

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	MLMU #247	Facility Type	Well location
Surface Owner	BLM	Mineral Owner	API No. 30-025-11044

### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	7	24S	37E	550	South	660	East	Lea

Latitude N 32.23288° Longitude W 103.20615°

### NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	30 bbls	Volume Recovered	0 bbls
Source of Release	Flow line leak	Date and Hour of Occurrence	07/15/2013	Date and Hour of Discovery	07/15/2013
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Geoffrey Leking-NMOCD; Jennifer Van Curen, James Amos- BLM		
By Whom?	Chancey Summers	Date and Hour	07/15/2013 @ 10:17 am		
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.\*

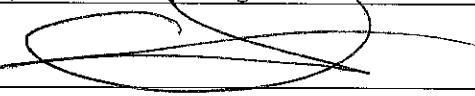
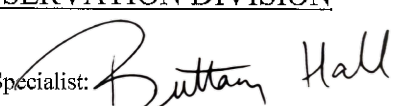
Describe Cause of Problem and Remedial Action Taken.\*

A leak in a flow line caused 30 bbls of produced water to leak onto the ground. No fluids were recovered and the line was repaired.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 140' x 40'. Remediation was completed in accordance with the remediation plan approved by Geoffrey Leking of NMOCD via email on 10/03/2013 and approved by Jennifer Van Curen of the BLM via email on 10/06/2013.

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: 4/10/2023	Expiration Date: N/A
E-mail Address: Chancey.Summers@oxy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 3.5.14 Phone: (575) 397-8216	None	

\* Attach Additional Sheets If Necessary

# Closure Report

## Site Description

Site Name:	MLMU #247
Company:	Oxy Permian Ltd.
Legal Description:	U/L P, Section 7, T24S, R37E
County:	Lea County, NM
GPS Coordinates:	N 32.22630° W 103.19612°

## Release Data

Date of Release:	04/07/2016
Type of Release:	Oil and produced water
Source of Release:	Compromised 2" steel production flow line
Volume of Release:	3 bbls oil, 7 bbls produced water
Volume Recovered:	0 bbls

## Remediation Specifications

Remediation Parameters:	Excavate the area around SP1 to a depth of 1.5 ft. Obtain a bottom confirmation sample at the southern base of that area. Excavate the areas around SP2 & SP3 to a depth of 3 ft. Obtain bottom confirmation samples at both. Excavate the area around SP4 to 4 ft and place a liner in the excavation . Obtain cardinal sample points.	
Remediation Activities:	09/01/2017 to 09/12/2017	
Plan Sent to OCD:	01/28/2017	Email from Cliff Brunson to Kristen Lynch
OCD Approval of Plan:	03/01/2017	Email from Olivia Yu to Cliff Brunson
Plan Sent to BLM:	n/a	n/a
BLM Approval of Plan:	n/a	n/a

## Supporting Documentation

Initial C-141	Signed 04/11/2016
Final C-141	Upon completion
Site Diagram	April 2016
Groundwater Plot	100'-125'
TOPO Maps	April 2016
Lab Summary	04/14/2016-04/15/2016, 10/20/2016, and 09/08/2017
Lab Analysis	04/14/2016-04/15/2016, 10/20/2016, and 09/08/2017
Correspondence	Request and approval of remediation plan via email

## Request for Closure

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

Cliff Brunson, President of BBC International Inc.

10/11/2017

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Energy Minerals and Natural Resources  
Oil Conservation Division  
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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	Casey Summers
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(575) 513-8289
Facility Name	MLMU #247	Facility Type	Well

Surface Owner	Kelly Myers	Mineral Owner		API No.	30-025-11044
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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
P	7	24S	37E					Lea County, NM

Latitude N 32.22625° Longitude W 103.19567°

NATURE OF RELEASE

Type of Release	Oil and produced water	Volume of Release	3 bbls oil, 7 bbls produced water	Volume Recovered	0 bbls
Source of Release	Compromised 2" steel production flow line	Date and Hour of Occurrence	04/07/2016	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Jamie Keyes-NMOCD		
By Whom?	Kathy Purvis @ BBC International	Date and Hour	04/07/2016 @ 4:07 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.\*

A compromised 2" steel production flow line leaked 3 bbls of oil and 7 bbls of produced water. No fluids were recovered and the line was repaired/replaced.

Describe Area Affected and Cleanup Action Taken.\*

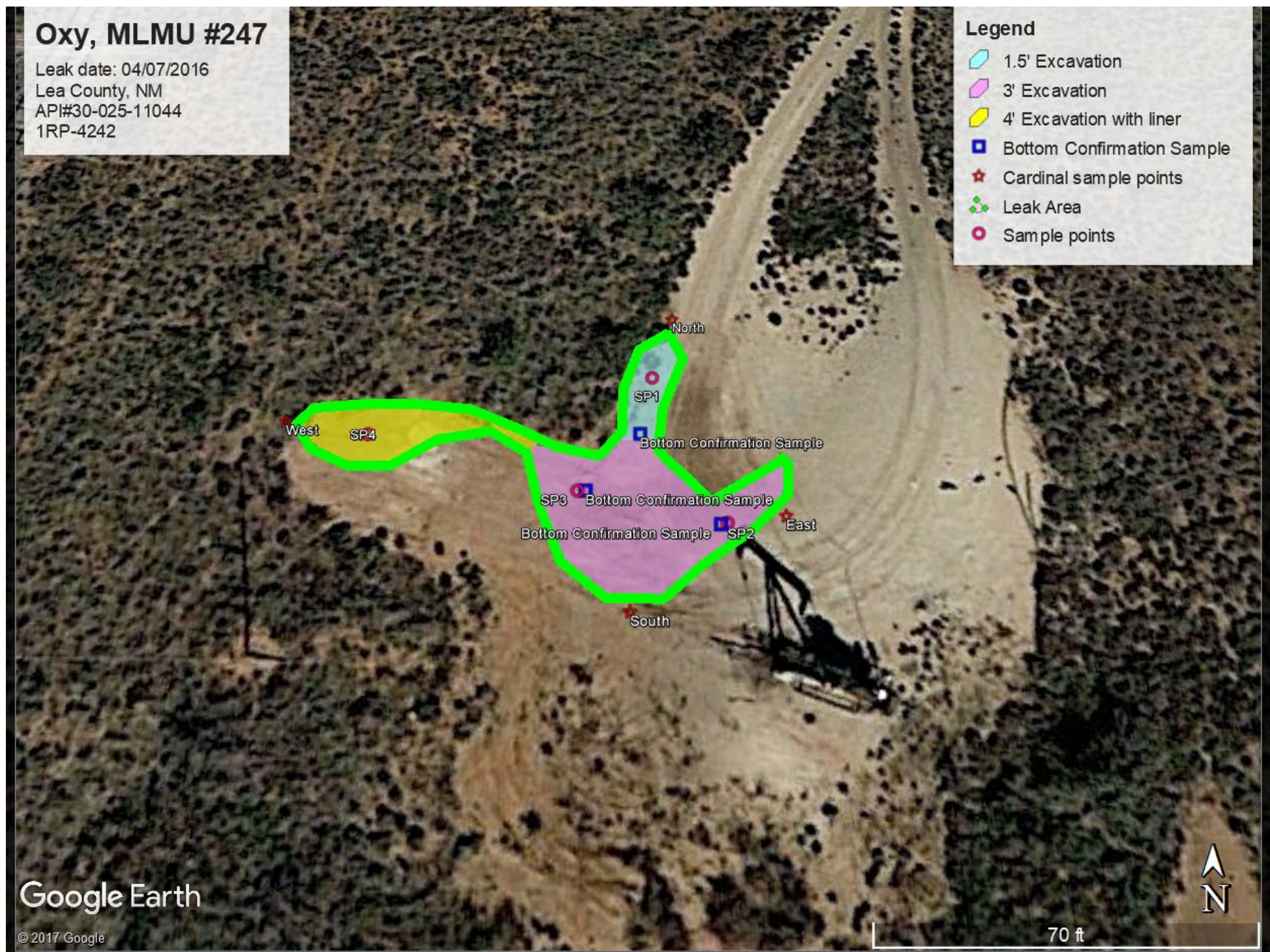
The affected area is approximately 12' x 25' both on and off location about 45' west of the wellhead. Remediation will be completed in accordance with a remediation plan approved by NMOCD.

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: Casey Summers		Approved by Environmental Specialist:	
Title: NM Environmental Advisor		Approval Date:	Expiration Date:
E-mail Address: Casey_Summers@oxy.com		Conditions of Approval:	
Date: 4-11-16 Phone: (575) 513-8289		Attached <input type="checkbox"/>	

Attach Additional Sheets If Necessary







Oxy, MLMU #247

Sample points, hand auger

SP1, N 32.22638 W-103.19569

SP2, N 32.22628 W-103.19564

SP3, N 32.22630 W-103.19574

SP4, N 32.22634 W-103.19589

NORTH, N 32.22643 W-103.19568

SOUTH, N 32.22623 W-103.19571

EAST, N 32.22629 W-103.19560

WEST, N 32.22635 W-103.19595



**Oxy, MLMU #247**  
**U/L P, Section 7, T24S, R37E**  
**Groundwater: 100-125'**



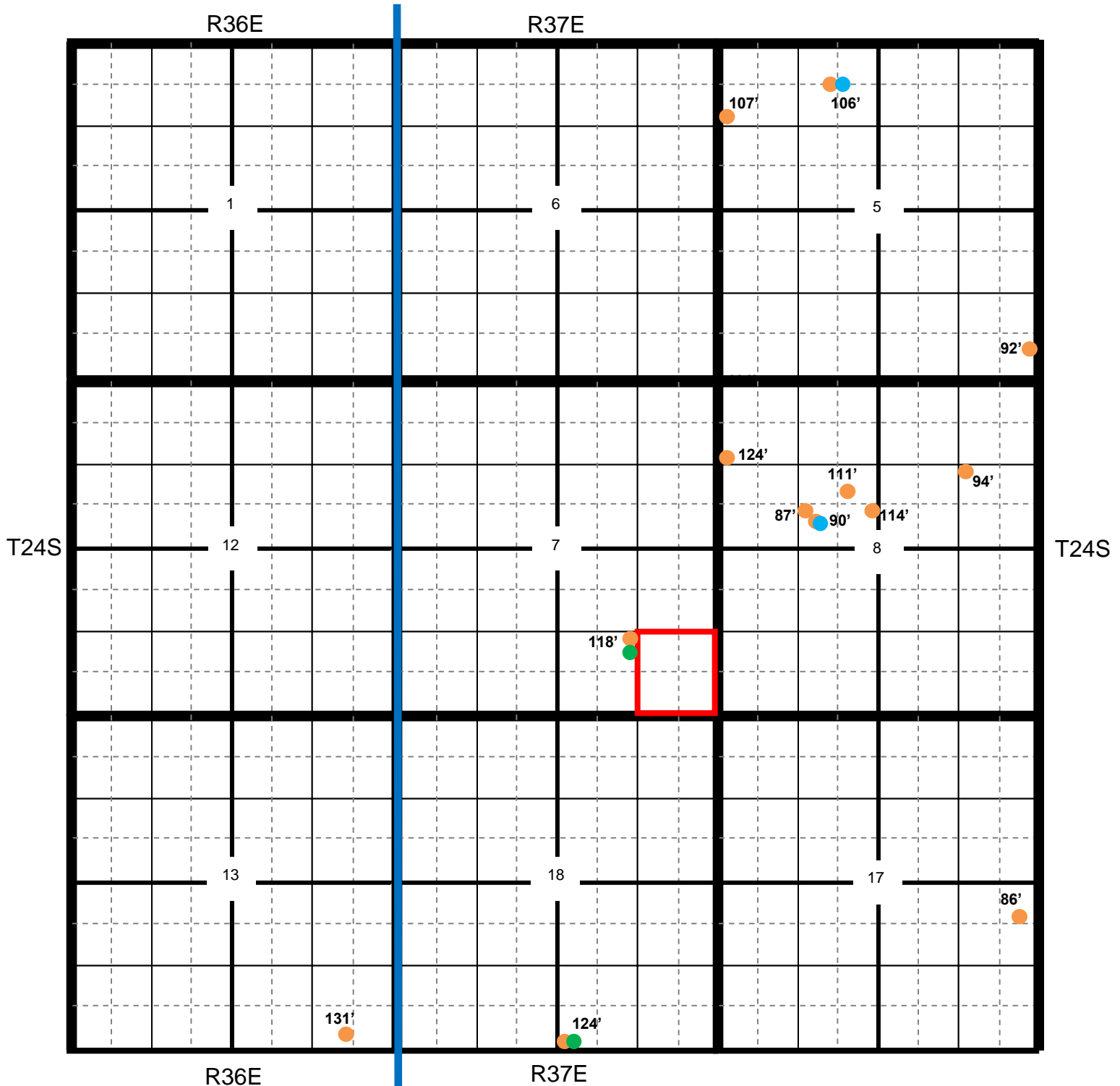


## Groundwater Plot

Oxy MLMU #247

County  
Lea CountyUnit Letter  
PSection  
7Township  
24SRange  
37E

Trend Map 100'



\* Location

OCD

USGS

SEO

All Databases





## Section Quarters

## Oxy MLMU #247

<b>County</b>	<b>Unit Letter</b>	<b>Section</b>	<b>Township</b>	<b>Range</b>
Lea County	P	7	24S	37E

Trend Map 100'

1

2

NW/NW	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 ● 118'	SE/SE
Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P

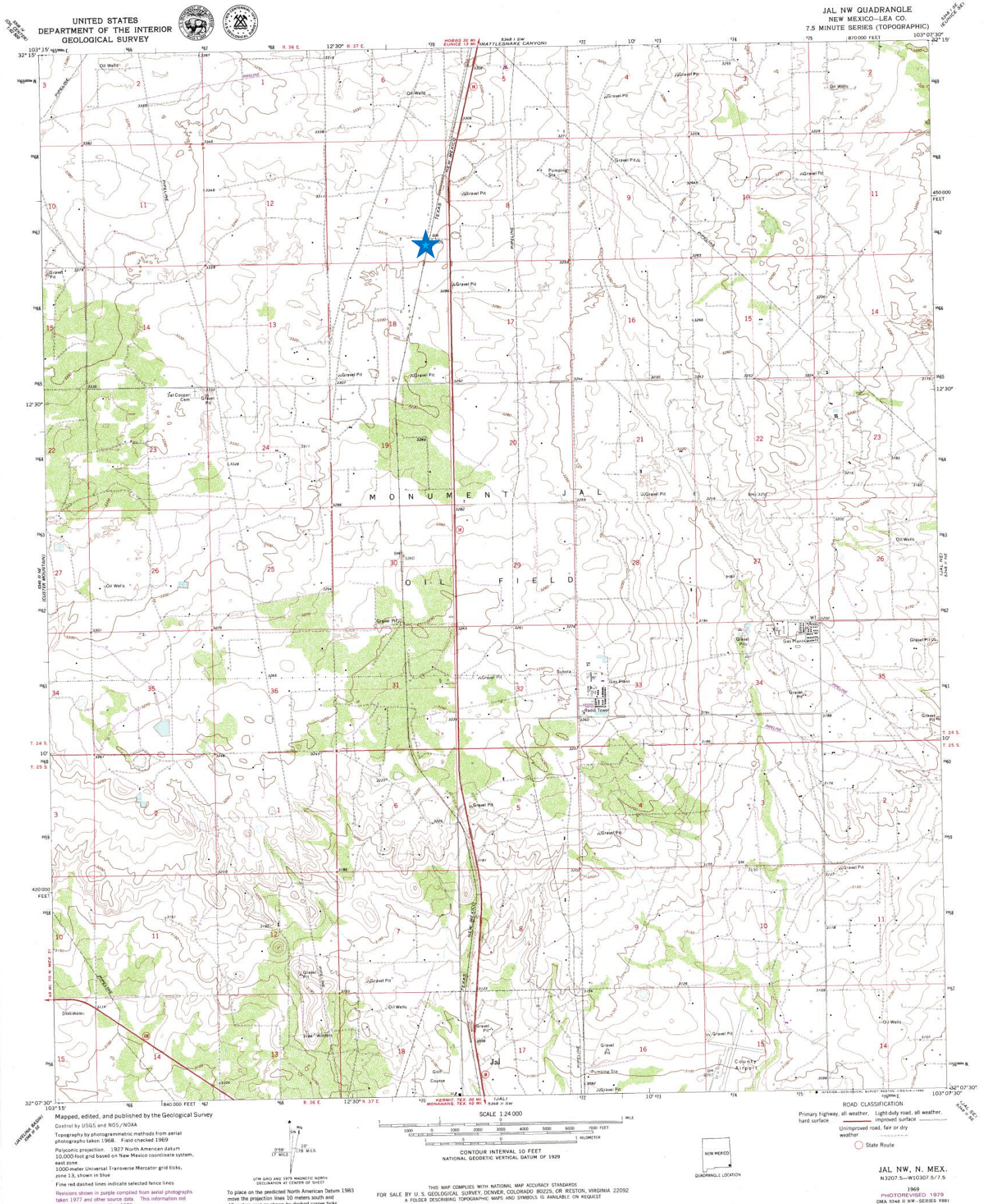
3

4

● Location   
 ● OCD   
 ● USGS   
 ● SEO   
 ● All Databases

Oxy

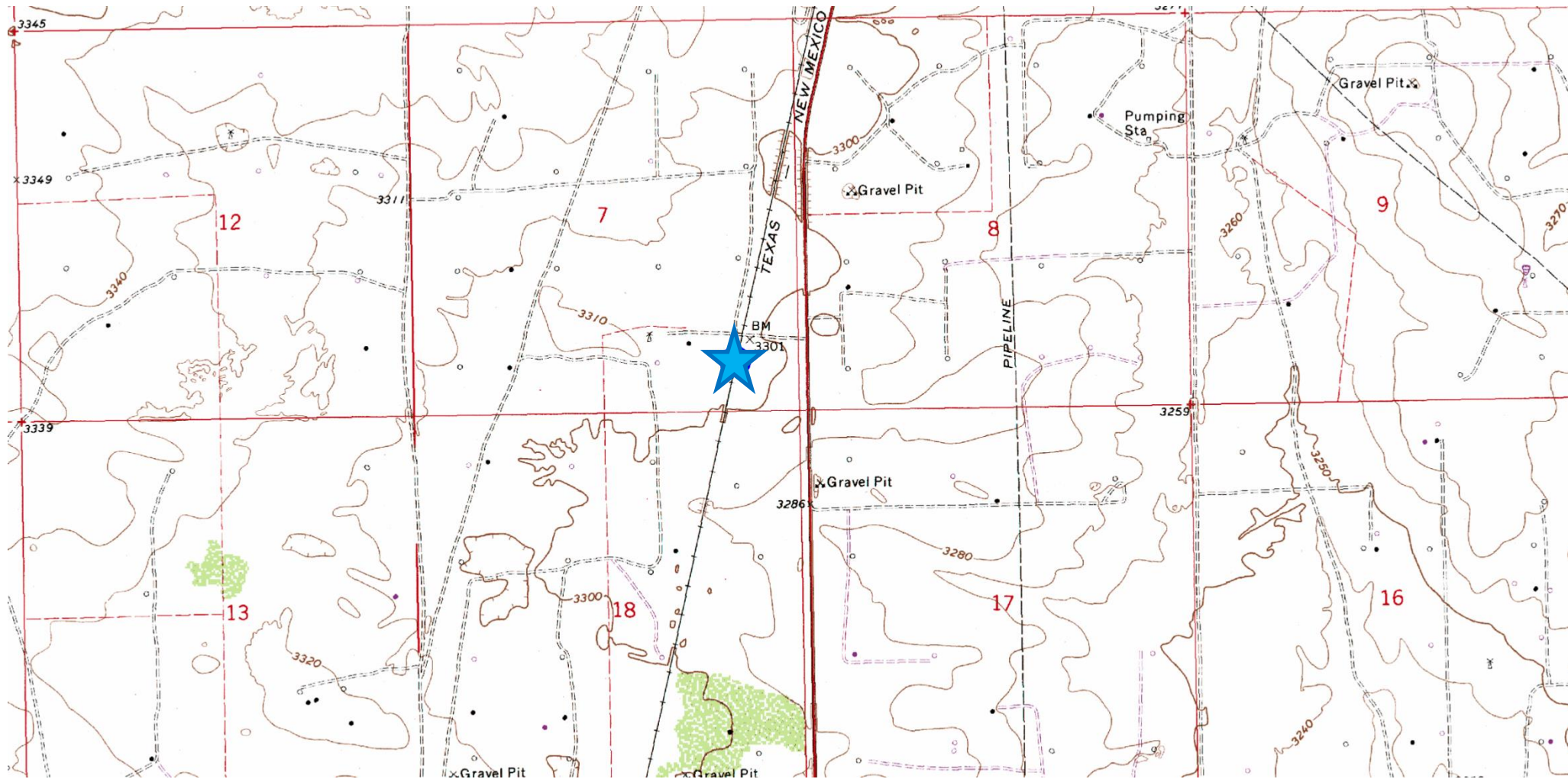
## MLMU #247





Oxy

MLMU #247



**Laboratory Analytical Results Summary  
MLMU #247**

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'
Analyte	Method	Date	4/14/16	4/14/16	4/14/16	4/14/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		1440	80	80	16
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a	n/a

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'
Analyte	Method	Date	4/14/16	4/14/16	4/14/16	4/14/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		1200	1420	640	96
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		14.1	<10.0	n/a	n/a

		Sample	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'	SP3 @ 6'	SP3 @ 7'	SP3 @ 8'	SP3 @ 9'	SP3 @ 10'
Analyte	Method	Date	4/14/16	4/14/16	4/14/16	4/14/16	4/15/16	4/15/16	10/20/16	10/20/16	10/20/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		1300	176	752	256	640	592	480	512	32
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a

		Sample	SP4 @ 1'	SP4 @ 3'	SP4 @ 5'	SP4 @ 7'	SP4 @ 9'	SP4 @ 10'	SP4 @ 11'	SP4 @ 16'	SP4 @ 20'	SP4 @ 30'	SP4 @ 35'	SP4 @ 40'	SP4 @ 41'	SP4 @ 42'
Analyte	Method	Date	4/15/16	4/15/16	4/15/16	4/15/16	4/15/16	4/15/16	10/20/16	10/20/16	10/20/16	10/20/16	10/20/16	10/20/16	10/20/16	10/20/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		1310	2080	1360	2000	1800	1880	928	1280	1640	1010	400	288	288	256
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a



**Laboratory Analytical Results Summary  
MLMU #247**

<b>CONFIRMATION</b>		Sample	SP1 @ BOTTOM	SP2 @ BOTTOM	SP3 @ BOTTOM
Analyte	Method	Date	9/8/17	9/8/17	9/8/17
			mg/Kg	mg/Kg	mg/Kg
<b>Chloride</b>	SM4500Cl-B		<b>112</b>	<b>80</b>	<b>80</b>

<b>CONFIRMATION</b>		Sample	NORTH	EAST	WEST	SOUTH
Analyte	Method	Date	9/8/17	9/8/17	9/8/17	9/8/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
<b>Chloride</b>	SM4500Cl-B		<b>32</b>	<b>&lt;16.0</b>	<b>16</b>	<b>16</b>



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

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April 26, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MLMU #247

Enclosed are the results of analyses for samples received by the laboratory on 04/21/16 8:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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 with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/21/2016  
 Reported: 04/26/2016  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

Sampling Date: 04/14/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SB 1 @ 1' (H600863-01)**

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	04/22/2016	ND	2.14	107	2.00	2.41	
Toluene*	<0.050	0.050	04/22/2016	ND	2.06	103	2.00	2.59	
Ethylbenzene*	<0.050	0.050	04/22/2016	ND	1.87	93.6	2.00	3.31	
Total Xylenes*	<0.150	0.150	04/22/2016	ND	5.74	95.6	6.00	3.02	
Total BTX	<0.300	0.300	04/22/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1440	16.0	04/22/2016	ND	416	104	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	04/22/2016	ND	188	93.9	200	8.09	
DRO >C10-C28	<10.0	10.0	04/22/2016	ND	217	109	200	11.4	

Surrogate: 1-Chlorooctane 80.9 % 35-147

Surrogate: 1-Chlorooctadecane 86.2 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 04/21/2016  
 Reported: 04/26/2016  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

Sampling Date: 04/14/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SB 1 @ 2' (H600863-02)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2016	ND	2.03	101	2.00	0.809	
Toluene*	<0.050	0.050	04/22/2016	ND	1.96	98.0	2.00	0.581	
Ethylbenzene*	<0.050	0.050	04/22/2016	ND	1.77	88.7	2.00	0.792	
Total Xylenes*	<0.150	0.150	04/22/2016	ND	5.46	90.9	6.00	0.270	
Total BTX	<0.300	0.300	04/22/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/22/2016	ND	416	104	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	04/22/2016	ND	188	93.9	200	8.09	
DRO >C10-C28	<10.0	10.0	04/22/2016	ND	217	109	200	11.4	

Surrogate: 1-Chlorooctane 79.6 % 35-147

Surrogate: 1-Chlorooctadecane 87.0 % 28-171

**Sample ID: SB 1 @ 3' (H600863-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/22/2016	ND	416	104	400	3.92	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 04/21/2016  
 Reported: 04/26/2016  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

Sampling Date: 04/14/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SB 1 @ 4' (H600863-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/22/2016	ND	416	104	400	3.92	

**Sample ID: SB 2 @ 1' (H600863-05)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2016	ND	2.03	101	2.00	0.809	
Toluene*	<0.050	0.050	04/22/2016	ND	1.96	98.0	2.00	0.581	
Ethylbenzene*	<0.050	0.050	04/22/2016	ND	1.77	88.7	2.00	0.792	
Total Xylenes*	<0.150	0.150	04/22/2016	ND	5.46	90.9	6.00	0.270	
Total BTEX	<0.300	0.300	04/22/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1200	16.0	04/22/2016	ND	416	104	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	04/22/2016	ND	188	93.9	200	8.09	
DRO >C10-C28	14.1	10.0	04/22/2016	ND	217	109	200	11.4	

Surrogate: 1-Chlorooctane 91.7 % 35-147

Surrogate: 1-Chlorooctadecane 92.8 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/21/2016  
 Reported: 04/26/2016  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

Sampling Date: 04/14/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SB 2 @ 2' (H600863-06)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2016	ND	2.03	101	2.00	0.809	
Toluene*	<0.050	0.050	04/22/2016	ND	1.96	98.0	2.00	0.581	
Ethylbenzene*	<0.050	0.050	04/22/2016	ND	1.77	88.7	2.00	0.792	
Total Xylenes*	<0.150	0.150	04/22/2016	ND	5.46	90.9	6.00	0.270	
Total BTX	<0.300	0.300	04/22/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1420	16.0	04/22/2016	ND	416	104	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	04/22/2016	ND	188	93.9	200	8.09	
DRO >C10-C28	<10.0	10.0	04/22/2016	ND	217	109	200	11.4	

Surrogate: 1-Chlorooctane 78.6 % 35-147

Surrogate: 1-Chlorooctadecane 82.5 % 28-171

**Sample ID: SB 2 @ 3' (H600863-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	04/22/2016	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/21/2016  
 Reported: 04/26/2016  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

Sampling Date: 04/14/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SB 2 @ 4' (H600863-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/22/2016	ND	416	104	400	3.92	

**Sample ID: SB 3 @ 1' (H600863-09)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2016	ND	2.03	101	2.00	0.809	
Toluene*	<0.050	0.050	04/22/2016	ND	1.96	98.0	2.00	0.581	
Ethylbenzene*	<0.050	0.050	04/22/2016	ND	1.77	88.7	2.00	0.792	
Total Xylenes*	<0.150	0.150	04/22/2016	ND	5.46	90.9	6.00	0.270	
Total BTEX	<0.300	0.300	04/22/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	04/22/2016	ND	416	104	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	04/22/2016	ND	188	93.9	200	8.09	
DRO >C10-C28	<10.0	10.0	04/22/2016	ND	217	109	200	11.4	

Surrogate: 1-Chlorooctane 86.3 % 35-147

Surrogate: 1-Chlorooctadecane 92.9 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/21/2016  
 Reported: 04/26/2016  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

Sampling Date: 04/14/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SB 3 @ 2' (H600863-10)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2016	ND	2.03	101	2.00	0.809	
Toluene*	<0.050	0.050	04/22/2016	ND	1.96	98.0	2.00	0.581	
Ethylbenzene*	<0.050	0.050	04/22/2016	ND	1.77	88.7	2.00	0.792	
Total Xylenes*	<0.150	0.150	04/22/2016	ND	5.46	90.9	6.00	0.270	
Total BTEX	<0.300	0.300	04/22/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/22/2016	ND	416	104	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	04/22/2016	ND	188	93.9	200	8.09	
DRO >C10-C28	<10.0	10.0	04/22/2016	ND	217	109	200	11.4	

Surrogate: 1-Chlorooctane 83.0 % 35-147

Surrogate: 1-Chlorooctadecane 90.2 % 28-171

**Sample ID: SB 3 @ 3' (H600863-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	04/22/2016	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 04/21/2016  
 Reported: 04/26/2016  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

Sampling Date: 04/14/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SB 3 @ 4' (H600863-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	04/22/2016	ND	416	104	400	3.92		

**Sample ID: SB 3 @ 6' (H600863-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	04/22/2016	ND	416	104	400	3.92	

**Sample ID: SB 3 @ 7' (H600863-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	04/22/2016	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/21/2016  
 Reported: 04/26/2016  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

Sampling Date: 04/15/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SB 4 @ 1' (H600863-15)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/22/2016	ND	2.03	101	2.00	0.809		
Toluene*	<0.050	0.050	04/22/2016	ND	1.96	98.0	2.00	0.581		
Ethylbenzene*	<0.050	0.050	04/22/2016	ND	1.77	88.7	2.00	0.792		
Total Xylenes*	<0.150	0.150	04/22/2016	ND	5.46	90.9	6.00	0.270		
Total BTEx	<0.300	0.300	04/22/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1310	16.0	04/22/2016	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	04/22/2016	ND	188	93.9	200	8.09	
DRO >C10-C28	<10.0	10.0	04/22/2016	ND	217	109	200	11.4	

Surrogate: 1-Chlorooctane 94.4 % 35-147

Surrogate: 1-Chlorooctadecane 99.0 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/21/2016  
 Reported: 04/26/2016  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

Sampling Date: 04/15/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SB 4 @ 3' (H600863-16)**

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	04/22/2016	ND	2.03	101	2.00	0.809	
Toluene*	<0.050	0.050	04/22/2016	ND	1.96	98.0	2.00	0.581	
Ethylbenzene*	<0.050	0.050	04/22/2016	ND	1.77	88.7	2.00	0.792	
Total Xylenes*	<0.150	0.150	04/22/2016	ND	5.46	90.9	6.00	0.270	
Total BTX	<0.300	0.300	04/22/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	04/22/2016	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	04/22/2016	ND	188	93.9	200	8.09	
DRO >C10-C28	<10.0	10.0	04/22/2016	ND	217	109	200	11.4	

Surrogate: 1-Chlorooctane 142 % 35-147

Surrogate: 1-Chlorooctadecane 155 % 28-171

**Sample ID: SB 4 @ 5' (H600863-17)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	04/22/2016	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 04/21/2016  
 Reported: 04/26/2016  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

Sampling Date: 04/15/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SB 4 @ 7' (H600863-18)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	04/22/2016	ND	416	104	400	0.00	

**Sample ID: SB 4 @ 9' (H600863-19)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1800	16.0	04/22/2016	ND	416	104	400	0.00	

**Sample ID: SB 4 @ 10' (H600863-20)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	04/22/2016	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager





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### Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

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

Page 13 of 14

changes. Please fax written changes to 505-393-2476  
corrected - 5.32 #54





## CARDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

242

## BILL TO

## 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:

Sampler Name:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

P.O. #:

Company:

Attn:

Address:

City:

State:

Phone #:

Fax #:

PRESERV

SAMPLING

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

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October 27, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MLMU #247

Enclosed are the results of analyses for samples received by the laboratory on 10/21/16 15:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/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".

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/21/2016  
 Reported: 10/27/2016  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

Sampling Date: 10/20/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 11' (H602379-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	10/24/2016	ND	416	104	400	0.00	

**Sample ID: SP 4 @ 16' (H602379-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	10/24/2016	ND	416	104	400	0.00	

**Sample ID: SP 4 @ 20' (H602379-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1640	16.0	10/24/2016	ND	416	104	400	0.00	

**Sample ID: SP 4 @ 30' (H602379-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	10/24/2016	ND	416	104	400	0.00	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 10/21/2016  
 Reported: 10/27/2016  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

Sampling Date: 10/20/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 35' (H602379-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	10/24/2016	ND	416	104	400	0.00	

**Sample ID: SP 4 @ 40' (H602379-06)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	10/24/2016	ND	416	104	400	0.00	

**Sample ID: SP 4 @ 41' (H602379-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	10/24/2016	ND	416	104	400	0.00	

**Sample ID: SP 4 @ 42' (H602379-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	10/24/2016	ND	416	104	400	0.00		

**Sample ID: SP 3 @ 8' (H602379-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	10/24/2016	ND	416	104	400	0.00	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 10/21/2016  
 Reported: 10/27/2016  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

Sampling Date: 10/20/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 9' (H602379-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	10/24/2016	ND	416	104	400	0.00		

**Sample ID: SP 3 @ 10' (H602379-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/24/2016	ND	416	104	400	0.00	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

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.						<b>BILL TO</b>								<b>ANALYSIS REQUEST</b>						
Project Manager: Cliff Brunson						P.O. #:														
Address: P.O. Box 805						Company:														
City: Hobbs						Attn:														
State: NM Zip: 88241						Address:														
Phone #: 575-397-6388 Fax #: 575-397-0397						City:														
Project #: Project Owner: OXY						State: Zip:														
Project Location:						Fax #:														
Sample Name: Pace Brunson						PRESERV:						SAMPLING								
FOR LAB USE ONLY																				
Lab I.D.						Sample I.D.						(G)RAB OR (C)OMP.								
H1602374						1						# CONTAINERS								
2						GROUNDWATER														
3						WASTEWATER														
4						SOIL														
5						OIL														
6						SLUDGE														
7						OTHER :														
8						ACID/BASE:														
9						ICE / COOL														
10						OTHER :														
DATE						TIME														
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PL EASE NOTE: Liability and Damages. Carding'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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																				
Relinquished By: [Signature]						Date: 10-24-16 Time: 3:00						Received By: [Signature]								
Delivered By: (Circle One)						Date: 10-24-16 Time: 3:45						Received By: [Signature]								
Sampler - UPS - Bus - Other:						Sample Condition Cool Intact Yes No						CHECKED BY: (Initials)								
REMARKS:						Phone Result: Yes No Add'l Phone #: Fax Result: Yes No Add'l Fax #:														





## ORDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

---

September 11, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MLMU #247

Enclosed are the results of analyses for samples received by the laboratory on 09/08/17 16:06.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/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 with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received:	09/08/2017	Sampling Date:	09/08/2017
Reported:	09/11/2017	Sampling Type:	Soil
Project Name:	MLMU #247	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	JAL, NEW MEXICO		

**Sample ID: SP 1 @ BOTTOM (H702396-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	09/11/2017	ND	416	104	400	0.00	

**Sample ID: SP 2 @ BOTTOM (H702396-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/11/2017	ND	416	104	400	0.00	

**Sample ID: SP 3 @ BOTTOM (H702396-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/11/2017	ND	416	104	400	0.00	

**Sample ID: NORTH (H702396-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/11/2017	ND	416	104	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 09/08/2017  
 Reported: 09/11/2017  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

Sampling Date: 09/08/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: EAST (H702396-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/11/2017	ND	416	104	400	0.00		

**Sample ID: WEST (H702396-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/11/2017	ND	416	104	400	0.00	

**Sample ID: SOUTH (H702396-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/11/2017	ND	416	104	400	0.00	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

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### Notes and Definitions

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

---

Cardinal Laboratories

\*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "C. D. Keene", is written over a horizontal line.

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

1681

Company Name: BBC International, Inc.		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																							
Project Manager: Cliff Brunson		P.O. #:																									
Address: P.O. Box 805		Company:																									
City: Hobbs		Attn:																									
Phone #: 575-397-6388		Address:																									
Fax #: 575-397-0397		City:																									
Project #: Project Owner: OKY		State:																									
Project Name: McMill # 247		Zip:																									
Project Location:		Phone #:																									
Sampler Name: RDPH HARRIS		Fax #:																									
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV	SAMPLING																		
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME													
H702396	SP 1 @ Bottom		1										9-8-17	100	✓												
	SP 2 @ Bottom		1										9-8-17	105	✓												
	SP 3 @ Bottom		1										9-8-17	110	✓												
	NO. 74		1										9-8-17	200	✓												
	EAST		1										9-8-17	205	✓												
	WEST		1										9-8-17	210	✓												
	SOUTH		1										9-8-17	215	✓												

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Reinquired By: [Signature]	Date: 9-8-17	Received By: Holly Curshaw	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: [Signature]	Date: 4-10-20	Received By: [Signature]	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
REMARKS: RVSH ii				

Delivered By: (Circle One) 25.3°C / 25.55°C

Sampler - UPS - Bus - Other: [ ]

Sample Condition Cool Intact- Yes ☒ No ☐

CHECKED BY: (Initials) HC

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

Corrected + 25.5°C

**From:** Yu, Olivia, EMNRD  
**To:** [cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com); [Casey\\_Summers@oxy.com](mailto:Casey_Summers@oxy.com); [Jennifer\\_Hudgens@oxy.com](mailto:Jennifer_Hudgens@oxy.com)  
**Cc:** [Oberding.Tomas.EMNRD](mailto:Oberding.Tomas.EMNRD); [kswinney@bbcinternational.com](mailto:kswinney@bbcinternational.com); [Kathy\\_Purvis](mailto:Kathy_Purvis); [jgilkey@bbcinternational.com](mailto:jgilkey@bbcinternational.com)  
**Subject:** RE: OXY - MLMU #247 - Remediation Plan  
**Date:** Wednesday, March 1, 2017 1:54:26 PM

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Dear Mr. Brunson:

The delineation report for 1RP-4242 is approved with these conditions. Please confirm.

1. SP1 can be excavated to 1.5 ft. bgs. Please obtain bottom confirmation samples at the base of SP1 area, where the offshoot meets SP2 and SP3 region.
2. Excavate area of SP2 and SP3 to 3 ft. bgs. Chlorides at SP3 fluctuates and a current search of depth to groundwater on OSE's database indicate the water table at 90 ft. bgs. Obtain bottom confirmation samples.
3. Based on chloride levels for SP4, complete horizontal delineation is required. At a minimum, two other soil sample locations are needed: 1 West and 1 East of SP4.
4. Is the liner proposed only for the SP4 area?

Thanks,

Olivia Yu  
Environmental Specialist  
NMOCD, District I  
[Olivia.yu@state.nm.us](mailto:Olivia.yu@state.nm.us)  
575-393-6161 x113

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.

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**From:** Cliff Brunson  
**Sent:** Saturday, January 28, 2017 6:45:40 PM (UTC-07:00) Mountain Time (US & Canada)  
**To:** Lynch, Kristen, EMNRD  
**Cc:** Casey Summers; Jennifer Hudgens; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** OXY - MLMU #247 - Remediation Plan

Kristen,

This e-mail is to confirm our discussion concerning the remediation plan for the OXY MLMU #247 release. I have attached the information packet that we used in our discussion on 2/25/17 with a cover page describing the remediation plan that we agreed upon.

If you would please reply back via e-mail with your concurrence on this 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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1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
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Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
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Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
  
Action 203764

CONDITIONS

Operator: J R OIL, LTD. CO. P.O. Box 52647 Tulsa, OK 74152	OGRID: 256073
	Action Number: 203764
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
bhall	None	4/10/2023