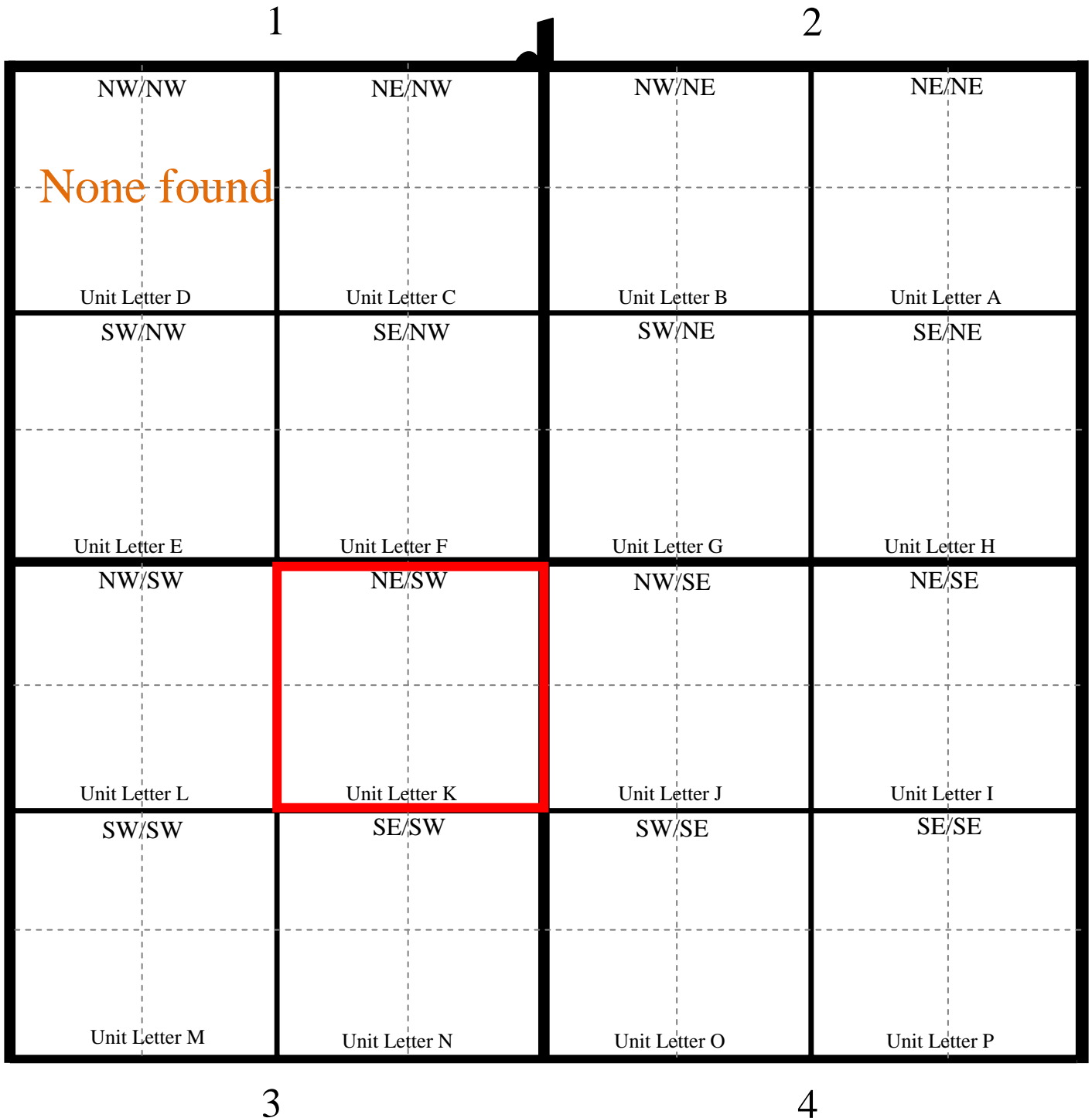
● SEO

● All Databases

## Oxy Corral Draw #2

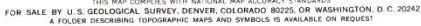
County Eddy      Unit Letter K      Section 22      Township 25S      Range 29E

Trend Map 150'





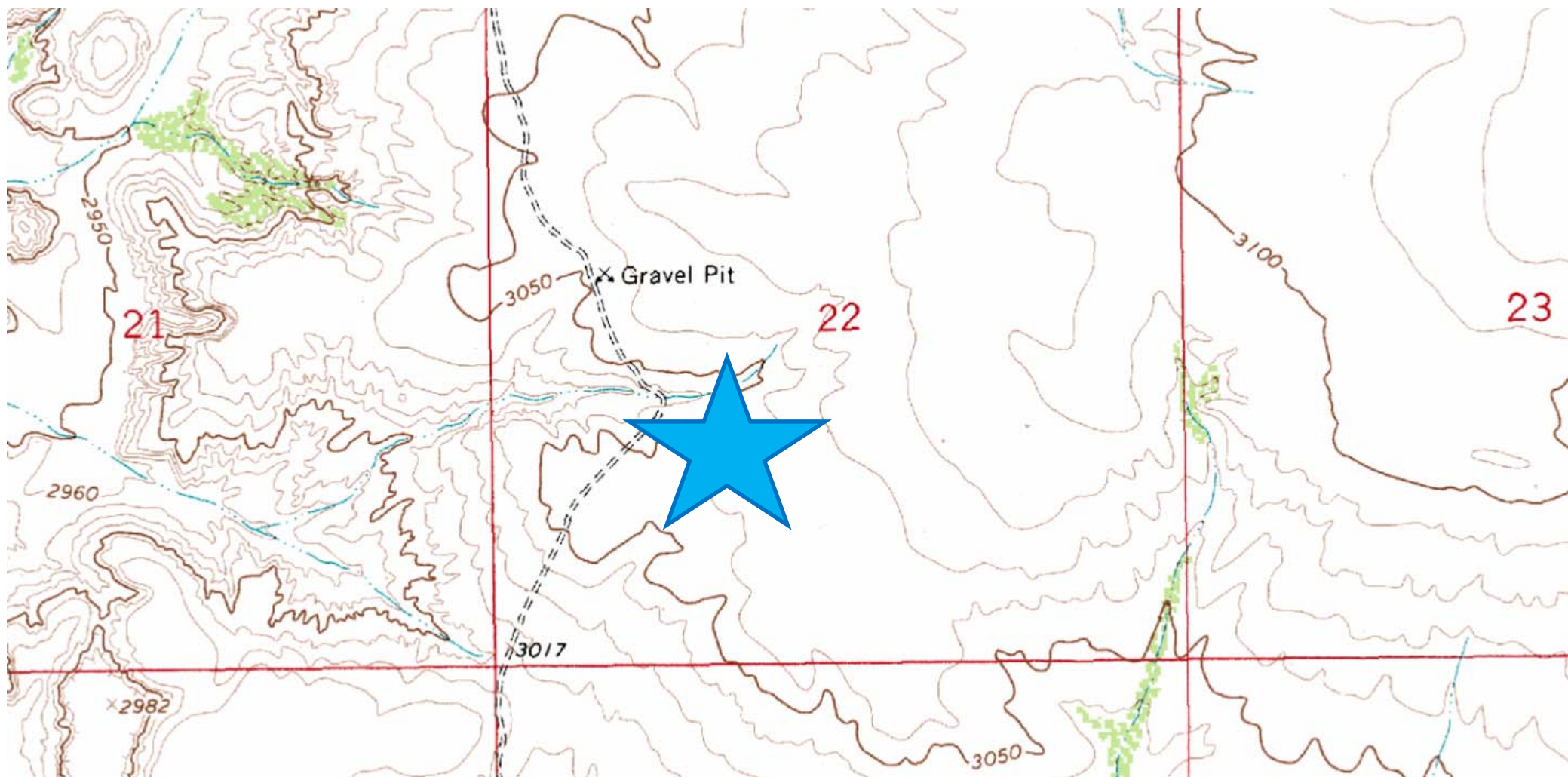
Oxy





# Oxy

## Corral Draw #2





**Laboratory Analytical Results Summary**  
**Corral Draw #2**

		Sample	SP1 @ 1'	SP1 @ 4'	SP1 @ 8'	SP1 @ 12'	SP1 @ 18'
Analyte	Method	Date	3/20/14	3/20/14	3/20/14	3/20/14	3/20/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
<b>Toluene</b>	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
<b>Total Xylenes</b>	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a
<b>Total BTEX</b>	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a
<b>Chloride</b>	SM4500Cl-B		<b>656</b>	<b>2440</b>	<b>1760</b>	<b>2320</b>	<b>2560</b>
<b>GRO</b>	TPH 8015M		<10.0	n/a	n/a	n/a	n/a
<b>DRO</b>	TPH 8015M		<10.0	n/a	n/a	n/a	n/a

		Sample	SP2 @ 1'	SP2 @ 4'	SP2 @ 8'	SP2 @ 12'	SP2 @ 18'
Analyte	Method	Date	3/24/14	3/24/14	3/24/14	3/24/14	3/24/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
<b>Toluene</b>	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
<b>Total Xylenes</b>	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a
<b>Total BTEX</b>	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a
<b>Chloride</b>	SM4500Cl-B		<b>624</b>	<b>2680</b>	<b>3680</b>	<b>3280</b>	<b>3120</b>
<b>GRO</b>	TPH 8015M		<10.0	n/a	n/a	n/a	n/a
<b>DRO</b>	TPH 8015M		<10.0	n/a	n/a	n/a	n/a

		Sample	SP3 @ 1'	SP3 @ 4'	SP3 @ 8'	SP3 @ 12'	SP3 @ 16'
Analyte	Method	Date	3/24/14	3/24/14	3/25/14	3/25/14	3/25/14
			mg/Kg	mg/Kg	mg/Kg	25-Mar	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
<b>Toluene</b>	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
<b>Total Xylenes</b>	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a
<b>Total BTEX</b>	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a
<b>Chloride</b>	SM4500Cl-B		<b>40000</b>	<b>10100</b>	<b>864</b>	<b>384</b>	<b>176</b>
<b>GRO</b>	TPH 8015M		<10.0	n/a	n/a	n/a	n/a
<b>DRO</b>	TPH 8015M		<10.0	n/a	n/a	n/a	n/a

		Sample	SP4 @ 1'	SP4 @ 4'	SP4 @ 8'	SP4 @ 12'	SP4 @ 18'
Analyte	Method	Date	3/25/14	3/25/14	3/25/14	3/25/14	3/25/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
<b>Toluene</b>	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
<b>Total Xylenes</b>	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a
<b>Total BTEX</b>	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a
<b>Chloride</b>	SM4500Cl-B		<b>4880</b>	<b>10300</b>	<b>5600</b>	<b>4640</b>	<b>3840</b>
<b>GRO</b>	TPH 8015M		<10.0	n/a	n/a	n/a	n/a
<b>DRO</b>	TPH 8015M		<10.0	n/a	n/a	n/a	n/a

**Laboratory Analytical Results Summary**  
**Corral Draw #2**

		Sample	SP5 @ 1'	SP5 @ 4'	SP5 @ 8'	SP5 @ 12'	SP5 @ 15'
Analyte	Method	Date	3/26/14	3/26/14	3/26/14	3/26/14	3/26/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
<b>Toluene</b>	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
<b>Total Xylenes</b>	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a
<b>Total BTEX</b>	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a
<b>Chloride</b>	SM4500Cl-B		<b>2000</b>	<b>8640</b>	<b>992</b>	<b>720</b>	<b>256</b>
<b>GRO</b>	TPH 8015M		<10.0	n/a	n/a	n/a	n/a
<b>DRO</b>	TPH 8015M		<10.0	n/a	n/a	n/a	n/a

		Sample	SP6 @ 1'	SP6 @ 4'	SP6 @ 8'	SP6 @ 12'	SP6 @ 15'
Analyte	Method	Date	3/26/14	3/26/14	3/26/14	3/26/14	3/26/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
<b>Toluene</b>	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
<b>Total Xylenes</b>	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a
<b>Total BTEX</b>	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a
<b>Chloride</b>	SM4500Cl-B		<b>1600</b>	<b>8200</b>	<b>976</b>	<b>720</b>	<b>208</b>
<b>GRO</b>	TPH 8015M		<10.0	n/a	n/a	n/a	n/a
<b>DRO</b>	TPH 8015M		<10.0	n/a	n/a	n/a	n/a

		Sample	SP7 @ 1'	SP7 @ 4'	SP7 @ 8'	SP7 @ 12'	SP7 @ 18'
Analyte	Method	Date	3/27/14	3/27/14	3/27/14	3/27/14	3/27/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Benzene</b>	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
<b>Toluene</b>	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
<b>Total Xylenes</b>	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a
<b>Total BTEX</b>	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a
<b>Chloride</b>	SM4500Cl-B		<b>416</b>	<b>9600</b>	<b>12800</b>	<b>11000</b>	<b>12200</b>
<b>GRO</b>	TPH 8015M		<10.0	n/a	n/a	n/a	n/a
<b>DRO</b>	TPH 8015M		<10.0	n/a	n/a	n/a	n/a

**Laboratory Analytical Results Summary**  
**Corral Draw #2**

		Sample	SB1 @ 18'	SB1 @ 25'	SB1 @ 30'	SB1 @ 35'	SB1 @ 43'	SB1 @ 51'	SB1 @ 54'	SB1 @ 56'
Analyte	Method	Date	7/1/14	7/1/14	7/1/14	7/1/14	7/1/14	7/1/14	7/1/14	7/1/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Chloride</b>	SM4500Cl-B		<b>4000</b>	<b>2960</b>	<b>2600</b>	<b>2440</b>	<b>1120</b>	<b>272</b>	<b>176</b>	<b>128</b>

		Sample	SB2 @ 23'	SB2 @ 28'	SB2 @ 33'	SB2 @ 38'	SB2 @ 43'	SB2 @ 46'
Analyte	Method	Date	7/1/14	7/1/14	7/1/14	7/1/14	7/1/14	7/1/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Chloride</b>	SM4500Cl-B		<b>7120</b>	<b>6960</b>	<b>640</b>	<b>288</b>	<b>272</b>	<b>144</b>

		Sample	SB3 @ 23'	SB3 @ 28'	SB3 @ 33'	SB3 @ 38'	SB3 @ 40'
Analyte	Method	Date	7/1/14	7/1/14	7/1/14	7/1/14	7/1/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Chloride</b>	SM4500Cl-B		<b>3600</b>	<b>3600</b>	<b>272</b>	<b>112</b>	<b>176</b>

April 04, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CORRAL DRAW #2

Enclosed are the results of analyses for samples received by the laboratory on 03/28/14 12:00.

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,



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:	03/28/2014	Sampling Date:	03/20/2014
Reported:	04/04/2014	Sampling Type:	Soil
Project Name:	CORRAL DRAW #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SP 1 @ 1' (H400930-01)**

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2014	ND	2.28	114	2.00	8.45	
Toluene*	<0.050	0.050	04/01/2014	ND	2.18	109	2.00	8.38	
Ethylbenzene*	<0.050	0.050	04/01/2014	ND	2.13	106	2.00	8.60	
Total Xylenes*	<0.150	0.150	04/01/2014	ND	6.26	104	6.00	7.23	
Total BTEX	<0.300	0.300	04/01/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 89.4-126

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	04/02/2014	ND	400	100	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	04/01/2014	ND	208	104	200	5.39	
DRO >C10-C28	<10.0	10.0	04/01/2014	ND	217	109	200	2.49	

Surrogate: 1-Chlorooctane 95.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.6 % 63.6-154

**Sample ID: SP 1 @ 4' (H400930-02)**

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	04/02/2014	ND	400	100	400	3.92	

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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:	03/28/2014	Sampling Date:	03/20/2014
Reported:	04/04/2014	Sampling Type:	Soil
Project Name:	CORRAL DRAW #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SP 1 @ 8' (H400930-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	04/02/2014	ND	400	100	400	3.92	

**Sample ID: SP 1 @ 12' (H400930-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	04/02/2014	ND	400	100	400	3.92	

**Sample ID: SP 1 @ 18' (H400930-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	04/02/2014	ND	400	100	400	3.92	

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**Analytical Results For:**

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

Received:	03/28/2014	Sampling Date:	03/24/2014
Reported:	04/04/2014	Sampling Type:	Soil
Project Name:	CORRAL DRAW #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SP 2 @ 1' (H400930-06)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2014	ND	2.28	114	2.00	8.45	
Toluene*	<0.050	0.050	04/01/2014	ND	2.18	109	2.00	8.38	
Ethylbenzene*	<0.050	0.050	04/01/2014	ND	2.13	106	2.00	8.60	
Total Xylenes*	<0.150	0.150	04/01/2014	ND	6.26	104	6.00	7.23	
Total BTEx	<0.300	0.300	04/01/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	04/02/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/01/2014	ND	208	104	200	5.39	
DRO >C10-C28	<10.0	10.0	04/01/2014	ND	217	109	200	2.49	

Surrogate: 1-Chlorooctane 93.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.0 % 63.6-154

**Sample ID: SP 2 @ 4' (H400930-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	04/02/2014	ND	400	100	400	3.92	

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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: 03/28/2014  
Reported: 04/04/2014  
Project Name: CORRAL DRAW #2  
Project Number: NONE GIVEN  
Project Location: MALAGA, NM

Sampling Date: 03/24/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 8' (H400930-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	04/02/2014	ND	400	100	400	3.92	

**Sample ID: SP 2 @ 12' (H400930-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	04/02/2014	ND	400	100	400	3.92	

**Sample ID: SP 2 @ 18' (H400930-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	04/02/2014	ND	400	100	400	3.92	

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Fax To: (575) 397-0397

Received:	03/28/2014	Sampling Date:	03/24/2014
Reported:	04/04/2014	Sampling Type:	Soil
Project Name:	CORRAL DRAW #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SP3 @ 1' (H400930-11)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2014	ND	2.28	114	2.00	8.45	
Toluene*	<0.050	0.050	04/01/2014	ND	2.18	109	2.00	8.38	
Ethylbenzene*	<0.050	0.050	04/01/2014	ND	2.13	106	2.00	8.60	
Total Xylenes*	<0.150	0.150	04/01/2014	ND	6.26	104	6.00	7.23	
Total BTEx	<0.300	0.300	04/01/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	40000	16.0	04/02/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/01/2014	ND	208	104	200	5.39	
DRO >C10-C28	<10.0	10.0	04/01/2014	ND	217	109	200	2.49	

Surrogate: 1-Chlorooctane 91.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 89.4 % 63.6-154

**Sample ID: SP3 @ 4' (H400930-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10100	16.0	04/02/2014	ND	400	100	400	3.92	

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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: 03/28/2014  
Reported: 04/04/2014  
Project Name: CORRAL DRAW #2  
Project Number: NONE GIVEN  
Project Location: MALAGA, NM

Sampling Date: 03/25/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP3 @ 8' (H400930-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	04/02/2014	ND	400	100	400	3.92	

**Sample ID: SP3 @ 12' (H400930-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	04/02/2014	ND	400	100	400	3.92	

**Sample ID: SP3 @ 16' (H400930-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/02/2014	ND	400	100	400	3.92	

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Fax To: (575) 397-0397

Received:	03/28/2014	Sampling Date:	03/25/2014
Reported:	04/04/2014	Sampling Type:	Soil
Project Name:	CORRAL DRAW #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SP4 @ 1' (H400930-16)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2014	ND	2.64	132	2.00	4.76		
Toluene*	<0.050	0.050	04/02/2014	ND	2.55	128	2.00	5.08		
Ethylbenzene*	<0.050	0.050	04/02/2014	ND	2.51	126	2.00	4.96		
Total Xylenes*	<0.150	0.150	04/02/2014	ND	7.31	122	6.00	5.65		
Total BTX	<0.300	0.300	04/02/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4880	16.0	04/02/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/01/2014	ND	208	104	200	5.39	
DRO >C10-C28	<10.0	10.0	04/01/2014	ND	217	109	200	2.49	

Surrogate: 1-Chlorooctane 82.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 76.1 % 63.6-154

**Sample ID: SP4 @ 4' (H400930-17)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10300	16.0	04/02/2014	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 03/28/2014  
Reported: 04/04/2014  
Project Name: CORRAL DRAW #2  
Project Number: NONE GIVEN  
Project Location: MALAGA, NM

Sampling Date: 03/25/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP4 @ 8' (H400930-18)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	04/02/2014	ND	400	100	400	3.92	

**Sample ID: SP4 @ 12' (H400930-19)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	04/02/2014	ND	400	100	400	3.92	

**Sample ID: SP4 @ 18' (H400930-20)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	04/02/2014	ND	400	100	400	3.92	

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

Received:	03/28/2014	Sampling Date:	03/26/2014
Reported:	04/04/2014	Sampling Type:	Soil
Project Name:	CORRAL DRAW #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SP5 @ 1' (H400930-21)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2014	ND	2.64	132	2.00	4.76		
Toluene*	<0.050	0.050	04/02/2014	ND	2.55	128	2.00	5.08		
Ethylbenzene*	<0.050	0.050	04/02/2014	ND	2.51	126	2.00	4.96		
Total Xylenes*	<0.150	0.150	04/02/2014	ND	7.31	122	6.00	5.65		
Total BTEX	<0.300	0.300	04/02/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2000	16.0	04/02/2014	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/01/2014	ND	208	104	200	5.39	
DRO >C10-C28	<10.0	10.0	04/01/2014	ND	217	109	200	2.49	

Surrogate: 1-Chlorooctane 95.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.1 % 63.6-154

**Sample ID: SP5 @ 4' (H400930-22)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8640	16.0	04/02/2014	ND	432	108	400	0.00	

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

Received: 03/28/2014  
Reported: 04/04/2014  
Project Name: CORRAL DRAW #2  
Project Number: NONE GIVEN  
Project Location: MALAGA, NM

Sampling Date: 03/26/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP5 @ 8' (H400930-23)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	992	16.0	04/02/2014	ND	432	108	400	0.00		

**Sample ID: SP5 @ 12' (H400930-24)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	04/02/2014	ND	432	108	400	0.00	

**Sample ID: SP5 @ 15' (H400930-25)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/02/2014	ND	432	108	400	0.00	

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Received: 03/28/2014  
Reported: 04/04/2014  
Project Name: CORRAL DRAW #2  
Project Number: NONE GIVEN  
Project Location: MALAGA, NM

Sampling Date: 03/26/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP6 @ 1' (H400930-26)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2014	ND	2.64	132	2.00	4.76		
Toluene*	<0.050	0.050	04/02/2014	ND	2.55	128	2.00	5.08		
Ethylbenzene*	<0.050	0.050	04/02/2014	ND	2.51	126	2.00	4.96		
Total Xylenes*	<0.150	0.150	04/02/2014	ND	7.31	122	6.00	5.65		
Total BTEX	<0.300	0.300	04/02/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	04/02/2014	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/01/2014	ND	208	104	200	5.39	
DRO >C10-C28	<10.0	10.0	04/01/2014	ND	217	109	200	2.49	

Surrogate: 1-Chlorooctane 99.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.0 % 63.6-154

**Sample ID: SP6 @ 4' (H400930-27)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8200	16.0	04/02/2014	ND	432	108	400	0.00	

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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:	03/28/2014	Sampling Date:	03/26/2014
Reported:	04/04/2014	Sampling Type:	Soil
Project Name:	CORRAL DRAW #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SP6 @ 8' (H400930-28)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	04/02/2014	ND	432	108	400	0.00	

**Sample ID: SP6 @ 12' (H400930-29)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	04/02/2014	ND	432	108	400	0.00	

**Sample ID: SP6 @ 15' (H400930-30)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/02/2014	ND	432	108	400	0.00	

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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:	03/28/2014	Sampling Date:	03/27/2014
Reported:	04/04/2014	Sampling Type:	Soil
Project Name:	CORRAL DRAW #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SP7 @ 1' (H400930-31)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/02/2014	ND	2.64	132	2.00	4.76		
Toluene*	<0.050	0.050	04/02/2014	ND	2.55	128	2.00	5.08		
Ethylbenzene*	<0.050	0.050	04/02/2014	ND	2.51	126	2.00	4.96		
Total Xylenes*	<0.150	0.150	04/02/2014	ND	7.31	122	6.00	5.65		
Total BTEX	<0.300	0.300	04/02/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	04/02/2014	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/01/2014	ND	208	104	200	5.39	
DRO >C10-C28	<10.0	10.0	04/01/2014	ND	217	109	200	2.49	

Surrogate: 1-Chlorooctane 108 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

**Sample ID: SP7 @ 4' (H400930-32)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9600	16.0	04/02/2014	ND	432	108	400	0.00		

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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: 03/28/2014  
Reported: 04/04/2014  
Project Name: CORRAL DRAW #2  
Project Number: NONE GIVEN  
Project Location: MALAGA, NM

Sampling Date: 03/27/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP7 @ 8' (H400930-33)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12800	16.0	04/02/2014	ND	432	108	400	0.00		

**Sample ID: SP7 @ 12' (H400930-34)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11000	16.0	04/02/2014	ND	432	108	400	0.00	

**Sample ID: SP7 @ 18' (H400930-35)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12200	16.0	04/02/2014	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

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

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Celey D. Keene, Lab Director/Quality Manager



**ARDINAL LABORATORIES**

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

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

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name:

Project Location:

Sample Name:

P.O. #:

Company:

Attn:

Address:

City:

State:

Phone #:

Fax #:

**BILL TO**

**ANALYSIS REQUEST**

Lab I.D.

Sample I.D.

HHDO93D

SP1E1

04

08

012

SP2E1

04

08

012

018

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

CL-  
TPH  
BTX

Relinquished By:

Relinquished By:

Date:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

Cool ☒ Intact ☒

No ☐ No ☐

CHECKED BY:

(Initials)

REMARKS:

Phone Result:

Fax Result:

Yes ☐ No ☐

Yes ☐ No ☐

Add'l Phone #:

Add'l Fax #:

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





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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 18 of 20



**ARDINAL LABORATORIES**

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3/4

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name:

Project Location:

Sample Name:

P.O. #:

Company:

Attn:

Address:

City:

State:

Phone #:

Fax #:

**BILL TO**

**ANALYSIS REQUEST**

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME	CL-TPH-BTEX
H008930	SP5001	G	1	GROUNDWATER			3-26	840	
92	004	G	1	WASTEWATER				915	
93	008	G	1	SOIL				1005	
94	012	G	1	OIL				1100	
95	015	G	1	SLUDGE				1148	
96	019	G	1	OTHER:				1259	
97	024	G	1	ACID/BASE:				115	
98	028	G	1	ICE / COOL				141	
99	012	G	1	OTHER:				212	
99	015	G	1					300	

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Relinquished By:

Date: 3/20/14

Time:

Received By:

Time:

Phone Result:

Yes ☐ No ☐

Add'l Phone #:

Add'l Fax #:

Relinquished By:

Date:

Time:

Received By:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

Cool ☐ Intact ☐

CHECKED BY:

Initials

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~~1/4~~

Page 20 of 20

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

---

July 10, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CORRAL DRAW #2

Enclosed are the results of analyses for samples received by the laboratory on 07/07/14 10:17.

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, flowing 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:	07/07/2014	Sampling Date:	07/01/2014
Reported:	07/10/2014	Sampling Type:	Soil
Project Name:	CORRAL DRAW #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SB 1 @ 18' (H402044-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	07/09/2014	ND	400	100	400	0.00	

**Sample ID: SB 1 @ 25' (H402044-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	07/09/2014	ND	400	100	400	0.00	

**Sample ID: SB 1 @ 30' (H402044-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	07/09/2014	ND	400	100	400	0.00	

**Sample ID: SB 1 @ 35' (H402044-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	07/09/2014	ND	400	100	400	0.00	

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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:	07/07/2014	Sampling Date:	07/01/2014
Reported:	07/10/2014	Sampling Type:	Soil
Project Name:	CORRAL DRAW #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

**Sample ID: SB 1 @ 43' (H402044-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	07/09/2014	ND	400	100	400	0.00	

**Sample ID: SB 1 @ 51' (H402044-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	07/09/2014	ND	400	100	400	0.00	

**Sample ID: SB 1 @ 54' (H402044-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/09/2014	ND	400	100	400	0.00	

**Sample ID: SB 1 @ 56' (H402044-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/09/2014	ND	400	100	400	0.00	

**Sample ID: SB 2 @ 23' (H402044-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7120	16.0	07/09/2014	ND	400	100	400	0.00	

Cardinal Laboratories

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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: 07/07/2014  
Reported: 07/10/2014  
Project Name: CORRAL DRAW #2  
Project Number: NONE GIVEN  
Project Location: MALAGA, NM

Sampling Date: 07/01/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SB 2 @ 28' (H402044-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6960	16.0	07/09/2014	ND	400	100	400	0.00	

**Sample ID: SB 2 @ 33' (H402044-11)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	07/09/2014	ND	400	100	400	0.00	

**Sample ID: SB 2 @ 38' (H402044-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	07/10/2014	ND	416	104	400	3.92	

**Sample ID: SB 2 @ 43' (H402044-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	07/10/2014	ND	416	104	400	3.92	

**Sample ID: SB 2 @ 46' (H402044-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/10/2014	ND	416	104	400	3.92	

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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: 07/07/2014  
Reported: 07/10/2014  
Project Name: CORRAL DRAW #2  
Project Number: NONE GIVEN  
Project Location: MALAGA, NM

Sampling Date: 07/01/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SB 3 @ 23' (H402044-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	07/10/2014	ND	416	104	400	3.92	

**Sample ID: SB 3 @ 28' (H402044-16)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	07/10/2014	ND	416	104	400	3.92	

**Sample ID: SB 3 @ 33' (H402044-17)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	07/10/2014	ND	416	104	400	3.92	

**Sample ID: SB 3 @ 38' (H402044-18)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	07/10/2014	ND	416	104	400	3.92		

**Sample ID: SB 3 @ 40' (H402044-19)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/10/2014	ND	416	104	400	3.92	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

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

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]





## Kathy Purvis

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**From:** Patterson, Heather, EMNRD <Heather.Patterson@state.nm.us>  
**Sent:** Thursday, September 18, 2014 9:16 AM  
**To:** cbrunson@bbcinternational.com  
**Cc:** Bratcher, Mike, EMNRD; C J Summers; kswinney@bbcinternational.com; Kathy Purvis  
**Subject:** RE: OXY-Corral Draw #2 - Remediation Plan

RE: Oxy \* Corral Draw #2 \* 30-015-21425 \* 2RP-2208

Cliff,

This Remediation Plan is approved as written.

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.

Heather Patterson  
Environmental Specialist  
NMOCD District II  
(575)748-1283 ext.101

---

**From:** Bratcher, Mike, EMNRD  
**Sent:** Tuesday, September 16, 2014 2:04 PM  
**To:** Patterson, Heather, EMNRD  
**Subject:** FW: OXY-Corral Draw #2 - Remediation Plan

---

**From:** Cliff P. Brunson [<mailto:cbrunson@bbcinternational.com>]  
**Sent:** Thursday, August 28, 2014 11:57 AM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** OXY-Corral Draw #2 - Remediation Plan

Mike,

This e-mail is to confirm our conversation on August 11, 2014 about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. As discussed, Oxy will excavate to a depth of 4 feet across the entire leak area outside of the lined battery. In the areas around SP1, SP2, SB1, SP4, SB3, SP7, and SB2, a liner will be placed in the bottom of the excavations. All of these areas are depicted on the attached site diagram. The liner inside the battery will be cleaned as well. Then the site will then be backfilled with clean soil.

If you would please e-mail your concurrence with this remediation plan, it would be greatly 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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## Kathy Purvis

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**From:** Hughes, Solomon <shughes@blm.gov>  
**Sent:** Friday, August 29, 2014 12:03 PM  
**To:** Cliff P. Brunson  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** Re: OXY-Corral Draw #2 - Remediation Plan

Cliff,

This plan is approved as written.

Sol

### Sol Hughes

Environmental Protection Division  
Bureau of Land Management  
620 E. Greene St  
Carlsbad, NM

Office: 575.234.5951  
Cell: 575.499.3378

On Thu, Aug 28, 2014 at 11:59 AM, Cliff P. Brunson <[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)> wrote:  
Sol,

This e-mail is to request the BLM's approval for the following remediation plan for the above referenced site. I have attached the materials that pertain to the site and the plan. This plan has already been approved by Mike Bratcher of the NMOCD. Oxy will excavate to a depth of 4 feet across the entire leak area outside of the lined battery. In the areas around SP1, SP2, SB1, SP4, SB3, SP7, and SB2, a liner will be placed in the bottom of the excavations. All of these areas are depicted on the attached site diagram. The liner inside the battery will be cleaned as well. Then the site will then be backfilled with clean soil.

If you would please e-mail your concurrence with this remediation plan, it would be greatly appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS  
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