



PHONE (575) 397-6388 • FAX (575) 397- 0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805
E-MAIL: cbrunson@bbcinternational.com

OXY – MARTHA CREEK GAS COM BATTERY

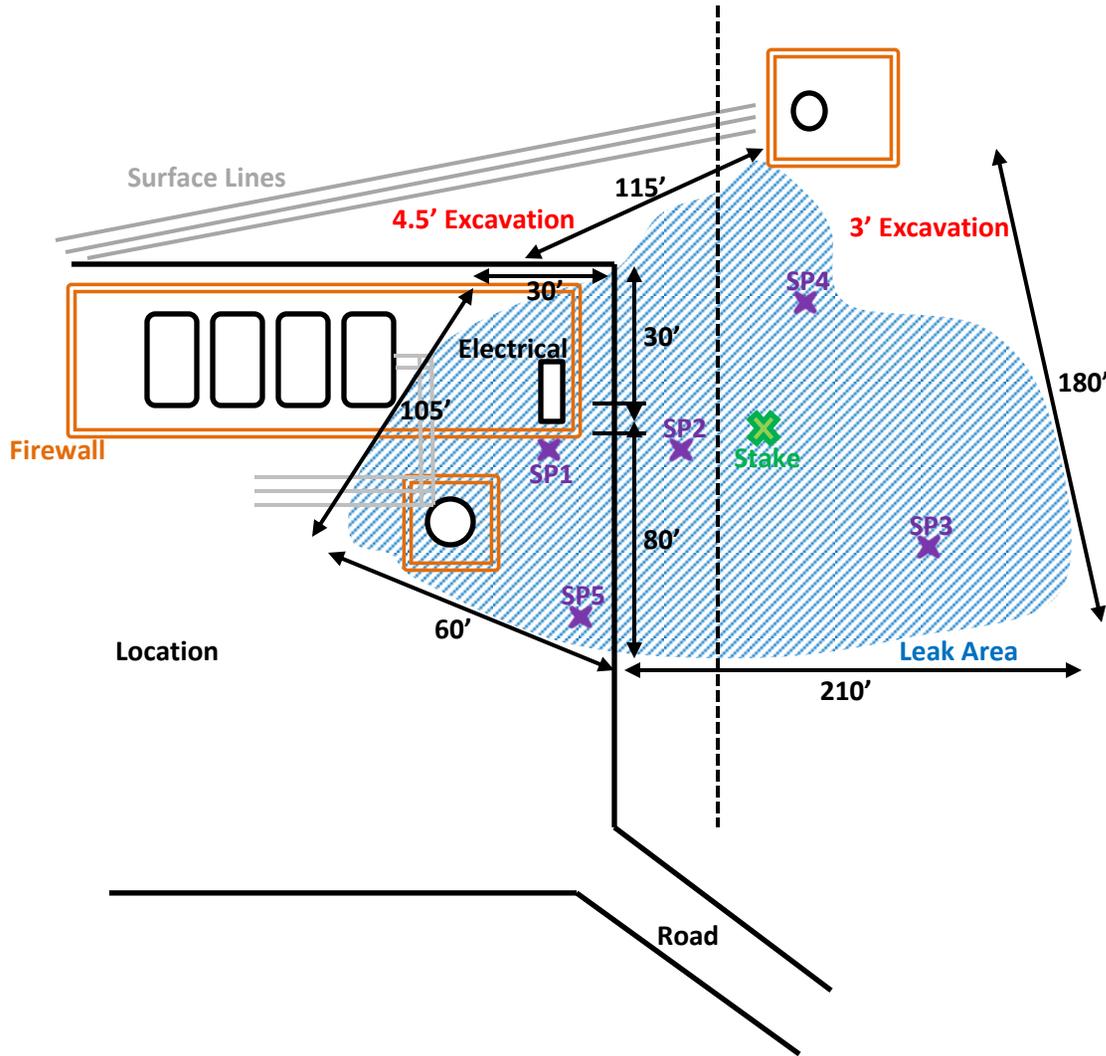
REMEDIATION PLAN

Oxy will excavate the spill area as depicted on the following site diagram. The spill area covering SP1, SP2, and SP5 will be excavated to a depth of 4.5 feet. The area covering SP3 and SP4 will be excavated to a depth of 3 feet. The site will then be backfilled with clean soil.

All excavated materials will be disposed of at an NMOCD-approved disposal facility.



Oxy
Martha Creek Gas Com Battery



SE ¼, Section 30, T21S, R24E
Eddy County, NM
N 32.44785° W 104.53339° stake
API# 30-015-10323

BBC International, Inc.

Oxy
Martha Creek Gas Com Battery

Date: 06/02/2015 | DRWG by: K. Purvis

NOT TO SCALE | File: Oxy 2015

Groundwater Plot

Oxy Martha Creek Gas Com Battery

County
Eddy

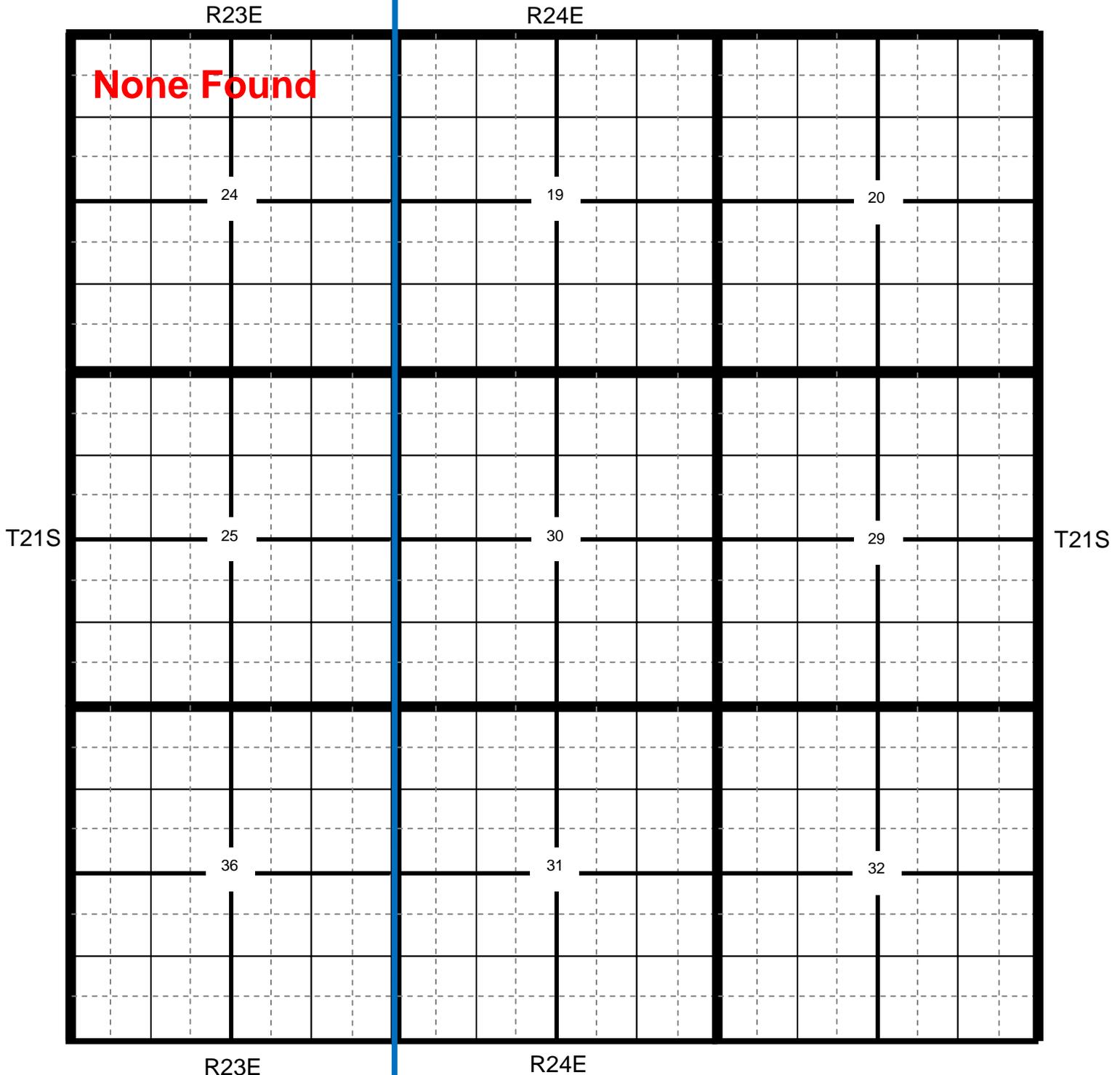
Unit Letter
SE ¼

Section
30

Township
21S

Range
24E

Trend Map 25'-50'



📍 Location

● OCD

● USGS

● SEO

● All Databases

Oxy Martha Creek Gas Com Battery

County Eddy	Unit Letter SE ¼	Section 30	Township 21S	Range 24E
-----------------------	----------------------------	----------------------	------------------------	---------------------

Trend Map 25'-50'

1

2

NW/NW None Found	NE/NW	NW/NE	NE/NE
Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SW/NW	SE/NW	SW/NE	SE/NE
Unit Letter E	Unit Letter F	Unit Letter G	Unit Letter H
NW/SW	NE/SW	NW/SE	NE/SE
Unit Letter L	Unit Letter K	Unit Letter J	Unit Letter I
SW/SW	SE/SW	SW/SE	SE/SE
Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P

3

4

Laboratory Analytical Results Summary
Martha Creek Gas Com Battery

Analyte	Method	Sample Date	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'	SP1 @ 5'	SP1 @ 6'
			7/7/15	7/7/15	7/7/15	9/1/15	9/1/15	9/1/15	9/1/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.200	<0.050	<0.050	<0.050	<0.100	<0.050	<0.050
Toluene	BTEX 8021B		<0.200	<0.050	<0.050	<0.050	0.27	0.075	<0.050
Ethylbenzene	BTEX 8021B		0.408	0.274	<0.050	0.235	0.598	0.658	<0.050
Total Xylenes	BTEX 8021B		1.39	0.518	<0.150	1.09	7.56	0.691	<0.150
Total BTEX	BTEX 8021B		1.79	0.791	<0.300	1.32	8.43	1.42	<0.300
Chloride	SM4500Cl-B		176	32	16	n/a	n/a	n/a	n/a
GRO	TPH 8015M		330	97.6	<10.0	102	205	50.1	<10.0
DRO	TPH 8015M		40800	8270	489	4620	1630	798	24.2

Analyte	Method	Sample Date	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'	SP5 @ 4'	SP5 @ 5'	SP5 @ 6'
			7/8/15	7/8/15	7/8/15	9/1/15	9/1/15	9/1/15	9/1/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.200	<0.200	<0.050	<0.100	<0.100	<0.050	<0.050
Toluene	BTEX 8021B		<0.200	<0.200	<0.050	<0.100	<0.100	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.252	1.05	0.071	0.439	0.111	0.435	<0.050
Total Xylenes	BTEX 8021B		6.4	4.04	<0.150	2.6	1.47	0.465	<0.150
Total BTEX	BTEX 8021B		6.65	5.09	<0.300	3.04	1.58	0.9	<0.300
Chloride	SM4500Cl-B		144	64	32	n/a	n/a	n/a	n/a
GRO	TPH 8015M		436	316	23.5	182	158	29.8	<10.0
DRO	TPH 8015M		41000	8480	1510	5420	1200	574	43.1

Analyte	Method	Sample Date	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'	SP2 @ 5'
			7/8/15	7/8/15	7/8/15	7/8/15	7/8/15	9/1/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.200	<0.050	<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.200	<0.050	<0.050	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		0.716	0.141	0.109	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		3.04	0.57	0.321	0.478	<0.150	n/a
Total BTEX	BTEX 8021B		3.75	0.711	0.43	0.478	<0.300	n/a
Chloride	SM4500Cl-B		816	528	640	640	480	176
GRO	TPH 8015M		303	91.4	41.5	58.5	<10.0	n/a
DRO	TPH 8015M		38500	8690	3450	3840	41.4	n/a

Analyte	Method	Sample Date	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'
			7/8/15	7/8/15	7/8/15	7/8/15	9/1/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.200	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.200	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.849	0.155	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		3.13	0.527	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		3.97	0.681	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		864	544	624	608	144
GRO	TPH 8015M		334	95.7	40.3	22.3	<10.0
DRO	TPH 8015M		39400	9220	3670	2160	37.7

Analyte	Method	Sample Date	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'
			7/8/15	7/8/15	7/8/15	9/1/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.200	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.200	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.571	0.073	0.069	<0.050
Total Xylenes	BTEX 8021B		2.1	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		2.67	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		816	576	768	128
GRO	TPH 8015M		372	118	46.3	<10.0
DRO	TPH 8015M		41900	10900	3470	30.4



July 24, 2015

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MARTHA CREEK GAS COM BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/17/15 11:20.

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

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/17/2015	Sampling Date:	07/07/2015
Reported:	07/24/2015	Sampling Type:	Soil
Project Name:	MARTHA CREEK GAS COM BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	EDDY COUNTY, NM		

Sample ID: SP1 @ SURFACE (H501847-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	07/21/2015	ND	1.91	95.6	2.00	2.71	
Toluene*	<0.200	0.200	07/21/2015	ND	1.90	94.9	2.00	2.58	
Ethylbenzene*	0.408	0.200	07/21/2015	ND	1.99	99.3	2.00	3.99	
Total Xylenes*	1.39	0.600	07/21/2015	ND	5.20	86.7	6.00	3.71	
Total BTEX	1.79	1.20	07/21/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 131 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/22/2015	ND	416	104	400	0.00	

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	330	100	07/21/2015	ND	179	89.6	200	4.76		
DRO >C10-C28	40800	100	07/21/2015	ND	182	90.9	200	10.5		

Surrogate: 1-Chlorooctane 122 % 47.2-157

Surrogate: 1-Chlorooctadecane 942 % 52.1-176

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:	07/17/2015	Sampling Date:	07/07/2015
Reported:	07/24/2015	Sampling Type:	Soil
Project Name:	MARTHA CREEK GAS COM BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	EDDY COUNTY, NM		

Sample ID: SP1 @ 1' (H501847-02)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2015	ND	1.91	95.6	2.00	2.71	
Toluene*	<0.050	0.050	07/21/2015	ND	1.90	94.9	2.00	2.58	
Ethylbenzene*	0.274	0.050	07/21/2015	ND	1.99	99.3	2.00	3.99	
Total Xylenes*	0.518	0.150	07/21/2015	ND	5.20	86.7	6.00	3.71	
Total BTEX	0.791	0.300	07/21/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 157 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/22/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	97.6	10.0	07/21/2015	ND	179	89.6	200	4.76	
DRO >C10-C28	8270	10.0	07/21/2015	ND	182	90.9	200	10.5	

Surrogate: 1-Chlorooctane 108 % 47.2-157

Surrogate: 1-Chlorooctadecane 163 % 52.1-176

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:	07/17/2015	Sampling Date:	07/07/2015
Reported:	07/24/2015	Sampling Type:	Soil
Project Name:	MARTHA CREEK GAS COM BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Judy Garcia
Project Location:	EDDY COUNTY, NM		

Sample ID: SP1 @ 2' (H501847-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2015	ND	1.91	95.6	2.00	2.71	
Toluene*	<0.050	0.050	07/21/2015	ND	1.90	94.9	2.00	2.58	
Ethylbenzene*	<0.050	0.050	07/21/2015	ND	1.99	99.3	2.00	3.99	
Total Xylenes*	<0.150	0.150	07/21/2015	ND	5.20	86.7	6.00	3.71	
Total BTEX	<0.300	0.300	07/21/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/22/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/21/2015	ND	179	89.6	200	4.76	
DRO >C10-C28	489	10.0	07/21/2015	ND	182	90.9	200	10.5	

Surrogate: 1-Chlorooctane 87.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 82.5 % 52.1-176

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.
- 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



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

108

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

Project Manager: Cliff Brunson

P.O. #: _____

Address: P.O. Box 805 State: NM Zip: 88241

City: Hobbs Attn: _____

Company: _____

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

Address: _____

Project #: _____ Project Owner: Oxy

City: _____

Project Name: Martha Creek Gas Com Battery

State: _____ Zip: _____

Project Location: Eddy County, NM

Phone #: _____

Sample Name: Roger Hernandez Fax #: _____

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV	SAMPLING	DATE	TIME	BTEX	CI	TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :							
1501847	SP1 @ SURFACE	G	1								7/7/15	12:20 PM	✓	✓	✓	
3.	SP1 @ 1'	G	1								7/7/15	12:40 PM	✓	✓	✓	
3.	SP1 @ 2'	G	1								7/7/15	1:20 PM	✓	✓	✓	

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 the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Roger Hernandez Date: 7/17/15 Received By: Judy Purcia Date: 7/17/15

Relinquished By: _____ Date: _____ Received By: _____ Date: _____

Delivered By: (Circle One) UPS Bus Other

Sample Condition: Cool Intact Yes No

CHECKED BY: _____ (Initials)

REMARKS: _____

Phone Result: Yes No Add'l Phone #: _____

Fax Result: Yes No Add'l Fax #: _____

#54



July 16, 2015

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MARTHA CREEK GAS COM

Enclosed are the results of analyses for samples received by the laboratory on 07/09/15 15:52.

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

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/09/2015	Sampling Date:	07/08/2015
Reported:	07/16/2015	Sampling Type:	Soil
Project Name:	MARTHA CREEK GAS COM	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN BASIN		

Sample ID: SP 2 @ SURFACE (H501765-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	07/15/2015	ND	1.94	97.2	2.00	2.59	
Toluene*	<0.200	0.200	07/15/2015	ND	2.10	105	2.00	2.17	
Ethylbenzene*	0.716	0.200	07/15/2015	ND	1.97	98.6	2.00	3.58	
Total Xylenes*	3.04	0.600	07/15/2015	ND	6.07	101	6.00	4.27	
Total BTEX	3.75	1.20	07/15/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	07/15/2015	ND	432	108	400	0.00	

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	303	50.0	07/14/2015	ND	197	98.3	200	3.85		
DRO >C10-C28	38500	50.0	07/14/2015	ND	178	88.8	200	17.1		

Surrogate: 1-Chlorooctane 133 % 47.2-157

Surrogate: 1-Chlorooctadecane 1490 % 52.1-176

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:	07/09/2015	Sampling Date:	07/08/2015
Reported:	07/16/2015	Sampling Type:	Soil
Project Name:	MARTHA CREEK GAS COM	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN BASIN		

Sample ID: SP 2 @ 1' (H501765-02)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2015	ND	1.94	97.2	2.00	2.59	
Toluene*	<0.050	0.050	07/15/2015	ND	2.10	105	2.00	2.17	
Ethylbenzene*	0.141	0.050	07/15/2015	ND	1.97	98.6	2.00	3.58	
Total Xylenes*	0.570	0.150	07/15/2015	ND	6.07	101	6.00	4.27	
Total BTEX	0.711	0.300	07/15/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 154 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	07/15/2015	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	91.4	10.0	07/14/2015	ND	197	98.3	200	3.85	
DRO >C10-C28	8690	10.0	07/14/2015	ND	178	88.8	200	17.1	

Surrogate: 1-Chlorooctane 114 % 47.2-157

Surrogate: 1-Chlorooctadecane 154 % 52.1-176

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Analytical Results For:

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

Received:	07/09/2015	Sampling Date:	07/08/2015
Reported:	07/16/2015	Sampling Type:	Soil
Project Name:	MARTHA CREEK GAS COM	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN BASIN		

Sample ID: SP 2 @ 2' (H501765-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2015	ND	1.94	97.2	2.00	2.59	
Toluene*	<0.050	0.050	07/15/2015	ND	2.10	105	2.00	2.17	
Ethylbenzene*	0.109	0.050	07/15/2015	ND	1.97	98.6	2.00	3.58	
Total Xylenes*	0.321	0.150	07/15/2015	ND	6.07	101	6.00	4.27	
Total BTEX	0.430	0.300	07/15/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	07/15/2015	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	41.5	10.0	07/14/2015	ND	197	98.3	200	3.85	
DRO >C10-C28	3450	10.0	07/14/2015	ND	178	88.8	200	17.1	

Surrogate: 1-Chlorooctane 97.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 97.2 % 52.1-176

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Received:	07/09/2015	Sampling Date:	07/08/2015
Reported:	07/16/2015	Sampling Type:	Soil
Project Name:	MARTHA CREEK GAS COM	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN BASIN		

Sample ID: SP 2 @ 3' (H501765-04)

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	07/15/2015	ND	1.94	97.2	2.00	2.59	
Toluene*	<0.050	0.050	07/15/2015	ND	2.10	105	2.00	2.17	
Ethylbenzene*	<0.050	0.050	07/15/2015	ND	1.97	98.6	2.00	3.58	
Total Xylenes*	0.478	0.150	07/15/2015	ND	6.07	101	6.00	4.27	
Total BTEX	0.478	0.300	07/15/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 132 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	07/15/2015	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	58.5	10.0	07/14/2015	ND	197	98.3	200	3.85	
DRO >C10-C28	3840	10.0	07/14/2015	ND	178	88.8	200	17.1	

Surrogate: 1-Chlorooctane 98.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 101 % 52.1-176

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Received:	07/09/2015	Sampling Date:	07/08/2015
Reported:	07/16/2015	Sampling Type:	Soil
Project Name:	MARTHA CREEK GAS COM	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN BASIN		

Sample ID: SP 2 @ 4' (H501765-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2015	ND	1.94	97.2	2.00	2.59	
Toluene*	<0.050	0.050	07/15/2015	ND	2.10	105	2.00	2.17	
Ethylbenzene*	<0.050	0.050	07/15/2015	ND	1.97	98.6	2.00	3.58	
Total Xylenes*	<0.150	0.150	07/15/2015	ND	6.07	101	6.00	4.27	
Total BTEX	<0.300	0.300	07/15/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.5 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	07/15/2015	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/14/2015	ND	197	98.3	200	3.85	
DRO >C10-C28	41.4	10.0	07/14/2015	ND	178	88.8	200	17.1	

Surrogate: 1-Chlorooctane 87.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 86.6 % 52.1-176

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Received:	07/09/2015	Sampling Date:	07/08/2015
Reported:	07/16/2015	Sampling Type:	Soil
Project Name:	MARTHA CREEK GAS COM	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN BASIN		

Sample ID: SP 3 @ SURFACE (H501765-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	07/15/2015	ND	1.94	97.2	2.00	2.59	
Toluene*	<0.200	0.200	07/15/2015	ND	2.10	105	2.00	2.17	
Ethylbenzene*	0.849	0.200	07/15/2015	ND	1.97	98.6	2.00	3.58	
Total Xylenes*	3.13	0.600	07/15/2015	ND	6.07	101	6.00	4.27	
Total BTEX	3.97	1.20	07/15/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	07/15/2015	ND	432	108	400	0.00	

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	334	50.0	07/14/2015	ND	197	98.3	200	3.85		
DRO >C10-C28	39400	50.0	07/14/2015	ND	178	88.8	200	17.1		

Surrogate: 1-Chlorooctane 138 % 47.2-157

Surrogate: 1-Chlorooctadecane 970 % 52.1-176

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Received:	07/09/2015	Sampling Date:	07/08/2015
Reported:	07/16/2015	Sampling Type:	Soil
Project Name:	MARTHA CREEK GAS COM	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN BASIN		

Sample ID: SP 3 @ 1' (H501765-07)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2015	ND	1.94	97.2	2.00	2.59	
Toluene*	<0.050	0.050	07/15/2015	ND	2.10	105	2.00	2.17	
Ethylbenzene*	0.155	0.050	07/15/2015	ND	1.97	98.6	2.00	3.58	
Total Xylenes*	0.527	0.150	07/15/2015	ND	6.07	101	6.00	4.27	
Total BTEX	0.681	0.300	07/15/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 157 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	07/15/2015	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	95.7	50.0	07/14/2015	ND	197	98.3	200	3.85	
DRO >C10-C28	9220	50.0	07/14/2015	ND	178	88.8	200	17.1	

Surrogate: 1-Chlorooctane 118 % 47.2-157

Surrogate: 1-Chlorooctadecane 165 % 52.1-176

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Received:	07/09/2015	Sampling Date:	07/08/2015
Reported:	07/16/2015	Sampling Type:	Soil
Project Name:	MARTHA CREEK GAS COM	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN BASIN		

Sample ID: SP 3 @ 2' (H501765-08)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2015	ND	2.27	114	2.00	0.428	
Toluene*	<0.050	0.050	07/15/2015	ND	1.99	99.4	2.00	0.233	
Ethylbenzene*	<0.050	0.050	07/15/2015	ND	1.92	95.8	2.00	0.257	
Total Xylenes*	<0.150	0.150	07/15/2015	ND	5.64	93.9	6.00	0.0288	
Total BTEX	<0.300	0.300	07/15/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	07/16/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	40.3	10.0	07/14/2015	ND	197	98.3	200	3.85	
DRO >C10-C28	3670	10.0	07/14/2015	ND	178	88.8	200	17.1	

Surrogate: 1-Chlorooctane 94.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 105 % 52.1-176

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Received:	07/09/2015	Sampling Date:	07/08/2015
Reported:	07/16/2015	Sampling Type:	Soil
Project Name:	MARTHA CREEK GAS COM	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN BASIN		

Sample ID: SP 3 @ 3' (H501765-09)

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	07/15/2015	ND	2.27	114	2.00	0.428	
Toluene*	<0.050	0.050	07/15/2015	ND	1.99	99.4	2.00	0.233	
Ethylbenzene*	<0.050	0.050	07/15/2015	ND	1.92	95.8	2.00	0.257	
Total Xylenes*	<0.150	0.150	07/15/2015	ND	5.64	93.9	6.00	0.0288	
Total BTEX	<0.300	0.300	07/15/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	07/16/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	22.3	10.0	07/14/2015	ND	197	98.3	200	3.85	
DRO >C10-C28	2160	10.0	07/14/2015	ND	178	88.8	200	17.1	

Surrogate: 1-Chlorooctane 84.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 84.6 % 52.1-176

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Received:	07/09/2015	Sampling Date:	07/08/2015
Reported:	07/16/2015	Sampling Type:	Soil
Project Name:	MARTHA CREEK GAS COM	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN BASIN		

Sample ID: SP 4 @ SURFACE (H501765-10)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	07/15/2015	ND	2.27	114	2.00	0.428	
Toluene*	<0.200	0.200	07/15/2015	ND	1.99	99.4	2.00	0.233	
Ethylbenzene*	0.571	0.200	07/15/2015	ND	1.92	95.8	2.00	0.257	
Total Xylenes*	2.10	0.600	07/15/2015	ND	5.64	93.9	6.00	0.0288	
Total BTEX	2.67	1.20	07/15/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 137 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	07/16/2015	ND	416	104	400	0.00	

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	372	50.0	07/14/2015	ND	197	98.3	200	3.85		
DRO >C10-C28	41900	50.0	07/14/2015	ND	178	88.8	200	17.1		

Surrogate: 1-Chlorooctane 139 % 47.2-157

Surrogate: 1-Chlorooctadecane 1060 % 52.1-176

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Received:	07/09/2015	Sampling Date:	07/08/2015
Reported:	07/16/2015	Sampling Type:	Soil
Project Name:	MARTHA CREEK GAS COM	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN BASIN		

Sample ID: SP 4 @ 1' (H501765-11)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2015	ND	2.27	114	2.00	0.428	
Toluene*	<0.050	0.050	07/15/2015	ND	1.99	99.4	2.00	0.233	
Ethylbenzene*	0.073	0.050	07/15/2015	ND	1.92	95.8	2.00	0.257	
Total Xylenes*	<0.150	0.150	07/15/2015	ND	5.64	93.9	6.00	0.0288	
Total BTEX	<0.300	0.300	07/15/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	07/16/2015	ND	416	104	400	0.00	

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	118	50.0	07/14/2015	ND	197	98.3	200	3.85		
DRO >C10-C28	10900	50.0	07/14/2015	ND	178	88.8	200	17.1		

Surrogate: 1-Chlorooctane 119 % 47.2-157

Surrogate: 1-Chlorooctadecane 192 % 52.1-176

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:	07/09/2015	Sampling Date:	07/08/2015
Reported:	07/16/2015	Sampling Type:	Soil
Project Name:	MARTHA CREEK GAS COM	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN BASIN		

Sample ID: SP 4 @ 2' (H501765-12)

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	07/15/2015	ND	2.27	114	2.00	0.428	
Toluene*	<0.050	0.050	07/15/2015	ND	1.99	99.4	2.00	0.233	
Ethylbenzene*	0.069	0.050	07/15/2015	ND	1.92	95.8	2.00	0.257	
Total Xylenes*	<0.150	0.150	07/15/2015	ND	5.64	93.9	6.00	0.0288	
Total BTEX	<0.300	0.300	07/15/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	07/16/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	46.3	10.0	07/14/2015	ND	197	98.3	200	3.85	
DRO >C10-C28	3470	10.0	07/14/2015	ND	178	88.8	200	17.1	

Surrogate: 1-Chlorooctane 92.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 102 % 52.1-176

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/09/2015	Sampling Date:	07/08/2015
Reported:	07/16/2015	Sampling Type:	Soil
Project Name:	MARTHA CREEK GAS COM	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN BASIN		

Sample ID: SP 5 @ SURFACE (H501765-13)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	07/15/2015	ND	2.27	114	2.00	0.428	
Toluene*	<0.200	0.200	07/15/2015	ND	1.99	99.4	2.00	0.233	
Ethylbenzene*	0.252	0.200	07/15/2015	ND	1.92	95.8	2.00	0.257	
Total Xylenes*	6.40	0.600	07/15/2015	ND	5.64	93.9	6.00	0.0288	
Total BTEX	6.65	1.20	07/15/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/16/2015	ND	416	104	400	0.00	

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	436	50.0	07/14/2015	ND	197	98.3	200	3.85		
DRO >C10-C28	41000	50.0	07/14/2015	ND	178	88.8	200	17.1		

Surrogate: 1-Chlorooctane 138 % 47.2-157

Surrogate: 1-Chlorooctadecane 1020 % 52.1-176

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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:	07/09/2015	Sampling Date:	07/08/2015
Reported:	07/16/2015	Sampling Type:	Soil
Project Name:	MARTHA CREEK GAS COM	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN BASIN		

Sample ID: SP 5 @ 1' (H501765-14)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	07/15/2015	ND	2.27	114	2.00	0.428	
Toluene*	<0.200	0.200	07/15/2015	ND	1.99	99.4	2.00	0.233	
Ethylbenzene*	1.05	0.200	07/15/2015	ND	1.92	95.8	2.00	0.257	
Total Xylenes*	4.04	0.600	07/15/2015	ND	5.64	93.9	6.00	0.0288	
Total BTEX	5.09	1.20	07/15/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 85.6-137

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	07/16/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	316	10.0	07/14/2015	ND	197	98.3	200	3.85	
DRO >C10-C28	8480	10.0	07/14/2015	ND	178	88.8	200	17.1	

Surrogate: 1-Chlorooctane 124 % 47.2-157

Surrogate: 1-Chlorooctadecane 149 % 52.1-176

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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:	07/09/2015	Sampling Date:	07/08/2015
Reported:	07/16/2015	Sampling Type:	Soil
Project Name:	MARTHA CREEK GAS COM	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	INDIAN BASIN		

Sample ID: SP 5 @ 2' (H501765-15)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2015	ND	2.27	114	2.00	0.428	
Toluene*	<0.050	0.050	07/15/2015	ND	1.99	99.4	2.00	0.233	
Ethylbenzene*	0.071	0.050	07/15/2015	ND	1.92	95.8	2.00	0.257	
Total Xylenes*	<0.150	0.150	07/15/2015	ND	5.64	93.9	6.00	0.0288	
Total BTEX	<0.300	0.300	07/15/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/16/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	23.5	10.0	07/14/2015	ND	197	98.3	200	3.85	
DRO >C10-C28	1510	10.0	07/14/2015	ND	178	88.8	200	17.1	

Surrogate: 1-Chlorooctane 84.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 81.2 % 52.1-176

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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.
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- 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





ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.
Project Manager: Cliff Brunson
Address: P. O. Box 805
City: Hobbs
Phone #: 575-397-6388
Project #:

State: NM Zip: 88241
Attn: *SAW*
Address: *SAW*
City: *SAW*
State: *SAW* Zip: *SAW*

P.O. #:
Company:
BILL TO
ANALYSIS REQUEST

Project Name: *Martha Creek Gas Coll*
Project Location: *Indiana Basin*
Sampler Name: *Roger Hernandez*
FOR LAB USE ONLY

Matrix: (G)RAB OR (C)OMP
CONTAINERS
GROUNDWATER
WASTEWATER
SOIL
OIL
SLUDGE
OTHER:
ACID/BASE:
ICE / COOL
OTHER:

Lab I.D.	Sample I.D.	MATRIX	PRESERV	SAMPLING	DATE	TIME	REMARKS
<i>H501765</i>	<i>SP2E Subst</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>7-8</i>	<i>1120</i>	<i>BTEX</i>
	<i>SP30 Subst</i>	<i>X</i>	<i>X</i>	<i>X</i>		<i>1152</i>	<i>TPH</i>
	<i>SP30 Subst</i>	<i>X</i>	<i>X</i>	<i>X</i>		<i>1248</i>	<i>CL</i>
	<i>SP40 Subst</i>	<i>X</i>	<i>X</i>	<i>X</i>		<i>120</i>	
	<i>SP40 Subst</i>	<i>X</i>	<i>X</i>	<i>X</i>		<i>130</i>	
	<i>SP40 Subst</i>	<i>X</i>	<i>X</i>	<i>X</i>		<i>140</i>	
	<i>SP40 Subst</i>	<i>X</i>	<i>X</i>	<i>X</i>		<i>148</i>	
	<i>SP40 Subst</i>	<i>X</i>	<i>X</i>	<i>X</i>		<i>155</i>	
	<i>SP40 Subst</i>	<i>X</i>	<i>X</i>	<i>X</i>		<i>208</i>	

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Relinquished By: *Roger Hernandez* Date: *7-9-15*
Received By: *Ruby H. Green* Date: *7-9-15*
Time: *8:00*
Sample Condition: Cool Intact
 Yes No

Delivered By: (Circle One)
Sampler - UPS - Bus - Other: *Bus*
Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Phone Result: Yes No
Fax Result: Yes No
Add'l Phone #:
Add'l Fax #:
REMARKS: *#54*



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2/8

Company Name: BBC International, Inc.
Project Manager: Cliff Brunson

P.O. #: **BILL TO**

ANALYSIS REQUEST

Address: P.O. Box 805
City: Hobbs
State: NM Zip: 88241
Phone #: 575-397-6388
Fax #: 575-397-0397

Company:
Attn:

Project #:
Project Owner: *OKY*

Address:

Project Name: *Martha Creek Gas Com*
Project Location: *Indian Basin*

City: *SMU*
State: zip:

Sampler Name: *EH*

Phone #: Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	ANALYSIS REQUEST					
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					ACID/BASE:	ICE / COOL	OTHER :	BTEX	TPH	Cl-
<i>H501765</i>																			
	<i>SP902</i>		<i>61</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>7:0</i>	<i>215</i>	<i>X</i>	<i>X</i>	<i>X</i>			
	<i>SP503414</i>		<i>61</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>220</i>	<i>230</i>	<i>X</i>	<i>X</i>	<i>X</i>			
	<i>2</i>		<i>61</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>240</i>	<i>248</i>	<i>X</i>	<i>X</i>	<i>X</i>			

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Relinquished By: *[Signature]* Date: *7-9-15*
Received By: *[Signature]* Date: *7-9-15*
Time: *8:00*

Relinquished By: *[Signature]* Date: *7-9-15*
Time: *8:00*
Delivered By: (Circle One) *[Signature]*
Sampler - UPS - Bus - Other: *[Signature]*

Sample Condition: Cool Ambient
 Yes No
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 11, 2015

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MARTHA CREEK #1

Enclosed are the results of analyses for samples received by the laboratory on 09/08/15 8:10.

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

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:	09/08/2015	Sampling Date:	09/01/2015
Reported:	09/11/2015	Sampling Type:	Soil
Project Name:	MARTHA CREEK #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 3' (H502356-01)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2015	ND	1.95	97.6	2.00	0.0323	
Toluene*	<0.050	0.050	09/09/2015	ND	1.82	91.0	2.00	0.435	
Ethylbenzene*	0.235	0.050	09/09/2015	ND	1.85	92.6	2.00	0.594	
Total Xylenes*	1.09	0.150	09/09/2015	ND	5.95	99.2	6.00	0.321	
Total BTEX	1.32	0.300	09/09/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 85.6-137

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	102	10.0	09/08/2015	ND	175	87.6	200	1.96	
DRO >C10-C28	4620	10.0	09/08/2015	ND	188	93.8	200	0.952	

Surrogate: 1-Chlorooctane 98.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 130 % 52.1-176

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:	09/08/2015	Sampling Date:	09/01/2015
Reported:	09/11/2015	Sampling Type:	Soil
Project Name:	MARTHA CREEK #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 4' (H502356-02)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	09/09/2015	ND	1.95	97.6	2.00	0.0323	
Toluene*	0.270	0.100	09/09/2015	ND	1.82	91.0	2.00	0.435	
Ethylbenzene*	0.598	0.100	09/09/2015	ND	1.85	92.6	2.00	0.594	
Total Xylenes*	7.56	0.300	09/09/2015	ND	5.95	99.2	6.00	0.321	
Total BTEX	8.43	0.600	09/09/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 85.6-137

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	205	10.0	09/08/2015	ND	175	87.6	200	1.96	
DRO >C10-C28	1630	10.0	09/08/2015	ND	188	93.8	200	0.952	

Surrogate: 1-Chlorooctane 98.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 103 % 52.1-176

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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:	09/08/2015	Sampling Date:	09/01/2015
Reported:	09/11/2015	Sampling Type:	Soil
Project Name:	MARTHA CREEK #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 5' (H502356-03)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2015	ND	1.95	97.6	2.00	0.0323	
Toluene*	0.075	0.050	09/09/2015	ND	1.82	91.0	2.00	0.435	
Ethylbenzene*	0.658	0.050	09/09/2015	ND	1.85	92.6	2.00	0.594	
Total Xylenes*	0.691	0.150	09/09/2015	ND	5.95	99.2	6.00	0.321	
Total BTEX	1.42	0.300	09/09/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 85.6-137

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	50.1	10.0	09/08/2015	ND	175	87.6	200	1.96	
DRO >C10-C28	798	10.0	09/08/2015	ND	188	93.8	200	0.952	

Surrogate: 1-Chlorooctane 84.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 90.9 % 52.1-176

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

Received:	09/08/2015	Sampling Date:	09/01/2015
Reported:	09/11/2015	Sampling Type:	Soil
Project Name:	MARTHA CREEK #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 1 @ 6' (H502356-04)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/09/2015	ND	1.95	97.6	2.00	0.0323		
Toluene*	<0.050	0.050	09/09/2015	ND	1.82	91.0	2.00	0.435		
Ethylbenzene*	<0.050	0.050	09/09/2015	ND	1.85	92.6	2.00	0.594		
Total Xylenes*	<0.150	0.150	09/09/2015	ND	5.95	99.2	6.00	0.321		
Total BTEX	<0.300	0.300	09/09/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 85.6-137

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/08/2015	ND	175	87.6	200	1.96		
DRO >C10-C28	24.2	10.0	09/08/2015	ND	188	93.8	200	0.952		

Surrogate: 1-Chlorooctane 69.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 81.1 % 52.1-176

Sample ID: SP 2 @ 5' (H502356-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	09/09/2015	ND	416	104	400	3.92		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/08/2015	Sampling Date:	09/01/2015
Reported:	09/11/2015	Sampling Type:	Soil
Project Name:	MARTHA CREEK #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 3 @ 4' (H502356-06)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2015	ND	1.95	97.6	2.00	0.0323	
Toluene*	<0.050	0.050	09/09/2015	ND	1.82	91.0	2.00	0.435	
Ethylbenzene*	<0.050	0.050	09/09/2015	ND	1.85	92.6	2.00	0.594	
Total Xylenes*	<0.150	0.150	09/09/2015	ND	5.95	99.2	6.00	0.321	
Total BTEX	<0.300	0.300	09/09/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/09/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/08/2015	ND	175	87.6	200	1.96	
DRO >C10-C28	37.7	10.0	09/08/2015	ND	188	93.8	200	0.952	

Surrogate: 1-Chlorooctane 68.6 % 47.2-157
Surrogate: 1-Chlorooctadecane 77.8 % 52.1-176

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Analytical Results For:

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

Received:	09/08/2015	Sampling Date:	09/01/2015
Reported:	09/11/2015	Sampling Type:	Soil
Project Name:	MARTHA CREEK #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 4 @ 3' (H502356-07)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2015	ND	1.95	97.6	2.00	0.0323	
Toluene*	<0.050	0.050	09/09/2015	ND	1.82	91.0	2.00	0.435	
Ethylbenzene*	<0.050	0.050	09/09/2015	ND	1.85	92.6	2.00	0.594	
Total Xylenes*	<0.150	0.150	09/09/2015	ND	5.95	99.2	6.00	0.321	
Total BTEX	<0.300	0.300	09/09/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/09/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/08/2015	ND	175	87.6	200	1.96	
DRO >C10-C28	30.4	10.0	09/08/2015	ND	188	93.8	200	0.952	

Surrogate: 1-Chlorooctane 70.7 % 47.2-157
Surrogate: 1-Chlorooctadecane 78.4 % 52.1-176

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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:	09/08/2015	Sampling Date:	09/01/2015
Reported:	09/11/2015	Sampling Type:	Soil
Project Name:	MARTHA CREEK #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ 3' (H502356-08)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	09/09/2015	ND	1.95	97.6	2.00	0.0323	
Toluene*	<0.100	0.100	09/09/2015	ND	1.82	91.0	2.00	0.435	
Ethylbenzene*	0.439	0.100	09/09/2015	ND	1.85	92.6	2.00	0.594	
Total Xylenes*	2.60	0.300	09/09/2015	ND	5.95	99.2	6.00	0.321	
Total BTEX	3.04	0.600	09/09/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 85.6-137

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	182	10.0	09/08/2015	ND	175	87.6	200	1.96	
DRO >C10-C28	5420	10.0	09/08/2015	ND	188	93.8	200	0.952	

Surrogate: 1-Chlorooctane 111 % 47.2-157

Surrogate: 1-Chlorooctadecane 144 % 52.1-176

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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:	09/08/2015	Sampling Date:	09/01/2015
Reported:	09/11/2015	Sampling Type:	Soil
Project Name:	MARTHA CREEK #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ 4' (H502356-09)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	09/09/2015	ND	1.95	97.6	2.00	0.0323	
Toluene*	<0.100	0.100	09/09/2015	ND	1.82	91.0	2.00	0.435	
Ethylbenzene*	0.111	0.100	09/09/2015	ND	1.85	92.6	2.00	0.594	
Total Xylenes*	1.47	0.300	09/09/2015	ND	5.95	99.2	6.00	0.321	
Total BTEX	1.58	0.600	09/09/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 85.6-137

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	158	10.0	09/08/2015	ND	175	87.6	200	1.96	
DRO >C10-C28	1200	10.0	09/08/2015	ND	188	93.8	200	0.952	

Surrogate: 1-Chlorooctane 92.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 92.0 % 52.1-176

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Analytical Results For:

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

Received:	09/08/2015	Sampling Date:	09/01/2015
Reported:	09/11/2015	Sampling Type:	Soil
Project Name:	MARTHA CREEK #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ 5' (H502356-10)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2015	ND	1.95	97.6	2.00	0.0323	
Toluene*	<0.050	0.050	09/09/2015	ND	1.82	91.0	2.00	0.435	
Ethylbenzene*	0.435	0.050	09/09/2015	ND	1.85	92.6	2.00	0.594	
Total Xylenes*	0.465	0.150	09/09/2015	ND	5.95	99.2	6.00	0.321	
Total BTEX	0.900	0.300	09/09/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 85.6-137

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	29.8	10.0	09/08/2015	ND	175	87.6	200	1.96	
DRO >C10-C28	574	10.0	09/08/2015	ND	188	93.8	200	0.952	

Surrogate: 1-Chlorooctane 85.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 104 % 52.1-176

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Analytical Results For:

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

Received:	09/08/2015	Sampling Date:	09/01/2015
Reported:	09/11/2015	Sampling Type:	Soil
Project Name:	MARTHA CREEK #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP 5 @ 6' (H502356-11)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/09/2015	ND	1.95	97.6	2.00	0.0323		
Toluene*	<0.050	0.050	09/09/2015	ND	1.82	91.0	2.00	0.435		
Ethylbenzene*	<0.050	0.050	09/09/2015	ND	1.85	92.6	2.00	0.594		
Total Xylenes*	<0.150	0.150	09/09/2015	ND	5.95	99.2	6.00	0.321		
Total BTEX	<0.300	0.300	09/09/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 85.6-137

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/08/2015	ND	175	87.6	200	1.96		
DRO >C10-C28	43.1	10.0	09/08/2015	ND	188	93.8	200	0.952		

Surrogate: 1-Chlorooctane 71.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 84.7 % 52.1-176

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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





CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

192

Company Name: BBC International, Inc.
Project Manager: Cliff Brunson

P.O. #:
Company:
Attn: **CS Summers**
Address:
City:
State:
Zip:
Phone #:
Fax #:

BILL TO ANALYSIS REQUEST

Address: P.O. Box 805
City: Hobbs
State: NM Zip: 88241
Phone #: 575-397-6388 Fax #: 575-397-0397

Project #:
Project Name: **MARQUA CREEK #1**
Project Location:
Project Owner: **CRV**

Sampler Name: **ROGER HERRERA**
FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.			DATE	TIME	TPH	BTEX	CHLORIDE
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:					
H508356	SP105	/	1										9-01-05	19	/	/	/
	SP205	/	1										9-01-05	1052	/	/	/
	SP305	/	1										9-01-05	1122	/	/	/
	SP405	/	1										9-01-05	1202	/	/	/
	SP505	/	1										9-01-05	109	/	/	/
	SP304	/	1										9-01-05	145	/	/	/
	SP403	/	1										9-01-05	211	/	/	/
	SP503	/	1										9-01-05	242	/	/	/
	SP603	/	1										9-01-05	315	/	/	/

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Relinquished By: **Roger Herrera** Date: **9-8-05** Received By: **Joel Henderson** Time: **8:10**

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

Delivered By: (Circle One) UPS Bus Other: **-6:22**
Sampler - UPS - Bus - Other: **-6:22**

Sample Condition: Intact Cool Yes No
CHECKED BY: **[Signature]** (Initials)

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

District I
1625 N. French Dr., Hobbs, NM 88240

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

District II
811 S. First St., Artesia, NM 88210

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

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

District III
1000 Rio Brazos Road, Aztec, NM 87410

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company	Oxy Permian Ltd.	Contact	Chancey Summers
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(432) 685-5824
Facility Name	Martha Creek Gas Com Battery	Facility Type	Gathering
Surface Owner	BLM	Mineral Owner	
		API No.	30-15-10323

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
SE ¼	30	21S	24E					Eddy County, NM

Latitude N 32.44785° Longitude W 104.53339°

NATURE OF RELEASE

Type of Release	Oil	Volume of Release	15 bbls	Volume Recovered	0 bbls
Source of Release	Blowout of a gasket on the manway of the heater treater	Date and Hour of Occurrence	05/26/2015	Date and Hour of Discovery	
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher, Heather Patterson- NMOCD; James Amos- BLM		
By Whom?	Kathy Purvis, BBC International	Date and Hour	05/29/2015 @ 10:46am		
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 blowout of the gasket on the manway of the heater treater caused 15 bbls of oil to leak onto ground. No fluids were recovered and the gasket was replaced.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 200' x 250' on location. 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: 	OIL CONSERVATION DIVISION	
Printed Name: Chancey Summers	Approved by Environmental Specialist:	
Title: HES Lead	Approval Date:	Expiration Date:
E-mail Address: <u>Chancey_Summers@oxy.com</u>	Conditions of Approval:	
Date: <u>6/4/15</u> Phone: (432) 685-5824	Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary