

Closure Report

ID# nMLB1209747032

Site Description

Site Name:	RIVERBEND B-11 BATTERY
Company:	Oxy USA, Inc.
Legal Description:	U/L E, S23,T24S, R29E
County:	EDDY
GPS Coordinates:	32.20367, -103.96233

Release Data

Date of Release:	1/1/2012
Type of Release:	OIL
Source of Release:	VICATULIC CLAMP FAILURE AT CIRCULATING PUMP
Volume of Release:	151 BBLS
Volume Recovered:	73 BBLS

Remediation Specifications

Remediation Parameters:	This site is listed on the Agreed Compliance Order of 4/5/19. This site had previously been remediated but apparently no paperwork exists on the NMOCD website for closure verification. Therefore, OXY is submitting documentation that verifies remediation was conducted and completed per OCD approval.	
Remediation Activities:		
Plan Sent to OCD:	6/13/2012	
OCD Approval of Plan:	6/15/2012	
Plan Sent to BLM:	6/15/2012	
BLM Approval of Plan:		

Supporting Documentation

C-141, page 6	signed and included	
Site Diagram	Google Earth map	
Pictures	Closure photos	
Lab Summary/Analysis	Confirmation lab summary/analysis report	
Notifications	8/8/2012	

Request for Closure

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

Cliff P. Brunson
President, BBC International, Inc.

10/12/2022

Form C-141

Page 6

State of New Mexico
Oil Conservation Division

Incident ID	nMLB1209747032
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Wade Dittrich Title: Environmental CoordinatorSignature:  Date: 10/11/22email: wade_dittrich@oxy.com Telephone: (575) 390-2828**OCD Only**Received by: OCD Date: 10/12/2022

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 2/21/2023Printed Name: Ashley Maxwell Title: Environmental Specialist

From: [Bratcher, Mike, EMNRD](#)
To: [Kathy Purvis](#); jamos@blm.gov
Cc: cbrunson@bbcinternational.com
Subject: RE: Final C-141s for Cypress 34 Fed 4H and Riverbend B-11 Btry
Date: Wednesday, August 8, 2012 12:17:15 PM

Received – Thanks,

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

From: Kathy Purvis [<mailto:kathy@bbcinternational.com>]
Sent: Wednesday, August 08, 2012 12:40 PM
To: Bratcher, Mike, EMNRD; jamos@blm.gov
Cc: cbrunson@bbcinternational.com
Subject: Final C-141s for Cypress 34 Fed 4H and Riverbend B-11 Btry

Attached are the Final C-141s for the Cypress 34 Fed 4H and Riverbend B-11 Btry. If you have questions, please feel free to contact me. Also, please respond upon receipt of this email. Thank you.

Kathy Purvis

BBC International, Inc.
1324 W. Marland
Hobbs, NM 88240
Phone: (575) 397-6388
Fax: (575) 397-0397
Email: kathy@bbcinternational.com

From: [Cliff P. Brunson](#)
To: [Mike Bratcher](#)
Subject: FW: Riverbend B Federal #11 Remediation Packet
Date: Wednesday, June 13, 2012 6:28:07 PM
Attachments: [Remediation Packet- Oxy, Riverbend B Fed #11.pdf](#)

Mike,

Here is a packet of information for an Oxy site that I would like to discuss with you on the phone and get a remediation plan put together and agreed upon. We took the samples before conducting any initial response actions so as you can see from the data, the surface samples are high. After sampling, we scraped about 6 inches off to get the worst part. You can see in the pictures of the initial spill pictures then the pictures after we did the initial response. With groundwater being at least 100', Oxy proposed to stop soil removal and backfill the site since the numbers are in the guidelines range. Let me know when we can discuss on the phone. I need to get this done ASAP per Jim Amos' request.

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
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E-Mail: cbrunson@bbcinternational.com

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Kathy Purvis

From: Amos, James A <jamos@blm.gov>
Sent: Wednesday, June 20, 2012 10:36 AM
To: Cliff P. Brunson
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: RE: Riverbend Federal B-11

Cliff,

I am good with this process, keep me in the loop as you move forward. thanks

-----Original Message-----

From: Cliff P. Brunson [<mailto:cbrunson@bbcinternational.com>]
Sent: Friday, June 15, 2012 6:44 PM
To: Amos, James A
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: Re: Riverbend Federal B-11

Jim,

This message is in response to your message below. I am writing you to submit a remediation plan for this site. I have attached the site diagram and a summary table of the sampling results of the site delineation. The surface samples were taken before the initial response activities to remove the saturated materials was conducted. I have discussed this site with Mike Bratcher of the NMOCD earlier this week and he has given his approval for the following:

Oxy will excavate an additional 2-4 inches of the material inside the bermed battery area. Then the site will be backfilled. Although the hydrocarbon numbers are below the NMOCD guidelines of 5,000 ppm, Oxy has agreed to excavate additional soil to remove some more of the hydrocarbons. The depth to water in this area is at least 100 feet.

Oxy will also address your other concerns: 1.) A diversion will be installed on the south side of the facility to divert run-off. 2.) All trash, debris, pit plastic, and scrap concrete will be removed as well.

CJ Summers of Oxy will get with you upon his return from vacation after June 25th to discuss the old pit to the north with you as a separate issue from the oil release that we are handling.

Therefore, Oxy is requesting an approval from the BLM to conduct the above described remediation plan. Upon approval, we will schedule this site to be taken care as soon as possible. If you would please respond back via e-mail with your approval or any questions, it would be greatly appreciated.

Thank you,

Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists

From: [Kathy Purvis](#)
To: mike.bratcher@state.nm.us; jamos@blm.gov
Cc: cbrunson@bbcinternational.com
Subject: Final C-141s for Cypress 34 Fed 4H and Riverbend B-11 Btry
Date: Wednesday, August 8, 2012 11:41:15 AM
Attachments: [MX-C311_20120808_132010.pdf](#)

Attached are the Final C-141s for the Cypress 34 Fed 4H and Riverbend B-11 Btry. If you have questions, please feel free to contact me. Also, please respond upon receipt of this email. Thank you.

Kathy Purvis

BBC International, Inc.

1324 W. Marland

Hobbs, NM 88240

Phone: (575) 397-6388

Fax: (575) 397-0397

Email: kathy@bbcinternational.com

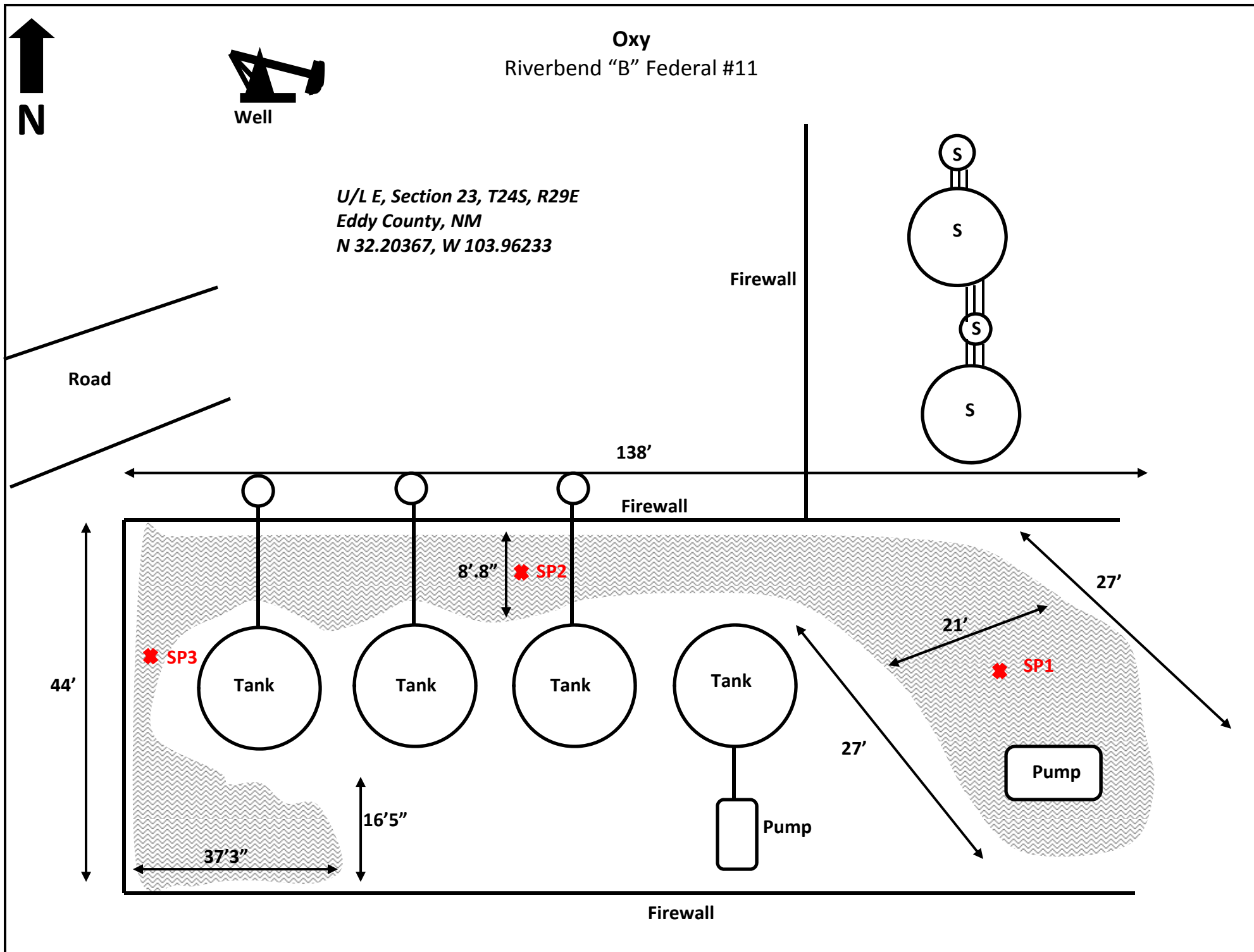
OXY, RIVERBEND B FEDERAL 11 BATTERY

LEAK DATE: 1/1/12
INCIDENT #: nMLB1209747032
EDDY COUNTY, NM



Google Earth

100 ft



Laboratory Analytical Results Summary
OXY, Riverbend B #11 Battery

		Sample	SP1 @ SURFACE	SP2 @ SURFACE	SP3 @ SURFACE
Analyte	Method	Date	1/16/12	1/16/12	1/16/12
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		15.1	17.4	6.11
Toluene	BTEX 8021B		104	108	67.4
Ethylbenzene	BTEX 8021B		44.8	47.2	23.5
Total Xylenes	BTEX 8021B		169	182	91.3
Chloride	SM4500Cl-B		N/A	N/A	N/A
GRO	TPH 8015M		14600	14300	14700
DRO	TPH 8015M		22000	21700	20800

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 5'	SP1 @ 6'	SP1 @ 8'
Analyte	Method	Date	5/7/12	5/7/12	5/7/12	5/7/12	5/7/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.178	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.489	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		1.79	<0.150	<0.150	<0.150	<0.150
GRO	TPH 8015M		86.7	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		1570	138	165	164	37.5

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 5'	SP2 @ 6'	SP2 @ 8'
Analyte	Method	Date	5/7/12	5/7/12	5/7/12	5/7/12	5/7/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.154	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.462	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.869	<0.150	<0.150	<0.150	<0.150
GRO	TPH 8015M		140	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		4110	77.8	20.5	25.6	14.7

		Sample	SP3 @ 1'	SP3 @ 3'	SP3 @ 5'	SP3 @ 6'	SP3 @ 8'
Analyte	Method	Date	5/7/12	5/8/12	5/9/12	5/9/12	5/9/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	0.173	<0.150	<0.150	<0.150
GRO	TPH 8015M		<10.0	18.1	<10.0	<10.0	<10.0
DRO	TPH 8015M		82.9	289	13	16.8	<10.0



OXY- RIVERBEND B FEDERAL # 11





OXY- RIVERBEND B FEDERAL # 11





OXY- RIVERBEND B FEDERAL # 11





OXY- RIVERBEND B FEDERAL # 11





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

May 16, 2012

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: RIVERBEND B 11 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/10/12 12:00.

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.

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 "Coley D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received: 05/10/2012
 Reported: 05/16/2012
 Project Name: RIVERBEND B 11 BATTERY
 Project Number: NONE GIVEN
 Project Location: MALAGA, NM

Sampling Date: 05/07/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1' (H201057-01)

BTX 8021B		mg/kg	Analyzed By: ZZZ					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2012	ND	2.23	111	2.00	4.99	
Toluene*	0.178	0.050	05/15/2012	ND	2.30	115	2.00	4.92	
Ethylbenzene*	0.489	0.050	05/15/2012	ND	2.29	114	2.00	4.09	
Total Xylenes*	1.79	0.150	05/15/2012	ND	7.00	117	6.00	4.22	

Surrogate: 4-Bromofluorobenzene (PID) 144 % 64.4-134

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	86.7	10.0	05/11/2012	ND	204	102	200	6.66	
DRO >C10-C28	1570	10.0	05/11/2012	ND	201	100	200	4.23	

Surrogate: 1-Chlorooctane 103 % 55.5-154

Surrogate: 1-Chlorooctadecane 195 % 57.6-158

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received: 05/10/2012
 Reported: 05/16/2012
 Project Name: RIVERBEND B 11 BATTERY
 Project Number: NONE GIVEN
 Project Location: MALAGA, NM

Sampling Date: 05/07/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 3' (H201057-02)

BTX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2012	ND	2.23	111	2.00	4.99	
Toluene*	<0.050	0.050	05/15/2012	ND	2.30	115	2.00	4.92	
Ethylbenzene*	<0.050	0.050	05/15/2012	ND	2.29	114	2.00	4.09	
Total Xylenes*	<0.150	0.150	05/15/2012	ND	7.00	117	6.00	4.22	

Surrogate: 4-Bromofluorobenzene (PID) 112 % 64.4-134

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	05/11/2012	ND	204	102	200	6.66	
DRO >C10-C28	138	10.0	05/11/2012	ND	201	100	200	4.23	

Surrogate: 1-Chlorooctane 87.8 % 55.5-154

Surrogate: 1-Chlorooctadecane 127 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received: 05/10/2012
 Reported: 05/16/2012
 Project Name: RIVERBEND B 11 BATTERY
 Project Number: NONE GIVEN
 Project Location: MALAGA, NM

Sampling Date: 05/07/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 5' (H201057-03)

BTX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2012	ND	2.23	111	2.00	4.99	
Toluene*	<0.050	0.050	05/15/2012	ND	2.30	115	2.00	4.92	
Ethylbenzene*	<0.050	0.050	05/15/2012	ND	2.29	114	2.00	4.09	
Total Xylenes*	<0.150	0.150	05/15/2012	ND	7.00	117	6.00	4.22	

Surrogate: 4-Bromofluorobenzene (PID) 111 % 64.4-134

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	05/11/2012	ND	204	102	200	6.66	
DRO >C10-C28	165	10.0	05/11/2012	ND	201	100	200	4.23	

Surrogate: 1-Chlorooctane 88.6 % 55.5-154

Surrogate: 1-Chlorooctadecane 126 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received: 05/10/2012
 Reported: 05/16/2012
 Project Name: RIVERBEND B 11 BATTERY
 Project Number: NONE GIVEN
 Project Location: MALAGA, NM

Sampling Date: 05/07/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 6' (H201057-04)

BTX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2012	ND	2.23	111	2.00	4.99	
Toluene*	<0.050	0.050	05/15/2012	ND	2.30	115	2.00	4.92	
Ethylbenzene*	<0.050	0.050	05/15/2012	ND	2.29	114	2.00	4.09	
Total Xylenes*	<0.150	0.150	05/15/2012	ND	7.00	117	6.00	4.22	

Surrogate: 4-Bromofluorobenzene (PID) 108 % 64.4-134

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	05/11/2012	ND	204	102	200	6.66	
DRO >C10-C28	164	10.0	05/11/2012	ND	201	100	200	4.23	

Surrogate: 1-Chlorooctane 90.6 % 55.5-154

Surrogate: 1-Chlorooctadecane 126 % 57.6-158

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received: 05/10/2012
 Reported: 05/16/2012
 Project Name: RIVERBEND B 11 BATTERY
 Project Number: NONE GIVEN
 Project Location: MALAGA, NM

Sampling Date: 05/07/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 8' (H201057-05)

BTX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2012	ND	2.23	111	2.00	4.99	
Toluene*	<0.050	0.050	05/15/2012	ND	2.30	115	2.00	4.92	
Ethylbenzene*	<0.050	0.050	05/15/2012	ND	2.29	114	2.00	4.09	
Total Xylenes*	<0.150	0.150	05/15/2012	ND	7.00	117	6.00	4.22	

Surrogate: 4-Bromofluorobenzene (PID) 108 % 64.4-134

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	05/11/2012	ND	204	102	200	6.66	
DRO >C10-C28	37.5	10.0	05/11/2012	ND	201	100	200	4.23	

Surrogate: 1-Chlorooctane 90.1 % 55.5-154

Surrogate: 1-Chlorooctadecane 105 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received:	05/10/2012	Sampling Date:	05/07/2012
Reported:	05/16/2012	Sampling Type:	Soil
Project Name:	RIVERBEND B 11 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NM		

Sample ID: SP 2 @ 1' (H201057-06)

BTX 8021B		mg/kg		Analyzed By: ZZZ				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2012	ND	2.23	111	2.00	4.99	
Toluene*	0.154	0.050	05/15/2012	ND	2.30	115	2.00	4.92	
Ethylbenzene*	0.462	0.050	05/15/2012	ND	2.29	114	2.00	4.09	
Total Xylenes*	0.869	0.150	05/15/2012	ND	7.00	117	6.00	4.22	

Surrogate: 4-Bromofluorobenzene (PID) 160 % 64.4-134

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	140	10.0	05/11/2012	ND	204	102	200	6.66	
DRO >C10-C28	4110	10.0	05/11/2012	ND	201	100	200	4.23	

Surrogate: 1-Chlorooctane 151 % 55.5-154

Surrogate: 1-Chlorooctadecane 704 % 57.6-158

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received: 05/10/2012
 Reported: 05/16/2012
 Project Name: RIVERBEND B 11 BATTERY
 Project Number: NONE GIVEN
 Project Location: MALAGA, NM

Sampling Date: 05/07/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 3' (H201057-07)

BTX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2012	ND	2.23	111	2.00	4.99	
Toluene*	<0.050	0.050	05/15/2012	ND	2.30	115	2.00	4.92	
Ethylbenzene*	<0.050	0.050	05/15/2012	ND	2.29	114	2.00	4.09	
Total Xylenes*	<0.150	0.150	05/15/2012	ND	7.00	117	6.00	4.22	

Surrogate: 4-Bromofluorobenzene (PID) 113 % 64.4-134

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	05/11/2012	ND	204	102	200	6.66	
DRO >C10-C28	77.8	10.0	05/11/2012	ND	201	100	200	4.23	

Surrogate: 1-Chlorooctane 84.6 % 55.5-154

Surrogate: 1-Chlorooctadecane 107 % 57.6-158

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Analytical Results For:

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 P.O. Box 805
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 Fax To: (505) 397-0397

Received: 05/10/2012
 Reported: 05/16/2012
 Project Name: RIVERBEND B 11 BATTERY
 Project Number: NONE GIVEN
 Project Location: MALAGA, NM

Sampling Date: 05/07/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 5' (H201057-08)

BTX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2012	ND	2.23	111	2.00	4.99	
Toluene*	<0.050	0.050	05/15/2012	ND	2.30	115	2.00	4.92	
Ethylbenzene*	<0.050	0.050	05/15/2012	ND	2.29	114	2.00	4.09	
Total Xylenes*	<0.150	0.150	05/15/2012	ND	7.00	117	6.00	4.22	

Surrogate: 4-Bromofluorobenzene (PID) 111 % 64.4-134

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	05/11/2012	ND	204	102	200	6.66	
DRO >C10-C28	20.5	10.0	05/11/2012	ND	201	100	200	4.23	

Surrogate: 1-Chlorooctane 88.6 % 55.5-154

Surrogate: 1-Chlorooctadecane 106 % 57.6-158

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 Fax To: (505) 397-0397

Received: 05/10/2012
 Reported: 05/16/2012
 Project Name: RIVERBEND B 11 BATTERY
 Project Number: NONE GIVEN
 Project Location: MALAGA, NM

Sampling Date: 05/07/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 6' (H201057-09)

BTX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2012	ND	2.23	111	2.00	4.99	
Toluene*	<0.050	0.050	05/15/2012	ND	2.30	115	2.00	4.92	
Ethylbenzene*	<0.050	0.050	05/15/2012	ND	2.29	114	2.00	4.09	
Total Xylenes*	<0.150	0.150	05/15/2012	ND	7.00	117	6.00	4.22	

Surrogate: 4-Bromofluorobenzene (PID) 113 % 64.4-134

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	05/11/2012	ND	204	102	200	6.66	
DRO >C10-C28	25.6	10.0	05/11/2012	ND	201	100	200	4.23	

Surrogate: 1-Chlorooctane 91.4 % 55.5-154

Surrogate: 1-Chlorooctadecane 112 % 57.6-158

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Received: 05/10/2012
 Reported: 05/16/2012
 Project Name: RIVERBEND B 11 BATTERY
 Project Number: NONE GIVEN
 Project Location: MALAGA, NM

Sampling Date: 05/07/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 8' (H201057-10)

BTX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2012	ND	2.23	111	2.00	4.99	
Toluene*	<0.050	0.050	05/15/2012	ND	2.30	115	2.00	4.92	
Ethylbenzene*	<0.050	0.050	05/15/2012	ND	2.29	114	2.00	4.09	
Total Xylenes*	<0.150	0.150	05/15/2012	ND	7.00	117	6.00	4.22	

Surrogate: 4-Bromofluorobenzene (PID) 111 % 64.4-134

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	05/11/2012	ND	204	102	200	6.66	
DRO >C10-C28	14.7	10.0	05/11/2012	ND	201	100	200	4.23	

Surrogate: 1-Chlorooctane 88.2 % 55.5-154

Surrogate: 1-Chlorooctadecane 106 % 57.6-158

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BBC International, Inc.
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 Fax To: (505) 397-0397

Received: 05/10/2012
 Reported: 05/16/2012
 Project Name: RIVERBEND B 11 BATTERY
 Project Number: NONE GIVEN
 Project Location: MALAGA, NM

Sampling Date: 05/07/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ 1' (H201057-11)

BTX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2012	ND	2.23	111	2.00	4.99	
Toluene*	<0.050	0.050	05/15/2012	ND	2.30	115	2.00	4.92	
Ethylbenzene*	<0.050	0.050	05/15/2012	ND	2.29	114	2.00	4.09	
Total Xylenes*	<0.150	0.150	05/15/2012	ND	7.00	117	6.00	4.22	

Surrogate: 4-Bromofluorobenzene (PID) 111 % 64.4-134

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	05/11/2012	ND	204	102	200	6.66	
DRO >C10-C28	82.9	10.0	05/11/2012	ND	201	100	200	4.23	

Surrogate: 1-Chlorooctane 88.4 % 55.5-154

Surrogate: 1-Chlorooctadecane 116 % 57.6-158

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received: 05/10/2012
 Reported: 05/16/2012
 Project Name: RIVERBEND B 11 BATTERY
 Project Number: NONE GIVEN
 Project Location: MALAGA, NM

Sampling Date: 05/08/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ 3' (H201057-12)

BTEx 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2012	ND	2.23	111	2.00	4.99	
Toluene*	<0.050	0.050	05/15/2012	ND	2.30	115	2.00	4.92	
Ethylbenzene*	<0.050	0.050	05/15/2012	ND	2.29	114	2.00	4.09	
Total Xylenes*	0.173	0.150	05/15/2012	ND	7.00	117	6.00	4.22	

Surrogate: 4-Bromofluorobenzene (PID) 122 % 64.4-134

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	18.1	10.0	05/11/2012	ND	204	102	200	6.66	
DRO >C10-C28	289	10.0	05/11/2012	ND	201	100	200	4.23	

Surrogate: 1-Chlorooctane 95.4 % 55.5-154

Surrogate: 1-Chlorooctadecane 146 % 57.6-158

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 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (505) 397-0397

Received: 05/10/2012
 Reported: 05/16/2012
 Project Name: RIVERBEND B 11 BATTERY
 Project Number: NONE GIVEN
 Project Location: MALAGA, NM

Sampling Date: 05/09/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ 5' (H201057-13)

BTX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2012	ND	2.23	111	2.00	4.99	
Toluene*	<0.050	0.050	05/15/2012	ND	2.30	115	2.00	4.92	
Ethylbenzene*	<0.050	0.050	05/15/2012	ND	2.29	114	2.00	4.09	
Total Xylenes*	<0.150	0.150	05/15/2012	ND	7.00	117	6.00	4.22	

Surrogate: 4-Bromofluorobenzene (PID) 112 % 64.4-134

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	05/11/2012	ND	204	102	200	6.66	
DRO >C10-C28	13.0	10.0	05/11/2012	ND	201	100	200	4.23	

Surrogate: 1-Chlorooctane 85.1 % 55.5-154

Surrogate: 1-Chlorooctadecane 102 % 57.6-158

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
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 Fax To: (505) 397-0397

Received: 05/10/2012
 Reported: 05/16/2012
 Project Name: RIVERBEND B 11 BATTERY
 Project Number: NONE GIVEN
 Project Location: MALAGA, NM

Sampling Date: 05/09/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ 6' (H201057-14)

BTX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2012	ND	2.23	111	2.00	4.99	
Toluene*	<0.050	0.050	05/15/2012	ND	2.30	115	2.00	4.92	
Ethylbenzene*	<0.050	0.050	05/15/2012	ND	2.29	114	2.00	4.09	
Total Xylenes*	<0.150	0.150	05/15/2012	ND	7.00	117	6.00	4.22	

Surrogate: 4-Bromofluorobenzene (PID) 111 % 64.4-134

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	05/11/2012	ND	204	102	200	6.66	
DRO >C10-C28	16.8	10.0	05/11/2012	ND	201	100	200	4.23	

Surrogate: 1-Chlorooctane 86.3 % 55.5-154

Surrogate: 1-Chlorooctadecane 103 % 57.6-158

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Received: 05/10/2012
 Reported: 05/16/2012
 Project Name: RIVERBEND B 11 BATTERY
 Project Number: NONE GIVEN
 Project Location: MALAGA, NM

Sampling Date: 05/09/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ 8' (H201057-15)

BTEx 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/15/2012	ND	2.23	111	2.00	4.99	
Toluene*	<0.050	0.050	05/15/2012	ND	2.30	115	2.00	4.92	
Ethylbenzene*	<0.050	0.050	05/15/2012	ND	2.29	114	2.00	4.09	
Total Xylenes*	<0.150	0.150	05/15/2012	ND	7.00	117	6.00	4.22	

Surrogate: 4-Bromofluorobenzene (PID) 110 % 64.4-134

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	05/11/2012	ND	204	102	200	6.66	
DRO >C10-C28	<10.0	10.0	05/11/2012	ND	201	100	200	4.23	

Surrogate: 1-Chlorooctane 95.6 % 55.5-154

Surrogate: 1-Chlorooctadecane 112 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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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A handwritten signature in black ink, reading "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: BBC International, Inc.				BILL TO		ANALYSIS REQUEST											
Project Manager: Cliff Brunson				P.O. #:													
Address: P.O. Box 805				Company:													
City: Hobbs State: NM Zip: 88241				Attn:													
Phone #: 575-397-6388 Fax #: 575-397-0397				Address: <i>Same</i>													
Project #: Project Owner: <i>OXY</i>				City:													
Project Name: <i>River bend B-11 Battery</i>				State: Zip:													
Project Location: <i>Malaga, NM</i>				Phone #:													
Sampler Name: <i>Jeff Drueles</i>				Fax #:													
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (C)COMP. # CONTAINERS	MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	PRESERV. ACID/BASE: ICE / COOL OTHER:	SAMPLING DATE TIME											
	<i>H20105</i>																
	1	<i>SP101</i>	<i>G</i>	<i>X</i>	<i>X</i>	<i>5-7</i>	<i>926</i>	<i>X</i>	<i>X</i>								
	2	<i>SP103</i>	<i>G</i>	<i>X</i>	<i>X</i>	<i>5-7</i>	<i>1011</i>	<i>X</i>	<i>X</i>								
	3	<i>SP105</i>	<i>G</i>	<i>X</i>	<i>X</i>	<i>5-7</i>	<i>1056</i>	<i>X</i>	<i>X</i>								
	4	<i>SP106</i>	<i>G</i>	<i>X</i>	<i>X</i>	<i>5-7</i>	<i>1120</i>	<i>X</i>	<i>X</i>								
	5	<i>SP108</i>	<i>G</i>	<i>X</i>	<i>X</i>	<i>5-7</i>	<i>1202</i>	<i>X</i>	<i>X</i>								
	6	<i>SP201</i>	<i>G</i>	<i>X</i>	<i>X</i>	<i>5-7</i>	<i>120</i>	<i>X</i>	<i>X</i>								
	7	<i>SP203</i>	<i>G</i>	<i>X</i>	<i>X</i>	<i>5-7</i>	<i>157</i>	<i>X</i>	<i>X</i>								
	8	<i>SP205</i>	<i>G</i>	<i>X</i>	<i>X</i>	<i>5-7</i>	<i>230</i>	<i>X</i>	<i>X</i>								
	9	<i>SP206</i>	<i>G</i>	<i>X</i>	<i>X</i>	<i>5-7</i>	<i>245</i>	<i>X</i>	<i>X</i>								
	10	<i>SP208</i>	<i>G</i>	<i>X</i>	<i>X</i>	<i>5-7</i>	<i>313</i>	<i>X</i>	<i>X</i>								

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Relinquished By: <i>Jeff Drueles</i>	Date: <i>5-10-12</i>	Received By: <i>Jodi Benson</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:
Relinquished By:	Date:	Received By:	
Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	<i>4/1</i>	

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CARDINAL 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.				BILL TO		ANALYSIS REQUEST											
Project Manager: Cliff Brunson				P.O. #:		<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> </div>											
Address: P.O. Box 805				Company:													
City: Hobbs		State: NM Zip: 88241		Attn:													
Phone #: 575-397-6388		Fax #: 575-397-0397		Address: <i>Same</i>													
Project #:		Project Owner: <i>DOY</i>		City:													
Project Name: <i>Riverhead B-11 Battery</i>				State: Zip:													
Project Location: <i>Malaga way</i>				Phone #:													
Sampler Name: <i>Jeff Daniels</i>				Fax #:													

FOR LAB USE ONLY		Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.			SAMPLING		DATE	TIME	TPH	BTEX
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:					
		<i>AZD1057</i>																	
		<i>11</i>	<i>SP30 1'</i>	<i>G</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>5-7-12</i>	<i>242</i>	<i>X</i>	<i>X</i>	
		<i>12</i>	<i>SP30 3'</i>	<i>G</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>5-8</i>	<i>1015</i>	<i>X</i>	<i>X</i>	
		<i>13</i>	<i>SP30 5'</i>	<i>G</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>5-9</i>	<i>1149</i>	<i>X</i>	<i>X</i>	
		<i>14</i>	<i>SP30 6'</i>	<i>G</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>5-9</i>	<i>1312</i>	<i>X</i>	<i>X</i>	
		<i>15</i>	<i>SP30 8'</i>	<i>G</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>5-9</i>	<i>105</i>	<i>X</i>	<i>X</i>	

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Relinquished By: <i>[Signature]</i>		Date: <i>5-10-12</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: <i>12:00</i>				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date:	Received By:	REMARKS:	
Time:					
Delivered By: (Circle One)			Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other: <i>20</i>			Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>[Initials]</i>	

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District IV
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Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 150529

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 150529
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	2/22/2023