

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

FEB 07 2014

Form C-141  
Revised August 8, 2011

Submit to the appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

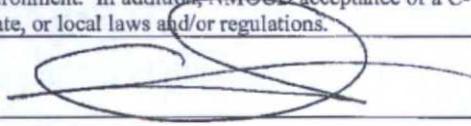
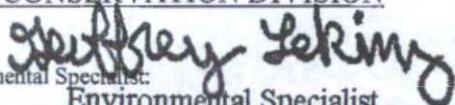
Name of Company	Oxy Permian Ltd.	Contact	Chancey Summers
Address	1017 W. Stanolind Rd, Hobbs, NM 88240	Telephone No.	(575) 397-8216
Facility Name	MLMU #247	Facility Type	Well location
Surface Owner	BLM	Mineral Owner	
		API No.	30-025-11044

**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:					
Printed Name:	Chancey Summers	OIL CONSERVATION DIVISION Approved by Environmental Specialist:  Environmental Specialist			
Title:	HES Specialist	Approval Date:	02/07/14	Expiration Date:	-
E-mail Address:	Chancey.Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>	
Date:	3.5-14	Phone:	(575) 397-8216		

\* Attach Additional Sheets If Necessary

District I  
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State of New Mexico  
Energy Minerals and Natural Resources  
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1220 South St. Francis Dr.  
Santa Fe, NM 87505

HOBBS OCD

FEB 07 2014

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

Form C-141  
Revised August 8, 2011

RECEIVED

### 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

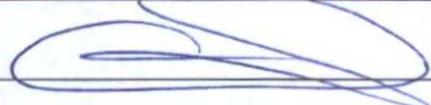
Type of Release	Produced Water	Volume of Release	30 bbls	Volume Recovered	0 bbls
Source of Release	Flow line leak	Date and Hour of Occurrence	07/15/2013	Date and Hour of Discovery	07/15/2013
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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 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:	
Date:	8-6-13			Attached <input type="checkbox"/>	
Phone:	(575) 397-8216				

\* Attach Additional Sheets If Necessary

DEC 22 2013



Oxy  
MLMU #247

MLMU Satellite #4  
Location



U/L P, Section 7, T24S, R37E  
550' FSL and 660' FEL  
Lea County, NM  
N 32.23288° W 103.20615°  
API# 30-025-11044

<b>BBC International, Inc.</b>	
<b>Oxy</b> <b>MLMU #247</b>	
Date: 07/18/2013	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2013



# Groundwater Plot

## Oxy MLMU #247

County  
Lea County

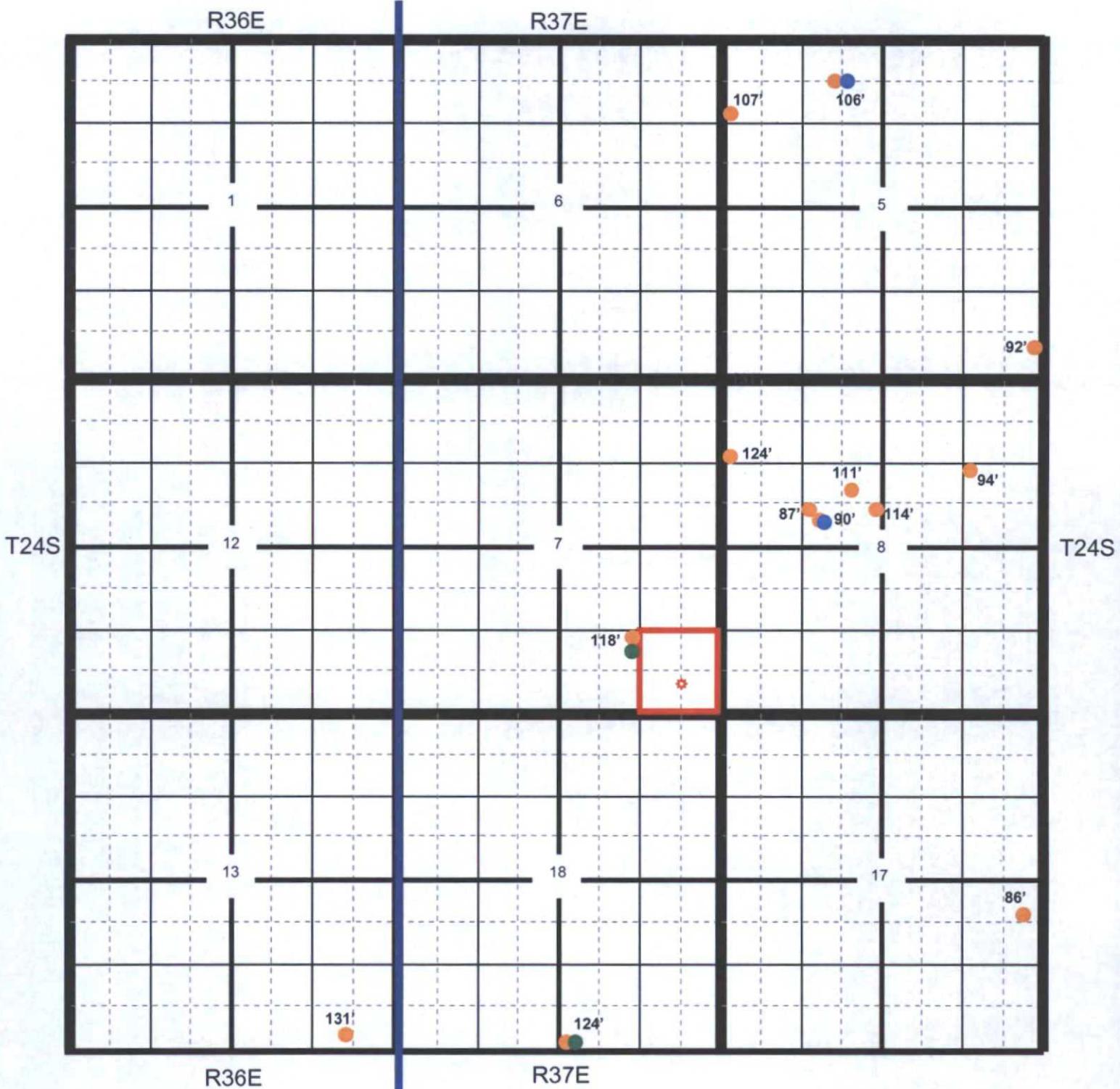
Unit Letter  
P

Section  
7

Township  
24S

Range  
37E

Trend Map 100'



⚙ Location

● OCD

● USGS

● SEO

● All Databases

Section Quarters

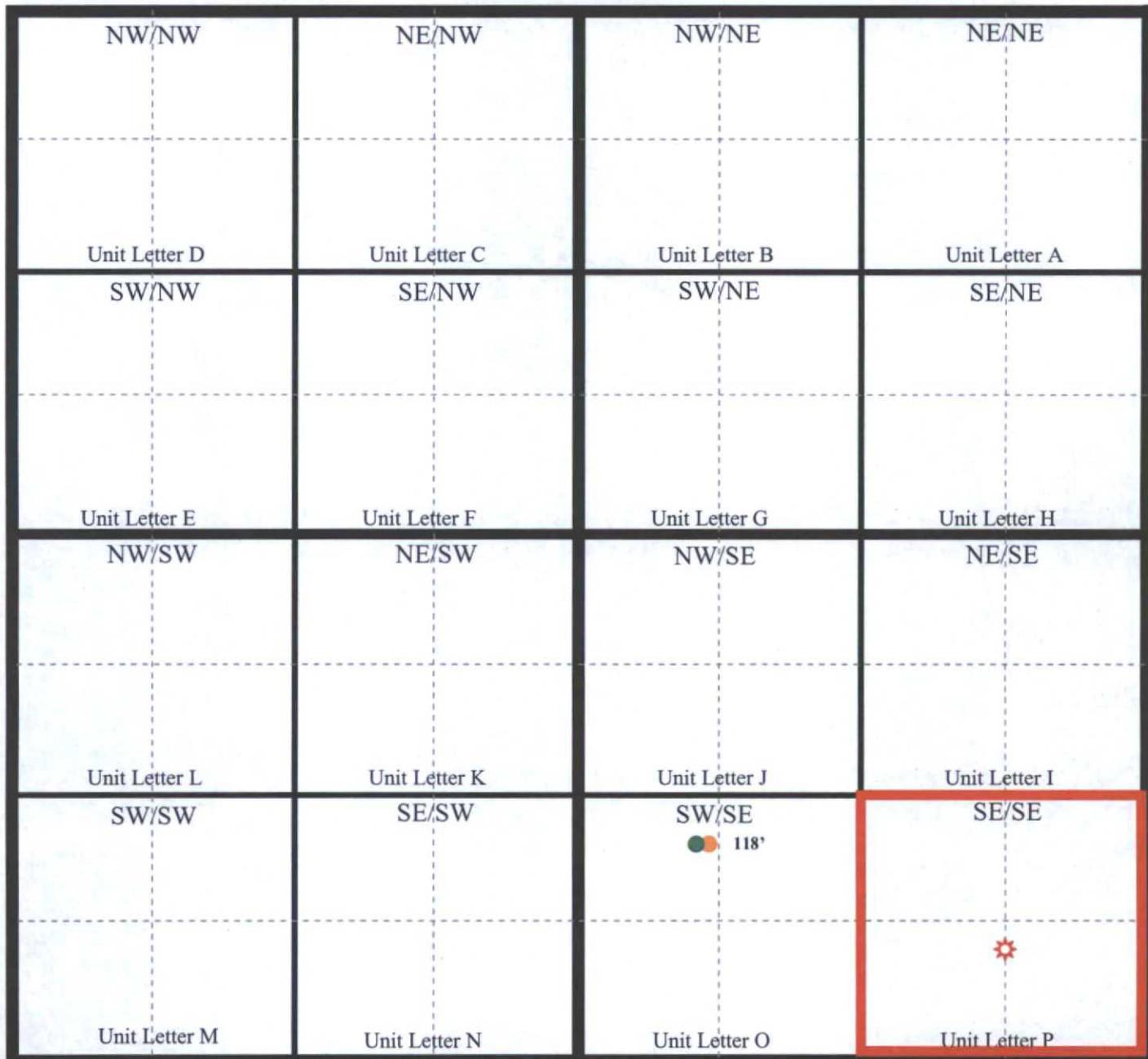
Oxy MLMU #247

County: Lea County    Unit Letter: P    Section: 7    Township: 24S    Range: 37E

Trend Map 100'

1

2

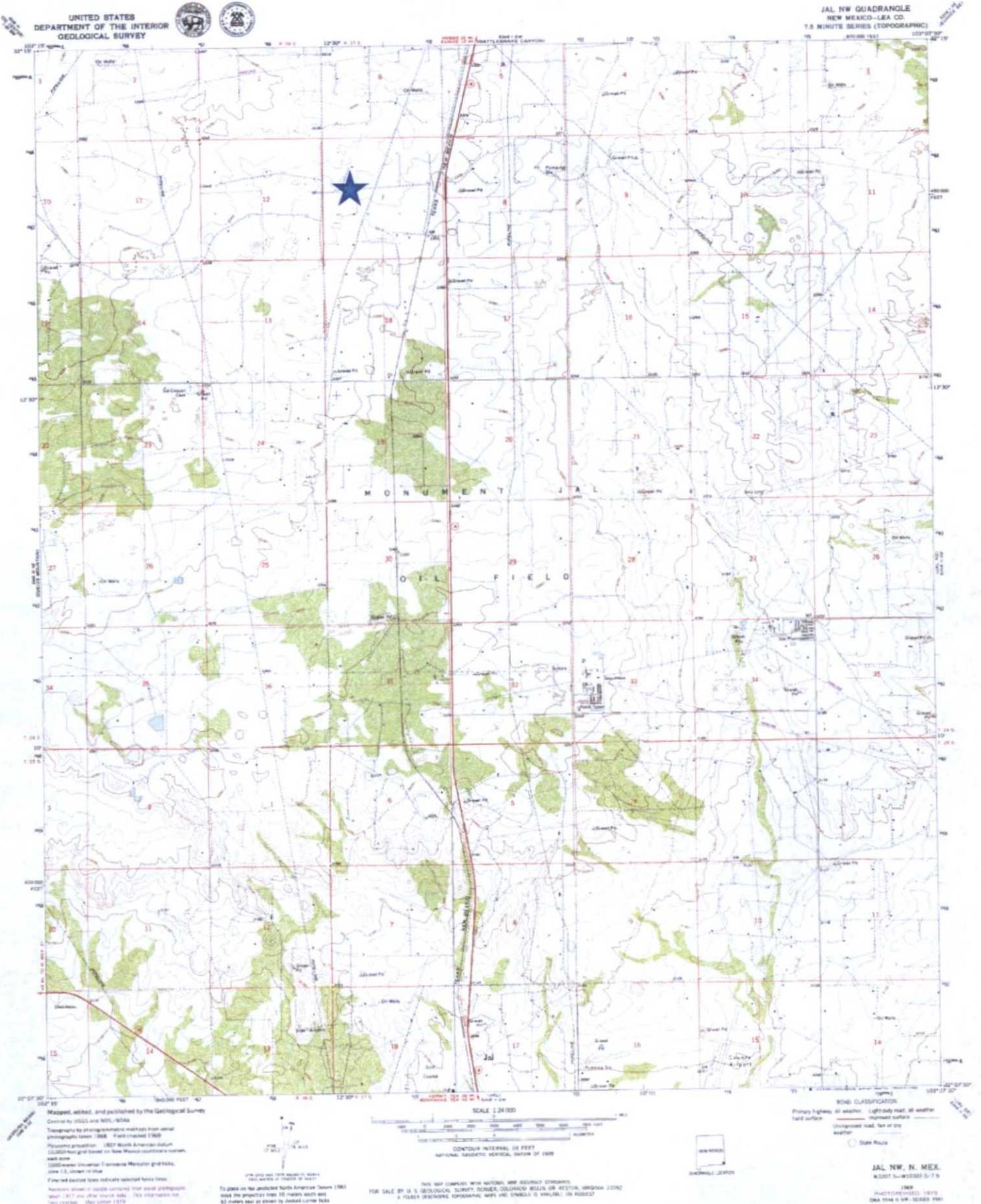


3

4

# Oxy

## MLMU #247





Laboratory Analytical Results Summary  
MLMU #247

Analyte	Method	Sample Date	SP1 @ 1'	SP2 @ 3'	SP3 @ 5'	SP4 @ 8'	SP1 @ 11'	SP1 @ 12'	SP1 @ 13'
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<2.00	8.8	0.482	<0.050	<0.050	n/a	<0.050
Toluene	BTEX 8021B		18.1	30.5	3	<0.050	<0.050	n/a	<0.050
Ethylbenzene	BTEX 8021B		21.8	73.4	8.46	<0.050	<0.050	n/a	<0.050
Total Xylenes	BTEX 8021B		86.6	186	24.5	<0.150	<0.150	n/a	<0.150
Total BTEX	BTEX 8021B		127	298	36.4	<0.300	<0.300	n/a	<0.300
Chloride	SM4500Cl-B		1230	2320	2000	1710	608	288	64
GRO	TPH 8015M		1860	3150	317	<10.0	<10.0	n/a	<10.0
DRO	TPH 8015M		9300	9910	2960	<10.0	<10.0	n/a	<10.0

Analyte	Method	Sample Date	SP2 @ 1'	SP2 @ 3'	SP2 @ 5'	SP2 @ 8'	SP2 @ 11'	SP2 @ 12'	SP2 @ 13'
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<2.00	3.38	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		18	20	0.124	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		21.4	15.8	0.062	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		79.3	96.2	0.161	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		119	135	0.347	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		992	2280	336	656	592	272	64
GRO	TPH 8015M		1710	2070	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		8730	10400	<10.0	n/a	n/a	n/a	n/a

Analyte	Method	Sample Date	SP3 @ 1'	SP3 @ 3'	SP3 @ 5'	SP3 @ 8'	SP3 @ 11'	SP3 @ 12'	SP3 @ 13'
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		2.72	6.81	2.14	<0.050	<0.050	n/a	<0.050
Toluene	BTEX 8021B		23	44.9	17.4	<0.050	<0.050	n/a	<0.050
Ethylbenzene	BTEX 8021B		27.7	67.8	21.1	<0.050	<0.050	n/a	<0.050
Total Xylenes	BTEX 8021B		106	178	78.1	<0.150	<0.150	n/a	<0.150
Total BTEX	BTEX 8021B		159	297	119	<0.300	<0.300	n/a	<0.300
Chloride	SM4500Cl-B		928	2160	976	768	592	288	80
GRO	TPH 8015M		1860	3530	1640	<10.0	<10.0	n/a	<10.0
DRO	TPH 8015M		8420	12000	7860	<10.0	<10.0	n/a	<10.0

Analyte	Method	Sample Date	SP4 @ 1'	SP4 @ 3'	SP4 @ 5'	SP4 @ 8'	SP4 @ 11'	SP4 @ 12'	SP4 @ 13'
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.200	<1.00	<1.00	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		0.612	5.27	5.02	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		1.12	17.4	15.4	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		6.91	66.8	61.8	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		8.64	89.5	82.2	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		608	1940	1960	800	528	288	64
GRO	TPH 8015M		194	971	51.1	n/a	n/a	n/a	n/a
DRO	TPH 8015M		21900	8900	540	n/a	n/a	n/a	n/a

Laboratory Analytical Results Summary  
MLMU #247

Analyte	Method	Sample				
		SP5 @ 1'	SP5 @ 3'	SP5 @ 5'	SP5 @ 7'	
Date		7/29/13	7/29/13	7/29/13	9/13/13	
Benzene	BTEX 8021B	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
		<.400	<0.050	<0.050	n/a	
Toluene	BTEX 8021B	2.84	0.905	0.848	n/a	
Ethylbenzene	BTEX 8021B	2.89	2.16	2.37	n/a	
Total Xylenes	BTEX 8021B	41.7	9.46	9.61	n/a	
Total BTEX	BTEX 8021B	47.4	12.5	12.8	n/a	
Chloride	SM4500Cl-B	1230	2440	2480	704	
GRO	TPH 8015M	50.9	16.4	10.9	n/a	
DRO	TPH 8015M	911	222	122	n/a	

Analyte	Method	Sample				
		SP6 @ 1'	SP6 @ 3'	SP6 @ 5'	SP6 @ 7'	
Date		7/29/13	7/29/13	7/29/13	9/13/13	
Benzene	BTEX 8021B	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
		0.802	0.212	<0.050	n/a	
Toluene	BTEX 8021B	3.09	2.17	0.35	n/a	
Ethylbenzene	BTEX 8021B	22.9	4.67	0.765	n/a	
Total Xylenes	BTEX 8021B	62.9	16.2	3.24	n/a	
Total BTEX	BTEX 8021B	89.8	23.2	4.35	n/a	
Chloride	SM4500Cl-B	1250	2280	2320	432	
GRO	TPH 8015M	305	27.3	<10.0	n/a	
DRO	TPH 8015M	3290	354	128	n/a	

Analyte	Method	Sample				
		SP7 @ 1'	SP7 @ 3'	SP7 @ 5'	SP7 @ 7'	
Date		7/29/13	7/29/13	7/29/13	9/13/13	
Benzene	BTEX 8021B	mg/Kg	mg/Kg	mg/Kg	mg/Kg	
		0.636	0.243	0.124	n/a	
Toluene	BTEX 8021B	3.07	2.02	1.7	n/a	
Ethylbenzene	BTEX 8021B	24.3	7.8	6.94	n/a	
Total Xylenes	BTEX 8021B	67.3	27.7	24.9	n/a	
Total BTEX	BTEX 8021B	95.3	37.8	33.7	n/a	
Chloride	SM4500Cl-B	1140	2440	1920	720	
GRO	TPH 8015M	261	38.2	34.8	n/a	
DRO	TPH 8015M	3040	374	369	n/a	

**HOBBS OCD****FEB 07 2014****RECEIVED**

August 05, 2013

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 07/30/13 16:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/26/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 1' (H301799-01)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<2.00	2.00	08/01/2013	ND	1.99	99.6	2.00	0.870		
Toluene*	18.1	2.00	08/01/2013	ND	1.94	97.1	2.00	0.758		
Ethylbenzene*	21.8	2.00	08/01/2013	ND	2.02	101	2.00	1.31		
Total Xylenes*	86.6	6.00	08/01/2013	ND	6.10	102	6.00	1.72		
<b>Total BTEX</b>	<b>127</b>	<b>12.0</b>	<b>08/01/2013</b>	<b>ND</b>						

Surrogate: 4-Bromofluorobenzene (PIC) 121 % 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	1230	16.0	08/01/2013	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	1860	50.0	08/01/2013	ND	183	91.5	200	10.9			
DRO >C10-C28	9300	50.0	08/01/2013	ND	190	95.0	200	10.7			

Surrogate: 1-Chlorooctane 171 % 65.2-140

Surrogate: 1-Chlorooctadecane 270 % 63.6-154

Cardinal Laboratories

\* = Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/26/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 3' (H301799-02)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>8.80</b>	2.00	08/02/2013	ND	1.93	96.5	2.00	8.06		
<b>Toluene*</b>	<b>30.5</b>	2.00	08/02/2013	ND	1.86	92.9	2.00	8.74		
<b>Ethylbenzene*</b>	<b>73.4</b>	2.00	08/02/2013	ND	1.98	99.0	2.00	8.72		
<b>Total Xylenes*</b>	<b>186</b>	6.00	08/02/2013	ND	5.80	96.7	6.00	9.06		
<b>Total BTEX</b>	<b>298</b>	12.0	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 116 % 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	
<b>Chloride</b>	<b>2320</b>	16.0	08/01/2013	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10</b>	<b>3150</b>	50.0	08/01/2013	ND	183	91.5	200	10.9			
<b>DRO &gt;C10-C28</b>	<b>9910</b>	50.0	08/01/2013	ND	190	95.0	200	10.7			

Surrogate: 1-Chlorooctane 176 % 65.2-140

Surrogate: 1-Chlorooctadecane 284 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/26/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 5' (H301799-03)**

BTEX 8021B		mg/kg		Analyzed By: DW					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	0.482	0.200	08/02/2013	ND	1.93	96.5	2.00	8.06		
Toluene*	3.00	0.200	08/02/2013	ND	1.86	92.9	2.00	8.74		
Ethylbenzene*	8.46	0.200	08/02/2013	ND	1.98	99.0	2.00	8.72		
Total Xylenes*	24.5	0.600	08/02/2013	ND	5.80	96.7	6.00	9.06		
<b>Total BTEX</b>	<b>36.4</b>	<b>1.20</b>	<b>08/02/2013</b>	<b>ND</b>						

Surrogate: 4-Bromofluorobenzene (PIC) 146 % 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	08/01/2013	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	317	50.0	08/01/2013	ND	183	91.5	200	10.9		
DRO >C10-C28	2960	50.0	08/01/2013	ND	190	95.0	200	10.7		

Surrogate: 1-Chlorooctane 128 % 65.2-140

Surrogate: 1-Chlorooctadecane 167 % 63.6-154

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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: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/26/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 1' (H301799-04)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<2.00	2.00	08/02/2013	ND	1.93	96.5	2.00	8.06		
Toluene*	18.0	2.00	08/02/2013	ND	1.86	92.9	2.00	8.74		
Ethylbenzene*	21.4	2.00	08/02/2013	ND	1.98	99.0	2.00	8.72		
Total Xylenes*	79.3	6.00	08/02/2013	ND	5.80	96.7	6.00	9.06		
Total BTEX	119	12.0	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 118 % 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	992	16.0	08/01/2013	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	1710	50.0	08/01/2013	ND	183	91.5	200	10.9			
DRO >C10-C28	8730	50.0	08/01/2013	ND	190	95.0	200	10.7			

Surrogate: 1-Chlorooctane 161 % 65.2-140

Surrogate: 1-Chlorooctadecane 284 % 63.6-154

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**Analytical Results For:**

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

 Received: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/26/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 3' (H301799-05)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>3.38</b>	2.00	08/02/2013	ND	1.93	96.5	2.00	8.06		
<b>Toluene*</b>	<b>20.0</b>	2.00	08/02/2013	ND	1.86	92.9	2.00	8.74		
<b>Ethylbenzene*</b>	<b>15.8</b>	2.00	08/02/2013	ND	1.98	99.0	2.00	8.72		
<b>Total Xylenes*</b>	<b>96.2</b>	6.00	08/02/2013	ND	5.80	96.7	6.00	9.06		
<b>Total BTEX</b>	<b>135</b>	12.0	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 118 % 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	
<b>Chloride</b>	<b>2280</b>	16.0	08/01/2013	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10</b>	<b>2070</b>	50.0	08/01/2013	ND	183	91.5	200	10.9			
<b>DRO &gt;C10-C28</b>	<b>10400</b>	50.0	08/01/2013	ND	190	95.0	200	10.7			

Surrogate: 1-Chlorooctane 163 % 65.2-140

Surrogate: 1-Chlorooctadecane 308 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/26/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 5' (H301799-06)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/02/2013	ND	1.93	96.5	2.00	8.06		
Toluene*	<b>0.124</b>	0.050	08/02/2013	ND	1.86	92.9	2.00	8.74		
Ethylbenzene*	<b>0.062</b>	0.050	08/02/2013	ND	1.98	99.0	2.00	8.72		
Total Xylenes*	<b>0.161</b>	0.150	08/02/2013	ND	5.80	96.7	6.00	9.06		
<b>Total BTEX</b>	<b>0.347</b>	0.300	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 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	
<b>Chloride</b>	<b>336</b>	16.0	08/01/2013	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	08/01/2013	ND	183	91.5	200	10.9		
DRO >C10-C28	<10.0	10.0	08/01/2013	ND	190	95.0	200	10.7		

Surrogate: 1-Chlorooctane 87.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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 Received: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/26/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 1' (H301799-07)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>2.72</b>	2.00	08/02/2013	ND	1.93	96.5	2.00	8.06		
<b>Toluene*</b>	<b>23.0</b>	2.00	08/02/2013	ND	1.86	92.9	2.00	8.74		
<b>Ethylbenzene*</b>	<b>27.7</b>	2.00	08/02/2013	ND	1.98	99.0	2.00	8.72		
<b>Total Xylenes*</b>	<b>106</b>	6.00	08/02/2013	ND	5.80	96.7	6.00	9.06		
<b>Total BTEX</b>	<b>159</b>	12.0	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 121 % 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	
<b>Chloride</b>	<b>928</b>	16.0	08/01/2013	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10</b>	<b>1860</b>	50.0	08/01/2013	ND	183	91.5	200	10.9			
<b>DRO &gt;C10-C28</b>	<b>8420</b>	50.0	08/01/2013	ND	190	95.0	200	10.7			

Surrogate: 1-Chlorooctane 154 % 65.2-140

Surrogate: 1-Chlorooctadecane 242 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/26/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 3' (H301799-08)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>6.81</b>	4.00	08/02/2013	ND	1.93	96.5	2.00	8.06		
<b>Toluene*</b>	<b>44.9</b>	4.00	08/02/2013	ND	1.86	92.9	2.00	8.74		
<b>Ethylbenzene*</b>	<b>67.8</b>	4.00	08/02/2013	ND	1.98	99.0	2.00	8.72		
<b>Total Xylenes*</b>	<b>178</b>	12.0	08/02/2013	ND	5.80	96.7	6.00	9.06		
<b>Total BTEX</b>	<b>297</b>	24.0	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 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	
<b>Chloride</b>	<b>2160</b>	16.0	08/01/2013	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10</b>	<b>3530</b>	50.0	08/01/2013	ND	183	91.5	200	10.9			
<b>DRO &gt;C10-C28</b>	<b>12000</b>	50.0	08/01/2013	ND	190	95.0	200	10.7			

Surrogate: 1-Chlorooctane 180 % 65.2-140

Surrogate: 1-Chlorooctadecane 346 % 63.6-154

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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: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/26/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 5' (H301799-09)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>2.14</b>	2.00	08/02/2013	ND	1.93	96.5	2.00	8.06		
<b>Toluene*</b>	<b>17.4</b>	2.00	08/02/2013	ND	1.86	92.9	2.00	8.74		
<b>Ethylbenzene*</b>	<b>21.1</b>	2.00	08/02/2013	ND	1.98	99.0	2.00	8.72		
<b>Total Xylenes*</b>	<b>78.1</b>	6.00	08/02/2013	ND	5.80	96.7	6.00	9.06		
<b>Total BTEX</b>	<b>119</b>	12.0	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 118 % 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	
<b>Chloride</b>	<b>976</b>	16.0	08/01/2013	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10</b>	<b>1640</b>	50.0	08/01/2013	ND	183	91.5	200	10.9			
<b>DRO &gt;C10-C28</b>	<b>7860</b>	50.0	08/01/2013	ND	190	95.0	200	10.7			

Surrogate: 1-Chlorooctane 158 % 65.2-140

Surrogate: 1-Chlorooctadecane 228 % 63.6-154

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

 Received: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/26/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 1' (H301799-10)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.200	0.200	08/02/2013	ND	1.93	96.5	2.00	8.06		
Toluene*	<b>0.612</b>	0.200	08/02/2013	ND	1.86	92.9	2.00	8.74		
Ethylbenzene*	<b>1.12</b>	0.200	08/02/2013	ND	1.98	99.0	2.00	8.72		
Total Xylenes*	<b>6.91</b>	0.600	08/02/2013	ND	5.80	96.7	6.00	9.06		
<b>Total BTEX</b>	<b>8.64</b>	1.20	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 125 % 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	<b>608</b>	16.0	08/01/2013	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<b>194</b>	100	08/01/2013	ND	183	91.5	200	10.9			
DRO >C10-C28	<b>21900</b>	100	08/01/2013	ND	190	95.0	200	10.7			

Surrogate: 1-Chlorooctane 123 % 65.2-140

Surrogate: 1-Chlorooctadecane 953 % 63.6-154

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

 Received: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/26/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 3' (H301799-11)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<1.00	1.00	08/02/2013	ND	2.21	110	2.00	4.37		
Toluene*	5.27	1.00	08/02/2013	ND	2.16	108	2.00	4.56		
Ethylbenzene*	17.4	1.00	08/02/2013	ND	2.29	114	2.00	4.01		
Total Xylenes*	66.8	3.00	08/02/2013	ND	6.88	115	6.00	3.56		
<b>Total BTEX</b>	<b>89.5</b>	<b>6.00</b>	<b>08/02/2013</b>	<b>ND</b>						

Surrogate: 4-Bromofluorobenzene (PIC) 126 % 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	1940	16.0	08/01/2013	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	971	50.0	08/02/2013	ND	181	90.5	200	4.59			
DRO >C10-C28	8900	50.0	08/02/2013	ND	191	95.6	200	3.53			

Surrogate: 1-Chlorooctane 141 % 65.2-140

Surrogate: 1-Chlorooctadecane 279 % 63.6-154

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 Received: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/26/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 5' (H301799-12)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<1.00	1.00	08/02/2013	ND	2.21	110	2.00	4.37		
Toluene*	5.02	1.00	08/02/2013	ND	2.16	108	2.00	4.56		
Ethylbenzene*	15.4	1.00	08/02/2013	ND	2.29	114	2.00	4.01		
Total Xylenes*	61.8	3.00	08/02/2013	ND	6.88	115	6.00	3.56		
<b>Total BTEX</b>	<b>82.2</b>	<b>6.00</b>	<b>08/02/2013</b>	<b>ND</b>						

Surrogate: 4-Bromofluorobenzene (PIE) 123 % 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	1960	16.0	08/01/2013	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	51.1	10.0	08/02/2013	ND	181	90.5	200	4.59		
DRO >C10-C28	540	10.0	08/02/2013	ND	191	95.6	200	3.53		

Surrogate: 1-Chlorooctane 86.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

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\*=Accredited Analyte

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Caley 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: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/29/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 5 @ 1' (H301799-13)**

BTEX 8021B		mg/kg		Analyzed By: DW					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.400	0.400	08/02/2013	ND	2.21	110	2.00	4.37		
Toluene*	2.84	0.400	08/02/2013	ND	2.16	108	2.00	4.56		
Ethylbenzene*	2.89	0.400	08/02/2013	ND	2.29	114	2.00	4.01		
Total Xylenes*	41.7	1.20	08/02/2013	ND	6.88	115	6.00	3.56		
Total BTEX	47.4	2.40	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 149 % 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	1230	16.0	08/01/2013	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	50.9	10.0	08/02/2013	ND	181	90.5	200	4.59		
DRO >C10-C28	911	10.0	08/02/2013	ND	191	95.6	200	3.53		

Surrogate: 1-Chlorooctane 73.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.9 % 63.6-154

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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: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/29/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 5 @ 3' (H301799-14)**

BTEX 8021B		mg/kg		Analyzed By: DW				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/02/2013	ND	2.21	110	2.00	4.37		
Toluene*	<b>0.905</b>	0.050	08/02/2013	ND	2.16	108	2.00	4.56		
Ethylbenzene*	<b>2.16</b>	0.050	08/02/2013	ND	2.29	114	2.00	4.01		
Total Xylenes*	<b>9.46</b>	0.150	08/02/2013	ND	6.88	115	6.00	3.56		
<b>Total BTEX</b>	<b>12.5</b>	0.300	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 212 % 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	<b>2440</b>	16.0	08/01/2013	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	<b>16.4</b>	10.0	08/01/2013	ND	181	90.5	200	4.59		
DRO >C10-C28	<b>222</b>	10.0	08/01/2013	ND	191	95.6	200	3.53		

Surrogate: 1-Chlorooctane 90.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/29/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 5 @ 5' (H301799-15)**

BTEX 8021B		mg/kg		Analyzed By: DW					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/02/2013	ND	2.21	110	2.00	4.37		
Toluene*	<b>0.848</b>	0.050	08/02/2013	ND	2.16	108	2.00	4.56		
Ethylbenzene*	<b>2.37</b>	0.050	08/02/2013	ND	2.29	114	2.00	4.01		
Total Xylenes*	<b>9.61</b>	0.150	08/02/2013	ND	6.88	115	6.00	3.56		
<b>Total BTEX</b>	<b>12.8</b>	0.300	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 216 % 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	
<b>Chloride</b>	<b>2480</b>	16.0	08/01/2013	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	
<b>GRO C6-C10</b>	<b>10.9</b>	10.0	08/01/2013	ND	181	90.5	200	4.59		
<b>DRO &gt;C10-C28</b>	<b>122</b>	10.0	08/01/2013	ND	191	95.6	200	3.53		

Surrogate: 1-Chlorooctane 87.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/29/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 6 @ 1' (H301799-16)**

BTEX 8021B		mg/kg		Analyzed By: DW				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>0.802</b>	0.200	08/02/2013	ND	2.21	110	2.00	4.37		
<b>Toluene*</b>	<b>3.09</b>	0.200	08/02/2013	ND	2.16	108	2.00	4.56		
<b>Ethylbenzene*</b>	<b>22.9</b>	0.200	08/02/2013	ND	2.29	114	2.00	4.01		
<b>Total Xylenes*</b>	<b>62.9</b>	0.600	08/02/2013	ND	6.88	115	6.00	3.56		
<b>Total BTEX</b>	<b>89.8</b>	1.20	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 200 % 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	
<b>Chloride</b>	<b>1250</b>	16.0	08/01/2013	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	
<b>GRO C6-C10</b>	<b>305</b>	100	08/02/2013	ND	181	90.5	200	4.59		
<b>DRO &gt;C10-C28</b>	<b>3290</b>	100	08/02/2013	ND	191	95.6	200	3.53		

Surrogate: 1-Chlorooctane 104 % 65.2-140

Surrogate: 1-Chlorooctadecane 125 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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 Fax To: (575) 397-0397

 Received: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/29/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 6 @ 3' (H301799-17)**

BTEX 8021B		mg/kg		Analyzed By: DW					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>0.212</b>	0.050	08/02/2013	ND	2.21	110	2.00	4.37		
<b>Toluene*</b>	<b>2.17</b>	0.050	08/02/2013	ND	2.16	108	2.00	4.56		
<b>Ethylbenzene*</b>	<b>4.67</b>	0.050	08/02/2013	ND	2.29	114	2.00	4.01		
<b>Total Xylenes*</b>	<b>16.2</b>	0.150	08/02/2013	ND	6.88	115	6.00	3.56		
<b>Total BTEX</b>	<b>23.2</b>	0.300	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 240 % 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	
<b>Chloride</b>	<b>2280</b>	16.0	08/01/2013	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	
<b>GRO C6-C10</b>	<b>27.3</b>	10.0	08/01/2013	ND	181	90.5	200	4.59		
<b>DRO &gt;C10-C28</b>	<b>354</b>	10.0	08/01/2013	ND	191	95.6	200	3.53		

Surrogate: 1-Chlorooctane 92.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

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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: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/29/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 6 @ 5' (H301799-18)**

BTEX 8021B		mg/kg		Analyzed By: DW					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/02/2013	ND	2.21	110	2.00	4.37		
Toluene*	<b>0.350</b>	0.050	08/02/2013	ND	2.16	108	2.00	4.56		
Ethylbenzene*	<b>0.765</b>	0.050	08/02/2013	ND	2.29	114	2.00	4.01		
Total Xylenes*	<b>3.24</b>	0.150	08/02/2013	ND	6.88	115	6.00	3.56		
<b>Total BTEX</b>	<b>4.35</b>	0.300	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 154 % 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	
<b>Chloride</b>	<b>2320</b>	16.0	08/01/2013	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	08/01/2013	ND	181	90.5	200	4.59		
<b>DRO &gt;C10-C28</b>	<b>128</b>	10.0	08/01/2013	ND	191	95.6	200	3.53		

Surrogate: 1-Chlorooctane 84.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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

 Received: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/29/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 7 @ 1' (H301799-19)**

BTEX 8021B		mg/kg		Analyzed By: DW				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>0.636</b>	0.200	08/02/2013	ND	2.21	110	2.00	4.37		
<b>Toluene*</b>	<b>3.07</b>	0.200	08/02/2013	ND	2.16	108	2.00	4.56		
<b>Ethylbenzene*</b>	<b>24.3</b>	0.200	08/02/2013	ND	2.29	114	2.00	4.01		
<b>Total Xylenes*</b>	<b>67.3</b>	0.600	08/02/2013	ND	6.88	115	6.00	3.56		
<b>Total BTEX</b>	<b>95.3</b>	1.20	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 214 % 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	
<b>Chloride</b>	<b>1140</b>	16.0	08/01/2013	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	
<b>GRO C6-C10</b>	<b>261</b>	100	08/02/2013	ND	181	90.5	200	4.59		
<b>DRO &gt;C10-C28</b>	<b>3040</b>	100	08/02/2013	ND	191	95.6	200	3.53		

Surrogate: 1-Chlorooctane 96.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 120 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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

 Received: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/29/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 7 @ 3' (H301799-20)**

BTEX 8021B		mg/kg		Analyzed By: DW				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>0.243</b>	0.050	08/02/2013	ND	2.21	110	2.00	4.37		
<b>Toluene*</b>	<b>2.02</b>	0.050	08/02/2013	ND	2.16	108	2.00	4.56		
<b>Ethylbenzene*</b>	<b>7.80</b>	0.050	08/02/2013	ND	2.29	114	2.00	4.01		
<b>Total Xylenes*</b>	<b>27.7</b>	0.150	08/02/2013	ND	6.88	115	6.00	3.56		
<b>Total BTEX</b>	<b>37.8</b>	0.300	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 306 % 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	
<b>Chloride</b>	<b>2440</b>	16.0	08/01/2013	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	
<b>GRO C6-C10</b>	<b>38.2</b>	10.0	08/01/2013	ND	181	90.5	200	4.59		
<b>DRO &gt;C10-C28</b>	<b>374</b>	10.0	08/01/2013	ND	191	95.6	200	3.53		

Surrogate: 1-Chlorooctane 89.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

Cardinal Laboratories

\*=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: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/29/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 7 @ 5' (H301799-21)**

BTEX 8021B		mg/kg		Analyzed By: DW				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>0.124</b>	0.050	08/02/2013	ND	2.21	110	2.00	4.37		
<b>Toluene*</b>	<b>1.70</b>	0.050	08/02/2013	ND	2.16	108	2.00	4.56		
<b>Ethylbenzene*</b>	<b>6.94</b>	0.050	08/02/2013	ND	2.29	114	2.00	4.01		
<b>Total Xylenes*</b>	<b>24.9</b>	0.150	08/02/2013	ND	6.88	115	6.00	3.56		
<b>Total BTEX</b>	<b>33.7</b>	0.300	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 316 % 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	
<b>Chloride</b>	<b>1920</b>	16.0	08/01/2013	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	
<b>GRO C6-C10</b>	<b>34.8</b>	10.0	08/02/2013	ND	181	90.5	200	4.59		
<b>DRO &gt;C10-C28</b>	<b>369</b>	10.0	08/02/2013	ND	191	95.6	200	3.53		

Surrogate: 1-Chlorooctane 92.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- 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



**CARDINAL LABORATORIES**

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

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

1 of 3

Company Name: <b>BBC International, Inc</b>		P.O. #:		<b>BILL TO</b>		ANALYSIS REQUEST											
Project Manager: <b>Cliff Brunson</b>		Company:															
Address: <b>P.O. Box 805</b>		City: <b>Hobbs</b>		State: <b>NM</b>		Zip: <b>88241</b>											
Phone #: <b>575-397-6388</b>		Fax #: <b>575-397-0397</b>		Address: <b>SAME</b>													
Project #: _____		Project Owner: <b>MLM # 247</b>		City: _____													
Project Name: _____		State: _____		Zip: _____													
Project Location: _____		Phone #: _____		Fax #: _____													
Sampler Name: <b>Roger Hammond</b>		Matrix:		PRESERV:		SAMPLING											
FOR LAB USE ONLY																	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	CHLORIDE	TPH	BTEX
H30199	SP1011	G	1	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>							7-16-13	915	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	SP1031	G	1	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>							7-16-13	948	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	SP2051	G	1	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>							7-16-13	1040	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	SP2031	G	1	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>							7-16-13	1110	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	SP2051	G	1	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>							7-16-13	1146	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	SP3011	G	1	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>							7-16-13	1242	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	SP3031	G	1	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>							7-16-13	1740	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	SP3051	G	1	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>							7-16-13	159	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	SP4011	G	1	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>							7-16-13	230	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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Relinquished By: **P. Hernandez**  
Date: **7/20/13**  
Time: **4:55**  
Received By: **Wendi Henderson**

Delivered By: (Circle One) **UPS**  
Sampler: **UPS** - Bus - Other: **492**  
Sample Condition:  Intact  Broken  
Cool:  Yes  No  
Checked By: **[Signature]**

1. Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476  
#54



**CARDINAL LABORATORIES**

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(505) 393-2326 FAX (505) 393-2476

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

243

Company Name: **BBC International, Inc.** P.O. #: **BILL TO**

Project Manager: **Cliff Brunson** Company: **SA ME**

Address: **P.O. Box 805** State: **NM** Zip: **88241** Attn: **SA ME**

City: **Hobbs** Phone #: **575-397-6388** Fax #: **575-397-0397** Address: **SA ME**

Project #: **MLM # 247** Project Owner: **ORX** City: **SA ME**

Project Name: **MLM # 247** State: **ORX** Zip: **ORX**

Project Location: **MLM # 247** Phone #: **ORX**

Sampler Name: **Pete Hernandez** Fax #: **ORX**

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST								
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:											
H30199	SP4 @ 3'	C	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7-26-13	258	CHLORIDE												
	12 SP5 @ 1'	C	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7-26-13	325	TPH												
	13 SP5 @ 1'	C	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7-29-13	930	BTEX												
	14 SP5 @ 3'	C	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7-29-13	1008													
	15 SP6 @ 1'	C	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7-19-13	1137													
	16 SP6 @ 1'	C	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7-19-13	1705													
	17 @ 5'	C	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7-19-13	1228													
	18 @ 5'	C	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7-19-13	1258													
	19 SP7 @ 1'	C	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7-29-13	1337													
	20 @ 3'	C	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7-29-13	1337													

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Relinquished By: **Pete Hernandez** Date: **7/30/13** Received By: **Spedi Henderson**

Time: **4:55**

Delivered By: (Circle One) **-40**

Sampler - UPS - Bus - Other: **-40**

Sample Condition: Cool  Intact  No  Yes

CHECKED BY: **[Signature]**

REMARKS: **#54**

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



**HOBBS OCD****FEB 07 2014****RECEIVED**

September 20, 2013

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 09/16/13 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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,

Caley 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: 09/16/2013  
 Reported: 09/20/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 09/11/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 8' (H302231-01)**

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	09/19/2013	ND	1.85	92.3	2.00	11.7		
Toluene*	<0.050	0.050	09/19/2013	ND	1.86	93.0	2.00	10.4		
Ethylbenzene*	<0.050	0.050	09/19/2013	ND	1.91	95.4	2.00	10.8		
Total Xylenes*	<0.150	0.150	09/19/2013	ND	5.75	95.8	6.00	10.2		
Total BTEX	<0.300	0.300	09/19/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 109 % 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	1710	16.0	09/18/2013	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/18/2013	ND	198	99.1	200	0.103		
DRO >C10-C28	<10.0	10.0	09/18/2013	ND	189	94.7	200	2.84		

Surrogate: 1-Chlorooctane 116 % 65.2-140

Surrogate: 1-Chlorooctadecane 123 % 63.6-154

Cardinal Laboratories

\*=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: 09/16/2013  
 Reported: 09/20/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 09/11/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 11' (H302231-02)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/19/2013	ND	1.85	92.3	2.00	11.7		
Toluene*	<0.050	0.050	09/19/2013	ND	1.86	93.0	2.00	10.4		
Ethylbenzene*	<0.050	0.050	09/19/2013	ND	1.91	95.4	2.00	10.8		
Total Xylenes*	<0.150	0.150	09/19/2013	ND	5.75	95.8	6.00	10.2		
Total BTEX	<0.300	0.300	09/19/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 108 % 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	608	16.0	09/18/2013	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/18/2013	ND	198	99.1	200	0.103		
DRO >C10-C28	<10.0	10.0	09/18/2013	ND	189	94.7	200	2.84		

Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

**Sample ID: SP 1 @ 12' (H302231-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	09/18/2013	ND	416	104	400	3.77		

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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: 09/16/2013  
 Reported: 09/20/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 09/11/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 13' (H302231-04)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/19/2013	ND	1.85	92.3	2.00	11.7		
Toluene*	<0.050	0.050	09/19/2013	ND	1.86	93.0	2.00	10.4		
Ethylbenzene*	<0.050	0.050	09/19/2013	ND	1.91	95.4	2.00	10.8		
Total Xylenes*	<0.150	0.150	09/19/2013	ND	5.75	95.8	6.00	10.2		
Total BTEX	<0.300	0.300	09/19/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 112 % 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	64.0	16.0	09/18/2013	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/18/2013	ND	198	99.1	200	0.103		
DRO >C10-C28	<10.0	10.0	09/18/2013	ND	189	94.7	200	2.84		

Surrogate: 1-Chlorooctane 118 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 63.6-154

**Sample ID: SP 2 @ 8' (H302231-05)**

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	09/18/2013	ND	416	104	400	3.77		

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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: 09/16/2013  
 Reported: 09/20/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 09/11/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 11' (H302231-06)**

Chloride, SM4500CI-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	09/18/2013	ND	416	104	400	3.77	

**Sample ID: SP 2 @ 12' (H302231-07)**

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	09/18/2013	ND	416	104	400	3.77	

**Sample ID: SP 2 @ 13' (H302231-08)**

Chloride, SM4500CI-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/18/2013	ND	416	104	400	3.77	

Cardinal Laboratories

\*=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: 09/16/2013  
 Reported: 09/20/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 09/11/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 8' (H302231-09)**

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	09/19/2013	ND	1.85	92.3	2.00	11.7		
Toluene*	<0.050	0.050	09/19/2013	ND	1.86	93.0	2.00	10.4		
Ethylbenzene*	<0.050	0.050	09/19/2013	ND	1.91	95.4	2.00	10.8		
Total Xylenes*	<0.150	0.150	09/19/2013	ND	5.75	95.8	6.00	10.2		
Total BTEX	<0.300	0.300	09/19/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 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	<b>768</b>	16.0	09/18/2013	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/18/2013	ND	198	99.1	200	0.103		
DRO >C10-C28	<10.0	10.0	09/18/2013	ND	189	94.7	200	2.84		

Surrogate: 1-Chlorooctane 114 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 63.6-154

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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: 09/16/2013  
 Reported: 09/20/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 09/11/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 11' (H302231-10)**

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	09/19/2013	ND	1.85	92.3	2.00	11.7		
Toluene*	<0.050	0.050	09/19/2013	ND	1.86	93.0	2.00	10.4		
Ethylbenzene*	<0.050	0.050	09/19/2013	ND	1.91	95.4	2.00	10.8		
Total Xylenes*	<0.150	0.150	09/19/2013	ND	5.75	95.8	6.00	10.2		
Total BTEX	<0.300	0.300	09/19/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 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	592	16.0	09/18/2013	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/18/2013	ND	198	99.1	200	0.103		
DRO >C10-C28	<10.0	10.0	09/18/2013	ND	189	94.7	200	2.84		

Surrogate: 1-Chlorooctane 119 % 65.2-140

Surrogate: 1-Chlorooctadecane 128 % 63.6-154

**Sample ID: SP 3 @ 12' (H302231-11)**

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	09/18/2013	ND	416	104	400	3.77		

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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: 09/16/2013  
 Reported: 09/20/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 09/11/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 13' (H302231-12)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/19/2013	ND	1.85	92.3	2.00	11.7		
Toluene*	<0.050	0.050	09/19/2013	ND	1.86	93.0	2.00	10.4		
Ethylbenzene*	<0.050	0.050	09/19/2013	ND	1.91	95.4	2.00	10.8		
Total Xylenes*	<0.150	0.150	09/19/2013	ND	5.75	95.8	6.00	10.2		
Total BTEX	<0.300	0.300	09/19/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 107 % 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	80.0	16.0	09/18/2013	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/18/2013	ND	198	99.1	200	0.103		
DRO >C10-C28	<10.0	10.0	09/18/2013	ND	189	94.7	200	2.84		

Surrogate: 1-Chlorooctane 122 % 65.2-140

Surrogate: 1-Chlorooctadecane 131 % 63.6-154

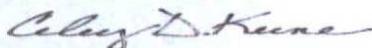
**Sample ID: SP 4 @ 8' (H302231-13)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	09/18/2013	ND	416	104	400	3.77		

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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: 09/16/2013  
 Reported: 09/20/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 09/11/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 11' (H302231-14)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	09/18/2013	ND	416	104	400	3.77		

**Sample ID: SP 4 @ 12' (H302231-15)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	09/18/2013	ND	416	104	400	3.77		

**Sample ID: SP 4 @ 13' (H302231-16)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/17/2013	ND	416	104	400	3.77		

**Sample ID: SP 5 @ 7' (H302231-17)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	09/17/2013	ND	416	104	400	3.77		

**Sample ID: SP 6 @ 7' (H302231-18)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	09/17/2013	ND	416	104	400	3.77		

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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: 09/16/2013  
 Reported: 09/20/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 09/13/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 7 @ 7' (H302231-19)**

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	09/17/2013	ND	416	104	400	3.77	

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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





# CARDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2012

Company Name: BBC International, Inc.		P.O. #		BILL TO		ANALYSIS REQUEST	
Project Manager: Cliff Brunson		Company:					
Address: P O Box 805		City: Hobbs		State: NM Zip: 88241			
Phone #: 575-397-6388		Fax #: 575-397-0397		Address: SAME			
Project #: . . .		Project Owner: OKY		City:			
Project Name: BALM U #247		State:		Zip:			
Project Location:		Phone #:					
Sampler Name: POPEL Hernandez		Fax #:					
For Lab Use Only							

Lab I.D.	Sample I.D.	(GRAB OR C/COMP)	# CONTAINERS	MATRIX						DATE	TIME	CL	TPH	BTEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER					
H502231														
11	SP3 @ 12'	C	1	✓						9.11.13	159	✓		
12	SP3 @ 13'	C	1	✓						9.11.13	211	✓		
13	SP4 @ 9'	C	1	✓						9.11.13	248	✓		
14	SP4 @ 9'	C	1	✓						9.11.13	324	✓		
15	SP4 @ 14'	C	1	✓						9.11.13	338	✓		
16	SP5 @ 13'	C	1	✓						9.11.13	347	✓		
17	SP5 @ 13'	C	1	✓						9.12.13	1020	✓		
18	SP4 @ 7'	C	1	✓						9.12.13	1120	✓		
19	SP7 @ 7'	C	1	✓						9.13.13	1209	✓		

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Relinquished By: *[Signature]* Date: 9.16.13 Time: 9:10  
 Received By: *[Signature]* Date: 9.16.13 Time: 9:10  
 Registered By: *[Signature]*

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

Sample Condition:  Intact  Broken  
 Yes  No

CHECKED BY: *[Signature]*

REMARKS:  Yes  No  Add'l Phone #  Add'l Fax #

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

# 54

FEB 07 2014

**Kathy Purvis**

**From:** Leking, Geoffrey R, EMNRD <GeoffreyR.Leking@state.nm.us>  
**Sent:** Thursday, October 03, 2013 9:21 AM  
**To:** Cliff P. Brunson  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** RE: OXY-MLMU #247-Remediation Plan

RECEIVED

Cliff

RE: OXY-MLMU #247-Remediation Plan

The remediation plan is approved as discussed at the September 25, 2013 meeting as detailed in your email below.

Please include all attachments to the email below in your closure report. Thank you.

Geoffrey Leking  
Environmental Specialist  
NMOCD-Hobbs  
1625 N. French Drive  
Hobbs, NM 88240  
Office: (575) 393-6161 Ext. 113  
Cell: (575) 399-2990  
email: [geoffreyr.leking@state.nm.us](mailto:geoffreyr.leking@state.nm.us)

---

**From:** Cliff P. Brunson [<mailto:cbrunson@bbcinternational.com>]  
**Sent:** Wednesday, October 02, 2013 11:08 AM  
**To:** Leking, Geoffrey R, EMNRD  
**Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** OXY-MLMU #247-Remediation Plan

Geoff,

This message is to confirm our discussion on September 25, 2013 concerning the remediation plan for the Oxy MLMU #247 site. I have attached the site diagram and lab data summary table that we used in our discussion. As mutually agreed, Oy will excavate to a depth of 5 feet across the entire leak area and then place an impermeable liner in the around around SP1. The site will then be backfilled with clean soil.

If you would please reply back via e-mail with your concurrence to 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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\*\*\*\*\*

Kathy Purvis

FEB 07 2014

From: Van Curen, Jennifer <jvancure@blm.gov>  
Sent: Sunday, October 06, 2013 8:09 PM  
To: Cliff P. Brunson  
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis  
Subject: Re: OXY-MLMU #247-Remediation Plan

RECEIVED

Cliff,

You are good to go on this one also.

JENNIFER E VAN CUREN  
ENVIRONMENTAL PROTECTION SPECIALIST  
DOI-BLM-CARLSBAD FIELD OFFICE  
320 E GREENE ST. CARLSBAD, NM 88220  
OFFICE- 575-234-5905  
CELL - 575-361-0042  
FAX - 575-234-5927

On Thu, Oct 3, 2013 at 10:43 AM, Cliff P. Brunson <[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)> wrote:  
Jennifer,

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 Geoffrey Leking of the NMOCD. Oxy will excavate to a depth of 5 feet across the entire leak area and then place an impermeable liner in the around around SP1. 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. If you have any questions, please let us know.

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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\*\*\*\*\*



Oxy  
MLMU #247

MLMU Satellite #4  
Location



U/L P, Section 7, T24S, R37E  
550' FSL and 660' FEL  
Lea County, NM  
N 32.23288° W 103.20615°  
API# 30-025-11044

BBC International, Inc.	
Oxy MLMU #247	
Date: 07/18/2013	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2013



# Groundwater Plot

## Oxy MLMU #247

County  
Lea County

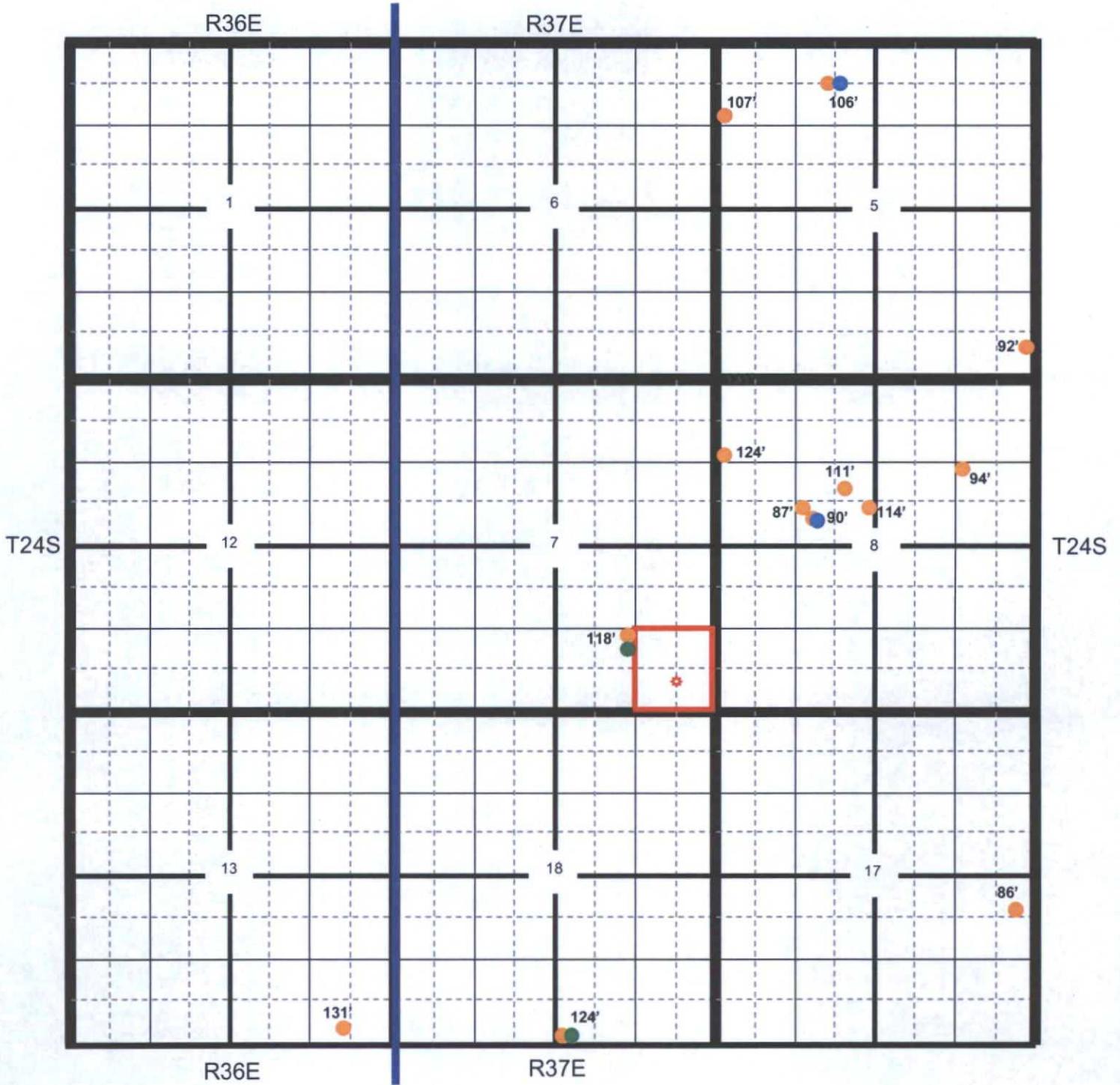
Unit Letter  
P

Section  
7

Township  
24S

Range  
37E

Trend Map 100'



★ Location

● OCD

● USGS

● SEO

● All Databases



Section Quarters

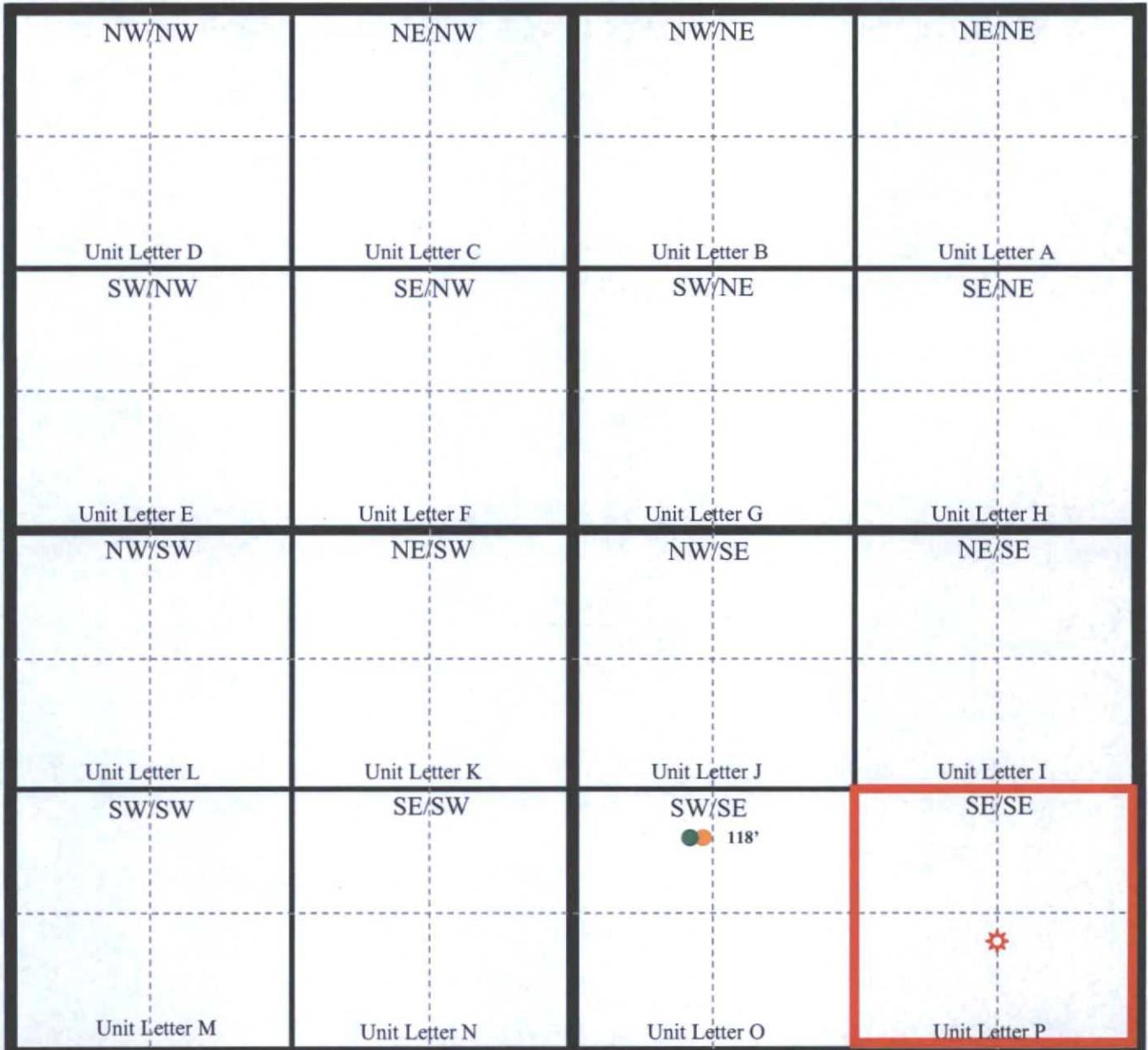
Oxy MLMU #247

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

Trend Map 100'

1

2



3

4

Location     
 OCD     
 USGS     
 SEO     
 All Databases

Laboratory Analytical Results Summary  
MLMU #247

Analyte	Method	Sample		SP1 @ 1'	SP1 @ 3'	SP1 @ 5'	SP1 @ 8'	SP1 @ 11'	SP1 @ 12'	SP1 @ 13'
		Date		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B			<2.00	8.8	0.482	<0.050	<0.050	n/a	<0.050
Toluene	BTEX 8021B			18.1	30.5	3	<0.050	<0.050	n/a	<0.050
Ethylbenzene	BTEX 8021B			21.8	73.4	8.46	<0.050	<0.050	n/a	<0.050
Total Xylenes	BTEX 8021B			86.6	186	24.5	<0.150	<0.150	n/a	<0.150
Total BTEX	BTEX 8021B			127	298	36.4	<0.300	<0.300	n/a	<0.300
Chloride	SM4500C-B			1230	2320	2000	1710	608	288	64
GRO	TPH 8015M			1860	3150	317	<10.0	<10.0	n/a	<10.0
DRO	TPH 8015M			9300	9910	2960	<10.0	<10.0	n/a	<10.0

Analyte	Method	Sample		SP2 @ 1'	SP2 @ 3'	SP2 @ 5'	SP2 @ 8'	SP2 @ 11'	SP2 @ 12'	SP2 @ 13'
		Date		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B			<2.00	3.38	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B			18	20	0.124	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B			21.4	15.8	0.062	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B			79.3	96.2	0.161	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B			119	135	0.347	n/a	n/a	n/a	n/a
Chloride	SM4500C-B			992	2280	336	656	592	272	64
GRO	TPH 8015M			1710	2070	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M			8730	10400	<10.0	n/a	n/a	n/a	n/a

Analyte	Method	Sample		SP3 @ 1'	SP3 @ 3'	SP3 @ 5'	SP3 @ 8'	SP3 @ 11'	SP3 @ 12'	SP3 @ 13'
		Date		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B			2.72	6.81	2.14	<0.050	<0.050	n/a	<0.050
Toluene	BTEX 8021B			23	44.9	17.4	<0.050	<0.050	n/a	<0.050
Ethylbenzene	BTEX 8021B			27.7	67.8	21.1	<0.050	<0.050	n/a	<0.050
Total Xylenes	BTEX 8021B			106	178	78.1	<0.150	<0.150	n/a	<0.150
Total BTEX	BTEX 8021B			159	297	119	<0.300	<0.300	n/a	<0.300
Chloride	SM4500C-B			928	2160	976	768	592	288	80
GRO	TPH 8015M			1860	3530	1640	<10.0	<10.0	n/a	<10.0
DRO	TPH 8015M			8420	12000	7860	<10.0	<10.0	n/a	<10.0

Analyte	Method	Sample		SP4 @ 1'	SP4 @ 3'	SP4 @ 5'	SP4 @ 8'	SP4 @ 11'	SP4 @ 12'	SP4 @ 13'
		Date		mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B			<0.200	<1.00	<1.00	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B			0.612	5.27	5.02	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B			1.12	17.4	15.4	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B			6.91	66.8	61.8	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B			8.64	89.5	82.2	n/a	n/a	n/a	n/a
Chloride	SM4500C-B			608	1940	1960	800	528	288	64
GRO	TPH 8015M			194	971	51.1	n/a	n/a	n/a	n/a
DRO	TPH 8015M			21900	8900	540	n/a	n/a	n/a	n/a

Laboratory Analytical Results Summary  
MLMU #247

Analyte	Method	Sample Date	SP5 @ 1'	SP5 @ 3'	SP5 @ 5'	SP5 @ 7'
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 400	< 0.050	< 0.050	n/a
Toluene	BTEX 8021B		2.84	0.905	0.848	n/a
Ethylbenzene	BTEX 8021B		2.89	2.16	2.37	n/a
Total Xylenes	BTEX 8021B		41.7	9.46	9.61	n/a
Total BTEX	BTEX 8021B		47.4	12.5	12.8	n/a
Chloride	SM4500C-B		1230	2440	2480	704
GRO	TPH 8015M		50.9	16.4	10.9	n/a
DRO	TPH 8015M		911	222	122	n/a

Analyte	Method	Sample Date	SP6 @ 1'	SP6 @ 3'	SP6 @ 5'	SP6 @ 7'
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.802	0.212	< 0.050	n/a
Toluene	BTEX 8021B		3.09	2.17	0.35	n/a
Ethylbenzene	BTEX 8021B		22.9	4.67	0.765	n/a
Total Xylenes	BTEX 8021B		62.9	16.2	3.24	n/a
Total BTEX	BTEX 8021B		89.8	23.2	4.35	n/a
Chloride	SM4500C-B		1250	2280	2320	432
GRO	TPH 8015M		305	27.3	< 10.0	n/a
DRO	TPH 8015M		3290	354	128	n/a

Analyte	Method	Sample Date	SP7 @ 1'	SP7 @ 3'	SP7 @ 5'	SP7 @ 7'
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.636	0.243	0.124	n/a
Toluene	BTEX 8021B		3.07	2.02	1.7	n/a
Ethylbenzene	BTEX 8021B		24.3	7.8	6.94	n/a
Total Xylenes	BTEX 8021B		67.3	27.7	24.9	n/a
Total BTEX	BTEX 8021B		95.3	37.8	33.7	n/a
Chloride	SM4500C-B		1140	2440	1920	720
GRO	TPH 8015M		261	38.2	34.8	n/a
DRO	TPH 8015M		3040	374	369	n/a



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August 05, 2013

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 07/30/13 16:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/26/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 1' (H301799-01)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<2.00	2.00	08/01/2013	ND	1.99	99.6	2.00	0.870		
Toluene*	18.1	2.00	08/01/2013	ND	1.94	97.1	2.00	0.758		
Ethylbenzene*	21.8	2.00	08/01/2013	ND	2.02	101	2.00	1.31		
Total Xylenes*	86.6	6.00	08/01/2013	ND	6.10	102	6.00	1.72		
<b>Total BTEX</b>	<b>127</b>	<b>12.0</b>	<b>08/01/2013</b>	<b>ND</b>						

Surrogate: 4-Bromofluorobenzene (PIE) 121 % 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	1230	16.0	08/01/2013	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	1860	50.0	08/01/2013	ND	183	91.5	200	10.9			
DRO >C10-C28	9300	50.0	08/01/2013	ND	190	95.0	200	10.7			

Surrogate: 1-Chlorooctane 171 % 65.2-140

Surrogate: 1-Chlorooctadecane 270 % 63.6-154

Cardinal Laboratories

\* = 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: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/26/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 3' (H301799-02)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>8.80</b>	2.00	08/02/2013	ND	1.93	96.5	2.00	8.06		
<b>Toluene*</b>	<b>30.5</b>	2.00	08/02/2013	ND	1.86	92.9	2.00	8.74		
<b>Ethylbenzene*</b>	<b>73.4</b>	2.00	08/02/2013	ND	1.98	99.0	2.00	8.72		
<b>Total Xylenes*</b>	<b>186</b>	6.00	08/02/2013	ND	5.80	96.7	6.00	9.06		
<b>Total BTEX</b>	<b>298</b>	12.0	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 116 % 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	
<b>Chloride</b>	<b>2320</b>	16.0	08/01/2013	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10</b>	<b>3150</b>	50.0	08/01/2013	ND	183	91.5	200	10.9			
<b>DRO &gt;C10-C28</b>	<b>9910</b>	50.0	08/01/2013	ND	190	95.0	200	10.7			

Surrogate: 1-Chlorooctane 176 % 65.2-140

Surrogate: 1-Chlorooctadecane 284 % 63.6-154

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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: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/26/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 5' (H301799-03)**

BTEX 8021B		mg/kg		Analyzed By: DW				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>0.482</b>	0.200	08/02/2013	ND	1.93	96.5	2.00	8.06		
<b>Toluene*</b>	<b>3.00</b>	0.200	08/02/2013	ND	1.86	92.9	2.00	8.74		
<b>Ethylbenzene*</b>	<b>8.46</b>	0.200	08/02/2013	ND	1.98	99.0	2.00	8.72		
<b>Total Xylenes*</b>	<b>24.5</b>	0.600	08/02/2013	ND	5.80	96.7	6.00	9.06		
<b>Total BTEX</b>	<b>36.4</b>	1.20	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 146 % 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	
<b>Chloride</b>	<b>2000</b>	16.0	08/01/2013	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS				S-06		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>317</b>	50.0	08/01/2013	ND	183	91.5	200	10.9		
<b>DRO &gt;C10-C28</b>	<b>2960</b>	50.0	08/01/2013	ND	190	95.0	200	10.7		

Surrogate: 1-Chlorooctane 128 % 65.2-140

Surrogate: 1-Chlorooctadecane 167 % 63.6-154

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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: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/26/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 1' (H301799-04)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<2.00	2.00	08/02/2013	ND	1.93	96.5	2.00	8.06		
Toluene*	18.0	2.00	08/02/2013	ND	1.86	92.9	2.00	8.74		
Ethylbenzene*	21.4	2.00	08/02/2013	ND	1.98	99.0	2.00	8.72		
Total Xylenes*	79.3	6.00	08/02/2013	ND	5.80	96.7	6.00	9.06		
<b>Total BTEX</b>	<b>119</b>	<b>12.0</b>	<b>08/02/2013</b>	<b>ND</b>						

Surrogate: 4-Bromofluorobenzene (PIC) 118 % 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	992	16.0	08/01/2013	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	1710	50.0	08/01/2013	ND	183	91.5	200	10.9			
DRO >C10-C28	8730	50.0	08/01/2013	ND	190	95.0	200	10.7			

Surrogate: 1-Chlorooctane 161 % 65.2-140

Surrogate: 1-Chlorooctadecane 284 % 63.6-154

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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: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/26/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 3' (H301799-05)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>3.38</b>	2.00	08/02/2013	ND	1.93	96.5	2.00	8.06		
<b>Toluene*</b>	<b>20.0</b>	2.00	08/02/2013	ND	1.86	92.9	2.00	8.74		
<b>Ethylbenzene*</b>	<b>15.8</b>	2.00	08/02/2013	ND	1.98	99.0	2.00	8.72		
<b>Total Xylenes*</b>	<b>96.2</b>	6.00	08/02/2013	ND	5.80	96.7	6.00	9.06		
<b>Total BTEX</b>	<b>135</b>	12.0	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 118 % 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	
<b>Chloride</b>	<b>2280</b>	16.0	08/01/2013	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10</b>	<b>2070</b>	50.0	08/01/2013	ND	183	91.5	200	10.9			
<b>DRO &gt;C10-C28</b>	<b>10400</b>	50.0	08/01/2013	ND	190	95.0	200	10.7			

Surrogate: 1-Chlorooctane 163 % 65.2-140

Surrogate: 1-Chlorooctadecane 308 % 63.6-154

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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: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/26/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 5' (H301799-06)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/02/2013	ND	1.93	96.5	2.00	8.06		
Toluene*	<b>0.124</b>	0.050	08/02/2013	ND	1.86	92.9	2.00	8.74		
Ethylbenzene*	<b>0.062</b>	0.050	08/02/2013	ND	1.98	99.0	2.00	8.72		
Total Xylenes*	<b>0.161</b>	0.150	08/02/2013	ND	5.80	96.7	6.00	9.06		
<b>Total BTEX</b>	<b>0.347</b>	0.300	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 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	
<b>Chloride</b>	<b>336</b>	16.0	08/01/2013	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	08/01/2013	ND	183	91.5	200	10.9		
DRO >C10-C28	<10.0	10.0	08/01/2013	ND	190	95.0	200	10.7		

Surrogate: 1-Chlorooctane 87.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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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: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/26/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 1' (H301799-07)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>2.72</b>	2.00	08/02/2013	ND	1.93	96.5	2.00	8.06		
<b>Toluene*</b>	<b>23.0</b>	2.00	08/02/2013	ND	1.86	92.9	2.00	8.74		
<b>Ethylbenzene*</b>	<b>27.7</b>	2.00	08/02/2013	ND	1.98	99.0	2.00	8.72		
<b>Total Xylenes*</b>	<b>106</b>	6.00	08/02/2013	ND	5.80	96.7	6.00	9.06		
<b>Total BTEX</b>	<b>159</b>	12.0	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 121 % 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	
<b>Chloride</b>	<b>928</b>	16.0	08/01/2013	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10</b>	<b>1860</b>	50.0	08/01/2013	ND	183	91.5	200	10.9			
<b>DRO &gt;C10-C28</b>	<b>8420</b>	50.0	08/01/2013	ND	190	95.0	200	10.7			

Surrogate: 1-Chlorooctane 154 % 65.2-140

Surrogate: 1-Chlorooctadecane 242 % 63.6-154

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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: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/26/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 3' (H301799-08)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>6.81</b>	4.00	08/02/2013	ND	1.93	96.5	2.00	8.06		
<b>Toluene*</b>	<b>44.9</b>	4.00	08/02/2013	ND	1.86	92.9	2.00	8.74		
<b>Ethylbenzene*</b>	<b>67.8</b>	4.00	08/02/2013	ND	1.98	99.0	2.00	8.72		
<b>Total Xylenes*</b>	<b>178</b>	12.0	08/02/2013	ND	5.80	96.7	6.00	9.06		
<b>Total BTEX</b>	<b>297</b>	24.0	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 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	
<b>Chloride</b>	<b>2160</b>	16.0	08/01/2013	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10</b>	<b>3530</b>	50.0	08/01/2013	ND	183	91.5	200	10.9			
<b>DRO &gt;C10-C28</b>	<b>12000</b>	50.0	08/01/2013	ND	190	95.0	200	10.7			

Surrogate: 1-Chlorooctane 180 % 65.2-140

Surrogate: 1-Chlorooctadecane 346 % 63.6-154

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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: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/26/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 5' (H301799-09)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>2.14</b>	2.00	08/02/2013	ND	1.93	96.5	2.00	8.06		
<b>Toluene*</b>	<b>17.4</b>	2.00	08/02/2013	ND	1.86	92.9	2.00	8.74		
<b>Ethylbenzene*</b>	<b>21.1</b>	2.00	08/02/2013	ND	1.98	99.0	2.00	8.72		
<b>Total Xylenes*</b>	<b>78.1</b>	6.00	08/02/2013	ND	5.80	96.7	6.00	9.06		
<b>Total BTEX</b>	<b>119</b>	12.0	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 118 % 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	
<b>Chloride</b>	<b>976</b>	16.0	08/01/2013	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10</b>	<b>1640</b>	50.0	08/01/2013	ND	183	91.5	200	10.9			
<b>DRO &gt;C10-C28</b>	<b>7860</b>	50.0	08/01/2013	ND	190	95.0	200	10.7			

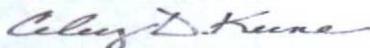
Surrogate: 1-Chlorooctane 158 % 65.2-140

Surrogate: 1-Chlorooctadecane 228 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/26/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 1' (H301799-10)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.200	0.200	08/02/2013	ND	1.93	96.5	2.00	8.06		
Toluene*	<b>0.612</b>	0.200	08/02/2013	ND	1.86	92.9	2.00	8.74		
Ethylbenzene*	<b>1.12</b>	0.200	08/02/2013	ND	1.98	99.0	2.00	8.72		
Total Xylenes*	<b>6.91</b>	0.600	08/02/2013	ND	5.80	96.7	6.00	9.06		
<b>Total BTEX</b>	<b>8.64</b>	1.20	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 125 % 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	
<b>Chloride</b>	<b>608</b>	16.0	08/01/2013	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10</b>	<b>194</b>	100	08/01/2013	ND	183	91.5	200	10.9			
<b>DRO &gt;C10-C28</b>	<b>21900</b>	100	08/01/2013	ND	190	95.0	200	10.7			

Surrogate: 1-Chlorooctane 123 % 65.2-140

Surrogate: 1-Chlorooctadecane 953 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/26/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 3' (H301799-11)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<1.00	1.00	08/02/2013	ND	2.21	110	2.00	4.37		
Toluene*	5.27	1.00	08/02/2013	ND	2.16	108	2.00	4.56		
Ethylbenzene*	17.4	1.00	08/02/2013	ND	2.29	114	2.00	4.01		
Total Xylenes*	66.8	3.00	08/02/2013	ND	6.88	115	6.00	3.56		
<b>Total BTEX</b>	<b>89.5</b>	<b>6.00</b>	<b>08/02/2013</b>	<b>ND</b>						

Surrogate: 4-Bromofluorobenzene (PIE) 126 % 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	1940	16.0	08/01/2013	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	971	50.0	08/02/2013	ND	181	90.5	200	4.59			
DRO >C10-C28	8900	50.0	08/02/2013	ND	191	95.6	200	3.53			

Surrogate: 1-Chlorooctane 141 % 65.2-140

Surrogate: 1-Chlorooctadecane 279 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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 Fax To: (575) 397-0397

 Received: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/26/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 5' (H301799-12)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<1.00	1.00	08/02/2013	ND	2.21	110	2.00	4.37		
Toluene*	5.02	1.00	08/02/2013	ND	2.16	108	2.00	4.56		
Ethylbenzene*	15.4	1.00	08/02/2013	ND	2.29	114	2.00	4.01		
Total Xylenes*	61.8	3.00	08/02/2013	ND	6.88	115	6.00	3.56		
<b>Total BTEX</b>	<b>82.2</b>	<b>6.00</b>	<b>08/02/2013</b>	<b>ND</b>						

Surrogate: 4-Bromofluorobenzene (PII) 123 % 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	1960	16.0	08/01/2013	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	51.1	10.0	08/02/2013	ND	181	90.5	200	4.59		
DRO >C10-C28	540	10.0	08/02/2013	ND	191	95.6	200	3.53		

Surrogate: 1-Chlorooctane 86.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

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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: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/29/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 5 @ 1' (H301799-13)**

BTEX 8021B		mg/kg		Analyzed By: DW				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.400	0.400	08/02/2013	ND	2.21	110	2.00	4.37		
Toluene*	<b>2.84</b>	0.400	08/02/2013	ND	2.16	108	2.00	4.56		
Ethylbenzene*	<b>2.89</b>	0.400	08/02/2013	ND	2.29	114	2.00	4.01		
Total Xylenes*	<b>41.7</b>	1.20	08/02/2013	ND	6.88	115	6.00	3.56		
<b>Total BTEX</b>	<b>47.4</b>	2.40	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 149 % 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	
<b>Chloride</b>	<b>1230</b>	16.0	08/01/2013	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	
<b>GRO C6-C10</b>	<b>50.9</b>	10.0	08/02/2013	ND	181	90.5	200	4.59		
<b>DRO &gt;C10-C28</b>	<b>911</b>	10.0	08/02/2013	ND	191	95.6	200	3.53		

Surrogate: 1-Chlorooctane 73.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.9 % 63.6-154

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 Fax To: (575) 397-0397

 Received: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/29/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 5 @ 3' (H301799-14)**

BTEX 8021B		mg/kg		Analyzed By: DW				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/02/2013	ND	2.21	110	2.00	4.37		
Toluene*	<b>0.905</b>	0.050	08/02/2013	ND	2.16	108	2.00	4.56		
Ethylbenzene*	<b>2.16</b>	0.050	08/02/2013	ND	2.29	114	2.00	4.01		
Total Xylenes*	<b>9.46</b>	0.150	08/02/2013	ND	6.88	115	6.00	3.56		
<b>Total BTEX</b>	<b>12.5</b>	0.300	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 212 % 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	<b>2440</b>	16.0	08/01/2013	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	<b>16.4</b>	10.0	08/01/2013	ND	181	90.5	200	4.59		
DRO >C10-C28	<b>222</b>	10.0	08/01/2013	ND	191	95.6	200	3.53		

Surrogate: 1-Chlorooctane 90.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

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

 Received: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/29/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 5 @ 5' (H301799-15)**

BTEX 8021B		mg/kg		Analyzed By: DW				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/02/2013	ND	2.21	110	2.00	4.37		
Toluene*	<b>0.848</b>	0.050	08/02/2013	ND	2.16	108	2.00	4.56		
Ethylbenzene*	<b>2.37</b>	0.050	08/02/2013	ND	2.29	114	2.00	4.01		
Total Xylenes*	<b>9.61</b>	0.150	08/02/2013	ND	6.88	115	6.00	3.56		
<b>Total BTEX</b>	<b>12.8</b>	0.300	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 216 % 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	<b>2480</b>	16.0	08/01/2013	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	<b>10.9</b>	10.0	08/01/2013	ND	181	90.5	200	4.59		
DRO >C10-C28	<b>122</b>	10.0	08/01/2013	ND	191	95.6	200	3.53		

Surrogate: 1-Chlorooctane 87.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

Cardinal Laboratories

\*=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: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/29/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 6 @ 1' (H301799-16)**

BTEX 8021B		mg/kg		Analyzed By: DW					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>0.802</b>	0.200	08/02/2013	ND	2.21	110	2.00	4.37		
<b>Toluene*</b>	<b>3.09</b>	0.200	08/02/2013	ND	2.16	108	2.00	4.56		
<b>Ethylbenzene*</b>	<b>22.9</b>	0.200	08/02/2013	ND	2.29	114	2.00	4.01		
<b>Total Xylenes*</b>	<b>62.9</b>	0.600	08/02/2013	ND	6.88	115	6.00	3.56		
<b>Total BTEX</b>	<b>89.8</b>	1.20	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 200 % 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	
<b>Chloride</b>	<b>1250</b>	16.0	08/01/2013	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	
<b>GRO C6-C10</b>	<b>305</b>	100	08/02/2013	ND	181	90.5	200	4.59		
<b>DRO &gt;C10-C28</b>	<b>3290</b>	100	08/02/2013	ND	191	95.6	200	3.53		

Surrogate: 1-Chlorooctane 104 % 65.2-140

Surrogate: 1-Chlorooctadecane 125 % 63.6-154

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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: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/29/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 6 @ 3' (H301799-17)**

BTEX 8021B		mg/kg		Analyzed By: DW				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>0.212</b>	0.050	08/02/2013	ND	2.21	110	2.00	4.37		
<b>Toluene*</b>	<b>2.17</b>	0.050	08/02/2013	ND	2.16	108	2.00	4.56		
<b>Ethylbenzene*</b>	<b>4.67</b>	0.050	08/02/2013	ND	2.29	114	2.00	4.01		
<b>Total Xylenes*</b>	<b>16.2</b>	0.150	08/02/2013	ND	6.88	115	6.00	3.56		
<b>Total BTEX</b>	<b>23.2</b>	0.300	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 240 % 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	
<b>Chloride</b>	<b>2280</b>	16.0	08/01/2013	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	
<b>GRO C6-C10</b>	<b>27.3</b>	10.0	08/01/2013	ND	181	90.5	200	4.59		
<b>DRO &gt;C10-C28</b>	<b>354</b>	10.0	08/01/2013	ND	191	95.6	200	3.53		

Surrogate: 1-Chlorooctane 92.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

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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: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/29/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 6 @ 5' (H301799-18)**

BTEX 8021B		mg/kg		Analyzed By: DW				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/02/2013	ND	2.21	110	2.00	4.37		
Toluene*	<b>0.350</b>	0.050	08/02/2013	ND	2.16	108	2.00	4.56		
Ethylbenzene*	<b>0.765</b>	0.050	08/02/2013	ND	2.29	114	2.00	4.01		
Total Xylenes*	<b>3.24</b>	0.150	08/02/2013	ND	6.88	115	6.00	3.56		
<b>Total BTEX</b>	<b>4.35</b>	0.300	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 154 % 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	<b>2320</b>	16.0	08/01/2013	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	08/01/2013	ND	181	90.5	200	4.59		
<b>DRO &gt;C10-C28</b>	<b>128</b>	10.0	08/01/2013	ND	191	95.6	200	3.53		

Surrogate: 1-Chlorooctane 84.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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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: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/29/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 7 @ 1' (H301799-19)**

BTEX 8021B		mg/kg		Analyzed By: DW				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>0.636</b>	0.200	08/02/2013	ND	2.21	110	2.00	4.37		
<b>Toluene*</b>	<b>3.07</b>	0.200	08/02/2013	ND	2.16	108	2.00	4.56		
<b>Ethylbenzene*</b>	<b>24.3</b>	0.200	08/02/2013	ND	2.29	114	2.00	4.01		
<b>Total Xylenes*</b>	<b>67.3</b>	0.600	08/02/2013	ND	6.88	115	6.00	3.56		
<b>Total BTEX</b>	<b>95.3</b>	1.20	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 214 % 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	
<b>Chloride</b>	<b>1140</b>	16.0	08/01/2013	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	
<b>GRO C6-C10</b>	<b>261</b>	100	08/02/2013	ND	181	90.5	200	4.59		
<b>DRO &gt;C10-C28</b>	<b>3040</b>	100	08/02/2013	ND	191	95.6	200	3.53		

Surrogate: 1-Chlorooctane 96.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 120 % 63.6-154

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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: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/29/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 7 @ 3' (H301799-20)**

BTEX 8021B		mg/kg		Analyzed By: DW					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>0.243</b>	0.050	08/02/2013	ND	2.21	110	2.00	4.37		
<b>Toluene*</b>	<b>2.02</b>	0.050	08/02/2013	ND	2.16	108	2.00	4.56		
<b>Ethylbenzene*</b>	<b>7.80</b>	0.050	08/02/2013	ND	2.29	114	2.00	4.01		
<b>Total Xylenes*</b>	<b>27.7</b>	0.150	08/02/2013	ND	6.88	115	6.00	3.56		
<b>Total BTEX</b>	<b>37.8</b>	0.300	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 306 % 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	
<b>Chloride</b>	<b>2440</b>	16.0	08/01/2013	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	
<b>GRO C6-C10</b>	<b>38.2</b>	10.0	08/01/2013	ND	181	90.5	200	4.59		
<b>DRO &gt;C10-C28</b>	<b>374</b>	10.0	08/01/2013	ND	191	95.6	200	3.53		

Surrogate: 1-Chlorooctane 89.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

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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: 07/30/2013  
 Reported: 08/05/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 07/29/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 7 @ 5' (H301799-21)**

BTEX 8021B		mg/kg		Analyzed By: DW					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>0.124</b>	0.050	08/02/2013	ND	2.21	110	2.00	4.37		
<b>Toluene*</b>	<b>1.70</b>	0.050	08/02/2013	ND	2.16	108	2.00	4.56		
<b>Ethylbenzene*</b>	<b>6.94</b>	0.050	08/02/2013	ND	2.29	114	2.00	4.01		
<b>Total Xylenes*</b>	<b>24.9</b>	0.150	08/02/2013	ND	6.88	115	6.00	3.56		
<b>Total BTEX</b>	<b>33.7</b>	0.300	08/02/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 316 % 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	
<b>Chloride</b>	<b>1920</b>	16.0	08/01/2013	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	
<b>GRO C6-C10</b>	<b>34.8</b>	10.0	08/02/2013	ND	181	90.5	200	4.59		
<b>DRO &gt;C10-C28</b>	<b>369</b>	10.0	08/02/2013	ND	191	95.6	200	3.53		

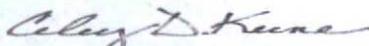
Surrogate: 1-Chlorooctane 92.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- 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



**CARDINAL LABORATORIES**

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

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

1 of 3

Company Name: **BBC International, Inc.** P.O. #: **BILL TO** ANALYSIS REQUEST

Project Manager: **Cliff Brunson** Company: **Company:**

Address: **P.O. Box 805** Attn: **Attn:**

City: **Hobbs** State: **NM** Zip: **88241** Address: **SAME**

Phone #: **575-397-6388** Fax #: **575-397-0397** City: **City:**

Project #: **Project Owner: DW** State: **State:** Zip: **Zip:**

Project Name: **MLM # 247** Phone #: **Phone #:**

Project Location: **Project Name: MLM # 247** Fax #: **Fax #:**

Sampler Name: **Roger Hammond** FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G/RAB OR C) COMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:					
H30199														
1	SP1 @ 1'	G	1	✓								7-16-13	015	✓
2	SP1 @ 3'	G	1	✓								7-16-13	048	✓
3	SP1 @ 5'	G	1	✓								7-16-13	1040	✓
4	SP2 @ 1'	G	1	✓								7-16-13	1110	✓
5	SP2 @ 3'	G	1	✓								7-16-13	1146	✓
6	SP3 @ 1'	G	1	✓								7-16-13	1210	✓
7	SP3 @ 1'	G	1	✓								7-16-13	1242	✓
8	SP3 @ 3'	G	1	✓								7-16-13	1740	✓
9	SP3 @ 5'	G	1	✓								7-16-13	1559	✓
10	SP4 @ 1'	G	1	✓								7-16-13	1750	✓

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Relinquished By: **P. Hammond** Date: **7-20-13** Time: **4:55**

Received By: **Chadi Henderson** Date: **7-20-13** Time: **4:55**

Delivered By: (Circle One) **UPS**  **UPS**  **Bus**  **Other**

Sample Condition:  **Good**  **Other**  **Other**

CHECKED BY: **[Signature]**

REMARKS: **#54**

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



**CARDINAL LABORATORIES**

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

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

283

Company Name: **BBC International, Inc.** P.O. #: **BILL TO** ANALYSIS REQUEST

Project Manager: **Cliff Brunson** Company:

Address: **P.O. Box 805** State: **NM** Zip: **88241** City: **Hobbs**

Phone #: **575-397-6388** Fax #: **575-397-0397** Address: **SA ME**

Project #: **MLM # 247** Project Owner: **OKY** City:

Project Name: **MLM # 247** State: **OKY** Zip:

Project Location: **Payce Hernandez** Phone #:

Sampler Name: **Payce Hernandez** Fax #:

For Lab Use Only:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:				
H30799	SP4 @ 3'	C	1	<input checked="" type="checkbox"/>	7-26-13	258	CHLORIDE	<input checked="" type="checkbox"/>					
	12 SP5 @ 1'	C	1	<input checked="" type="checkbox"/>	7-26-13	325	TPH	<input checked="" type="checkbox"/>					
	13 SP5 @ 1'	C	1	<input checked="" type="checkbox"/>	7-29-13	930	BTEX	<input checked="" type="checkbox"/>					
	14 SP5 @ 3'	C	1	<input checked="" type="checkbox"/>	7-29-13	1008		<input checked="" type="checkbox"/>					
	15 SP6 @ 1'	C	1	<input checked="" type="checkbox"/>	7-19-13	1137		<input checked="" type="checkbox"/>					
	16 SP6 @ 1'	C	1	<input checked="" type="checkbox"/>	7-19-13	1705		<input checked="" type="checkbox"/>					
	17 @ 5'	C	1	<input checked="" type="checkbox"/>	7-19-13	1228		<input checked="" type="checkbox"/>					
	18 @ 5'	C	1	<input checked="" type="checkbox"/>	7-19-13	1258		<input checked="" type="checkbox"/>					
	19 SP7 @ 1'	C	1	<input checked="" type="checkbox"/>	7-29-13	1337		<input checked="" type="checkbox"/>					
	20 @ 3'	C	1	<input checked="" type="checkbox"/>	7-29-13	1337		<input checked="" type="checkbox"/>					

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Relinquished By: **Payce Hernandez** Date: **7/20/13** Time: **4:55** Received By: **Spodi Anderson**

Delivered By: (Circle One) **-40** Sample Condition:  Intact  Cool  No  Yes  No  Yes

Sampler - UPS - Bus - Other: **-40** CHECKED BY: **[Signature]**

Phone Result:  Yes  No Add'l Phone #:

Fax Result:  Yes  No Add'l Fax #:

REMARKS:

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

- #54





September 20, 2013

Cliff Brunson  
BBC International, Inc.  
P.O. Box 805  
Hobbs, NM 88241

HOBBS OCD

FEB 07 2014

RECEIVED

RE: MLMU #247

Enclosed are the results of analyses for samples received by the laboratory on 09/16/13 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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: 09/16/2013  
 Reported: 09/20/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 09/11/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 8' (H302231-01)**

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	09/19/2013	ND	1.85	92.3	2.00	11.7		
Toluene*	<0.050	0.050	09/19/2013	ND	1.86	93.0	2.00	10.4		
Ethylbenzene*	<0.050	0.050	09/19/2013	ND	1.91	95.4	2.00	10.8		
Total Xylenes*	<0.150	0.150	09/19/2013	ND	5.75	95.8	6.00	10.2		
Total BTEX	<0.300	0.300	09/19/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 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	1710	16.0	09/18/2013	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/18/2013	ND	198	99.1	200	0.103		
DRO >C10-C28	<10.0	10.0	09/18/2013	ND	189	94.7	200	2.84		

Surrogate: 1-Chlorooctane 116 % 65.2-140

Surrogate: 1-Chlorooctadecane 123 % 63.6-154

Cardinal Laboratories

\*=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: 09/16/2013  
 Reported: 09/20/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 09/11/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 11' (H302231-02)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/19/2013	ND	1.85	92.3	2.00	11.7		
Toluene*	<0.050	0.050	09/19/2013	ND	1.86	93.0	2.00	10.4		
Ethylbenzene*	<0.050	0.050	09/19/2013	ND	1.91	95.4	2.00	10.8		
Total Xylenes*	<0.150	0.150	09/19/2013	ND	5.75	95.8	6.00	10.2		
Total BTEX	<0.300	0.300	09/19/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 108 % 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	608	16.0	09/18/2013	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/18/2013	ND	198	99.1	200	0.103		
DRO >C10-C28	<10.0	10.0	09/18/2013	ND	189	94.7	200	2.84		

Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

**Sample ID: SP 1 @ 12' (H302231-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	09/18/2013	ND	416	104	400	3.77		

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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: 09/16/2013  
 Reported: 09/20/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 09/11/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 13' (H302231-04)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/19/2013	ND	1.85	92.3	2.00	11.7		
Toluene*	<0.050	0.050	09/19/2013	ND	1.86	93.0	2.00	10.4		
Ethylbenzene*	<0.050	0.050	09/19/2013	ND	1.91	95.4	2.00	10.8		
Total Xylenes*	<0.150	0.150	09/19/2013	ND	5.75	95.8	6.00	10.2		
Total BTEX	<0.300	0.300	09/19/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 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	64.0	16.0	09/18/2013	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/18/2013	ND	198	99.1	200	0.103		
DRO >C10-C28	<10.0	10.0	09/18/2013	ND	189	94.7	200	2.84		

Surrogate: 1-Chlorooctane 118 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 63.6-154

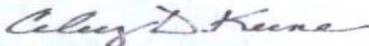
**Sample ID: SP 2 @ 8' (H302231-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	09/18/2013	ND	416	104	400	3.77		

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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: 09/16/2013  
 Reported: 09/20/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 09/11/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 11' (H302231-06)**

Chloride, SM4500CI-B	mg/kg	Analyzed By: AP								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	09/18/2013	ND	416	104	400	3.77		

**Sample ID: SP 2 @ 12' (H302231-07)**

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	09/18/2013	ND	416	104	400	3.77		

**Sample ID: SP 2 @ 13' (H302231-08)**

Chloride, SM4500CI-B	mg/kg	Analyzed By: AP								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/18/2013	ND	416	104	400	3.77		

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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: 09/16/2013  
 Reported: 09/20/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 09/11/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 8' (H302231-09)**

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	09/19/2013	ND	1.85	92.3	2.00	11.7		
Toluene*	<0.050	0.050	09/19/2013	ND	1.86	93.0	2.00	10.4		
Ethylbenzene*	<0.050	0.050	09/19/2013	ND	1.91	95.4	2.00	10.8		
Total Xylenes*	<0.150	0.150	09/19/2013	ND	5.75	95.8	6.00	10.2		
Total BTEX	<0.300	0.300	09/19/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 105 % 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	<b>768</b>	16.0	09/18/2013	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/18/2013	ND	198	99.1	200	0.103		
DRO >C10-C28	<10.0	10.0	09/18/2013	ND	189	94.7	200	2.84		

Surrogate: 1-Chlorooctane 114 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 63.6-154

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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: 09/16/2013  
 Reported: 09/20/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 09/11/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 11' (H302231-10)**

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	09/19/2013	ND	1.85	92.3	2.00	11.7		
Toluene*	<0.050	0.050	09/19/2013	ND	1.86	93.0	2.00	10.4		
Ethylbenzene*	<0.050	0.050	09/19/2013	ND	1.91	95.4	2.00	10.8		
Total Xylenes*	<0.150	0.150	09/19/2013	ND	5.75	95.8	6.00	10.2		
Total BTEX	<0.300	0.300	09/19/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 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	592	16.0	09/18/2013	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/18/2013	ND	198	99.1	200	0.103		
DRO >C10-C28	<10.0	10.0	09/18/2013	ND	189	94.7	200	2.84		

Surrogate: 1-Chlorooctane 119 % 65.2-140

Surrogate: 1-Chlorooctadecane 128 % 63.6-154

**Sample ID: SP 3 @ 12' (H302231-11)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	09/18/2013	ND	416	104	400	3.77		

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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: 09/16/2013  
 Reported: 09/20/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 09/11/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 13' (H302231-12)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/19/2013	ND	1.85	92.3	2.00	11.7		
Toluene*	<0.050	0.050	09/19/2013	ND	1.86	93.0	2.00	10.4		
Ethylbenzene*	<0.050	0.050	09/19/2013	ND	1.91	95.4	2.00	10.8		
Total Xylenes*	<0.150	0.150	09/19/2013	ND	5.75	95.8	6.00	10.2		
Total BTEX	<0.300	0.300	09/19/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 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	80.0	16.0	09/18/2013	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/18/2013	ND	198	99.1	200	0.103		
DRO >C10-C28	<10.0	10.0	09/18/2013	ND	189	94.7	200	2.84		

Surrogate: 1-Chlorooctane 122 % 65.2-140

Surrogate: 1-Chlorooctadecane 131 % 63.6-154

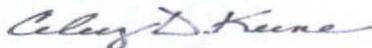
**Sample ID: SP 4 @ 8' (H302231-13)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	09/18/2013	ND	416	104	400	3.77		

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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: 09/16/2013  
 Reported: 09/20/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 09/11/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 11' (H302231-14)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	09/18/2013	ND	416	104	400	3.77		

**Sample ID: SP 4 @ 12' (H302231-15)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	09/18/2013	ND	416	104	400	3.77		

**Sample ID: SP 4 @ 13' (H302231-16)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	09/17/2013	ND	416	104	400	3.77		

**Sample ID: SP 5 @ 7' (H302231-17)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	704	16.0	09/17/2013	ND	416	104	400	3.77		

**Sample ID: SP 6 @ 7' (H302231-18)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	09/17/2013	ND	416	104	400	3.77		

Cardinal Laboratories

\*=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: 09/16/2013  
 Reported: 09/20/2013  
 Project Name: MLMU #247  
 Project Number: NONE GIVEN  
 Project Location: JAL, NEW MEXICO

 Sampling Date: 09/13/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 7 @ 7' (H302231-19)**

Chloride, SM4500Cl-B

mg/kg

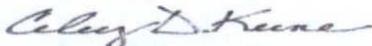
Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	09/17/2013	ND	416	104	400	3.77	

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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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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





# CARDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2/12

Company Name: <b>BGC International, Inc.</b>		P.O. #		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>					
Project Manager: <b>Cliff Brunson</b>		Company:									
Address: <b>P.O. Box 805</b>		City:									
City: <b>Hobbs</b>		State: <b>NM</b>		Zip: <b>88241</b>							
Phone #: <b>575-397-6388</b>		Fax #: <b>575-397-0397</b>		Address: <b>SAME</b>							
Project #: <b>575-397-6388</b>		Project Owner: <b>OKY</b>		City:							
Project Name: <b>BALM V #297</b>		State:		Zip:							
Project Location:		Phone #:									
Sampler Name: <b>ROGER HERNANDEZ</b>		Fax #:									
Lab I.D. <b>H300231</b>		Sample I.D.									
11 SP3 @ 12'		C		G		9.1.13		159		CL-TPH-BTEX	
12 SP3 @ 13'		C		G		9.1.13		211			
13 SP4 @ 9'		C		G		9.1.13		248			
14 SP4 @ 11'		C		G		9.1.13		324			
15 SP4 @ 11'		C		G		9.1.13		338			
16 SP5 @ 13'		C		G		9.1.13		347			
17 SP6 @ 7'		C		G		9.1.13		1030			
18 SP6 @ 7'		C		G		9.1.13		1120			
19 SP7 @ 7'		C		G		9.1.13		1209			

PLEASE NOTE: Cardiac and Diagnostic Center's facility and client's procedures require for any chain of custody procedure to be certified or not, shall be based on the amount paid by the client for the analysis. All testing including those for hydrocarbons and any other chain of custody procedure shall be performed under written and received by Cardinal within 30 days after completion of the applicable analysis. If no event shall Cardinal be liable for hydrocarbons or other chain of custody procedure, including without limitation, hazardous waste, toxic substances, lead, asbestos, or any other chain of custody procedure, unless specifically stated otherwise on the invoice or other documents. Cardinal shall not be liable for any chain of custody procedure unless specifically stated otherwise on the invoice or other documents.

Relinquished By: *[Signature]* Date: **9.16.13** Time: **11:10**

Received By: *[Signature]* Date: **9.16.13** Time: **11:10**

Relinquished By: *[Signature]* Date: **9.16.13** Time: **11:10**

Received By: *[Signature]* Date: **9.16.13** Time: **11:10**

Delivered By: (Circle One) **UPS** - Bus - Other: **Other**

Sample Condition:  Intact  Broken

Checked By: *[Signature]*

Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476 #54

**Leking, Geoffrey R, EMNRD**

---

**From:** Cliff P. Brunson <cbrunson@bbcinternational.com>  
**Sent:** Tuesday, September 11, 2012 8:01 PM  
**To:** Leking, Geoffrey R, EMNRD  
**Cc:** C J Summers; Ken Swinney; Kathy Purvis; Jennifer Gilkey  
**Subject:** Oxy - MLMU #247  
**Attachments:** Remediation Packet- MLMU #247 - 2.pdf

Geoff,

This e-mail is to confirm our discussion on August 31, 2012 concerning the remediation plan for the release that occurred at the Oxy MLMU #247. As agreed, Oxy will excavate 3 feet in the areas covered by SP1 and SP3 as depicted on the attached site diagram and then place a compacted clay liner in the excavation and backfill with clean soil. The area around SP2 has already been remediated. The depth to groundwater in this area is approximately 100 feet.

I have attached the site drawing and the summary of the laboratory data we reviewed during our discussion for your files. If you would please reply back via e-mail with your concurrence of this remediation plan, it would be greatly appreciated.

Oxy and I thank you for your assistance in handling this matter.

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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# Groundwater Plot

## Oxy MLMU #247

County  
Lea County

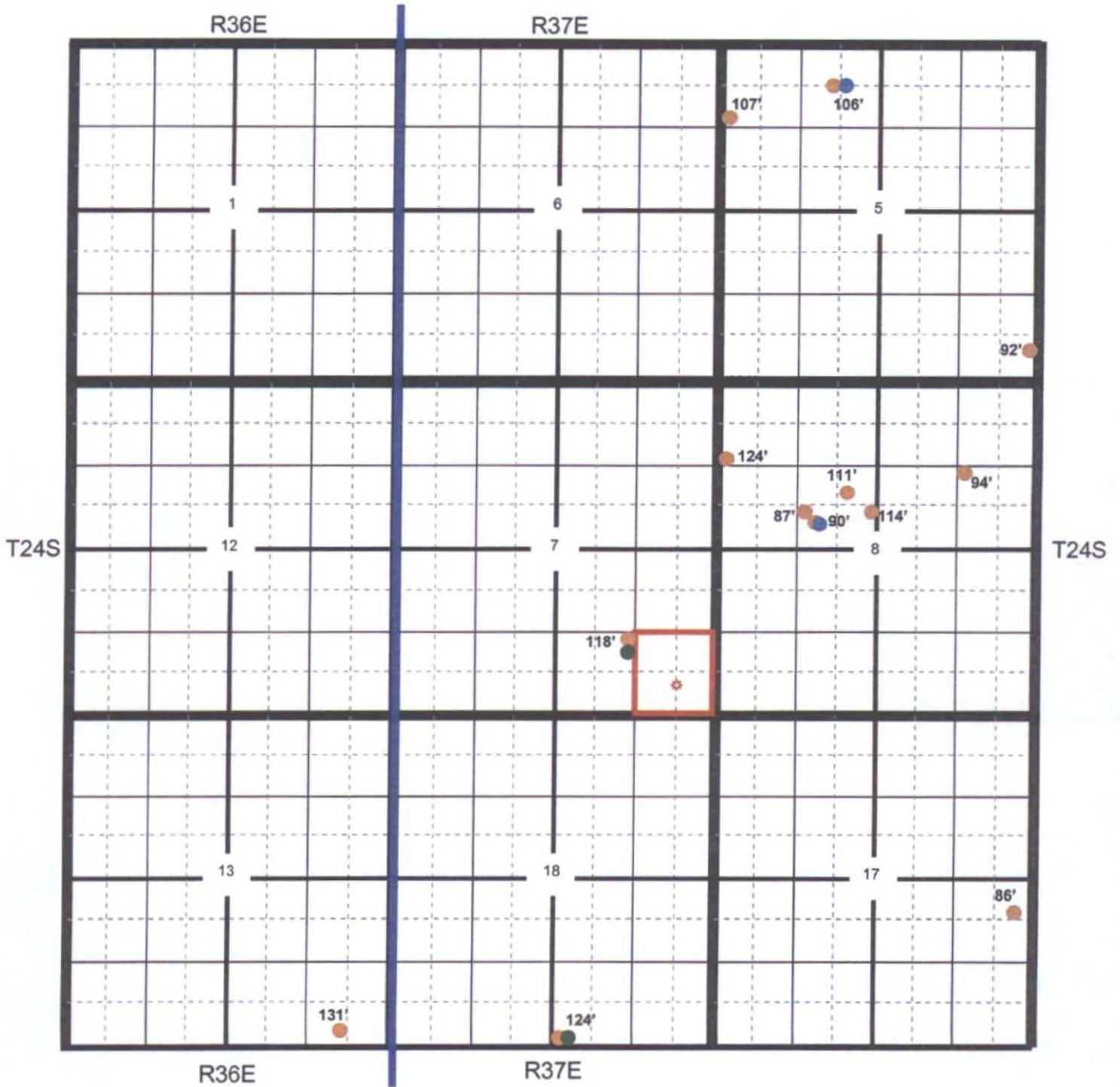
Unit Letter  
P

Section  
7

Township  
24S

Range  
37E

Trend Map 100'



- ★ Location
- OCD
- USGS
- SEO
- All Databases

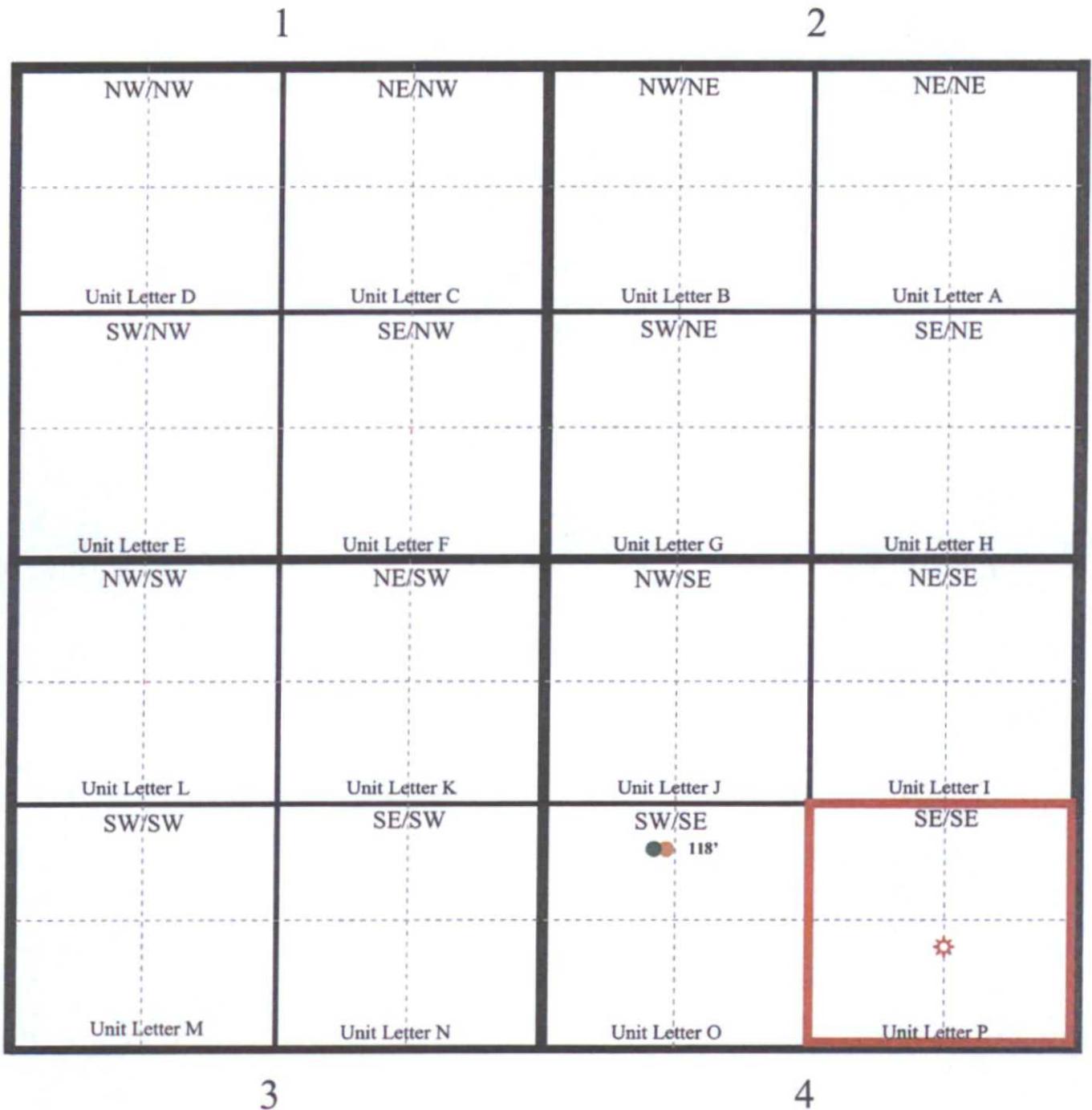


Section Quarters

Oxy MLMU #247

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

Trend Map 100'

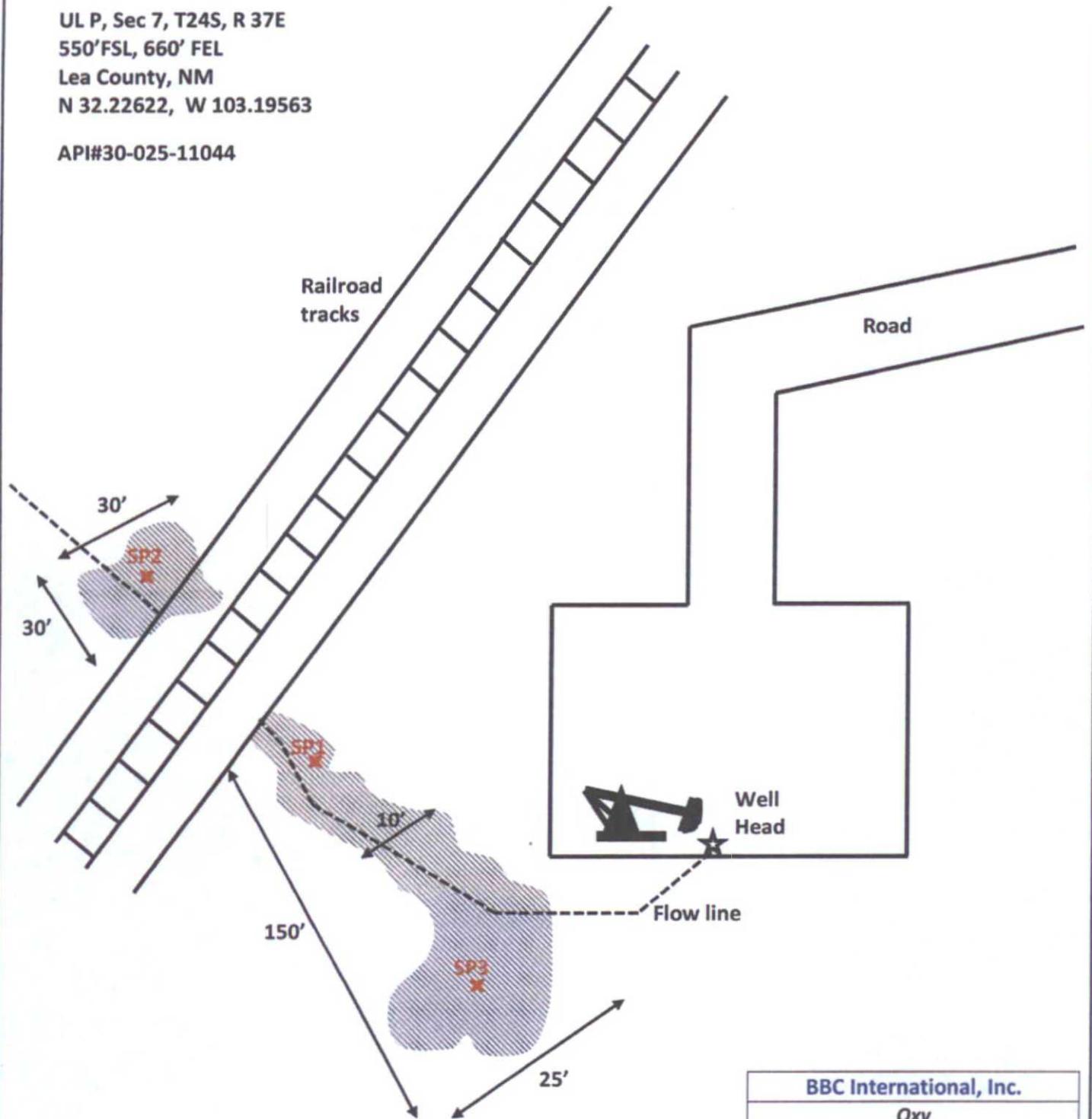


- ★ Location
- OCD
- USGS
- SEO
- All Databases

Oxy  
MLMU #247



UL P, Sec 7, T24S, R 37E  
550' FSL, 660' FEL  
Lea County, NM  
N 32.22622, W 103.19563  
API#30-025-11044



BBC International, Inc.	
Oxy MLMU #247	
Date: 1/16/12	DRWG by: KAP
Not to Scale	File: Oxy 2012

Laboratory Analytical Results Summary  
 OXY, MLMU #247

Analyte	Method	Sample Date	SP1 @ SURFACE	SP1 @ 2'	SP1 @ 5'	SP1 @ 8'	SP2 @ SURFACE	SP2 @ 2'	SP2 @ 3'
			5/11/12	5/11/12	5/11/12	5/11/12	5/11/12	5/11/12	5/11/12
Benzene	BTEX 8021B		mg/Kg <0.050						
Toluene	BTEX 8021B		mg/Kg <0.050						
Ethylbenzene	BTEX 8021B		mg/Kg <0.050						
Total Xylenes	BTEX 8021B		0.212	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Chloride	SM4500Cl-B		2480	1180	752	2440	32	32	32
GRO	TPH 8015M		22.5	<20.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		3380	103	218	140	89.4	<10.0	<10.0

Analyte	Method	Sample Date	SP1 @ 11'	SP1 @ 14'	SP1 @ 17'	SP3 @ SURFACE	SP3 @ 2'	SP3 @ 5'	SP3 @ 8'	SP3 @ 11'	SP3 @ 14'	SP3 @ 17'
			5/18/12	5/18/12	5/18/12	5/18/12	5/18/12	5/18/12	5/18/12	5/18/12	5/21/12	5/21/12
Benzene	BTEX 8021B		mg/Kg <0.050									
Toluene	BTEX 8021B		mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	0.098	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050
Ethylbenzene	BTEX 8021B		mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	mg/Kg <0.050	0.193	mg/Kg <0.050	mg/Kg <0.050	0.145	mg/Kg <0.050	mg/Kg <0.050
Total Xylenes	BTEX 8021B		mg/Kg <0.150	mg/Kg <0.150	mg/Kg <0.150	mg/Kg <0.150	2.79	mg/Kg <0.150	mg/Kg <0.150	0.465	mg/Kg <0.150	mg/Kg <0.150
Chloride	SM4500Cl-B		1650	2000	1650	176	752	1600	2040	1500	1470	1700
GRO	TPH 8015M		<10.0	<10.0	<10.0	<50.0	328	<10.0	<10.0	33.8	<10.0	<10.0
DRO	TPH 8015M		<10.0	26.8	53.6	7810	9050	15.8	84.8	813	47.2	24.3

Analyte	Method	Sample Date	SB1 @ 20'	SB1 @ 30'	SB1 @ 40'	SB1 @ 50'	SB2 @ 20'	SB2 @ 25'
			6/28/12	6/28/12	6/28/12	6/28/12	6/28/12	6/28/12
Chloride	SM4500Cl-B		mg/Kg 1640	mg/Kg 1280	mg/Kg 400	mg/Kg 32	mg/Kg 320	mg/Kg 80