

## Bratcher, Mike, EMNRD

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**From:** Cliff P. Brunson [cbrunson@bbcinternational.com]  
**Sent:** Wednesday, July 13, 2011 6:24 PM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** Kelton Beaird; Rick Kerby; Ken Swinney; Jennifer Gilkey  
**Subject:** Oxy-128 Production Facility  
**Attachments:** Oxy-128 Production Facility-field notes and lab data.pdf

Mike,

This message is to confirm our discussion yesterday on July 12, 2011 concerning the remediation plan for the above referenced site. Per our discussion and mutual agreement, Oxy will excavate and remove impacted soil on the location to a depth of one foot and off the location to a depth of one foot or as practicable. In the area of SP-13 at the end of the spill by the culvert, the depth of excavation will be at least one foot. Since there were no hydrocarbon samples taken below the surface, confirmation samples will be taken at the bottom of the one foot excavation across the site to determine that the appropriate hydrocarbons have been removed. The sample results will be discussed with the OCD prior to backfilling the site.

I have attached the site diagram and lab data for your files. If you would please respond back with your concurrence, it would be greatly appreciated. Thanks again for your time involving this matter.

Thanks, Cliff

Cliff Brunson, CEI, CRS  
President  
BBC International, Inc.  
World-Wide Environmental Specialists  
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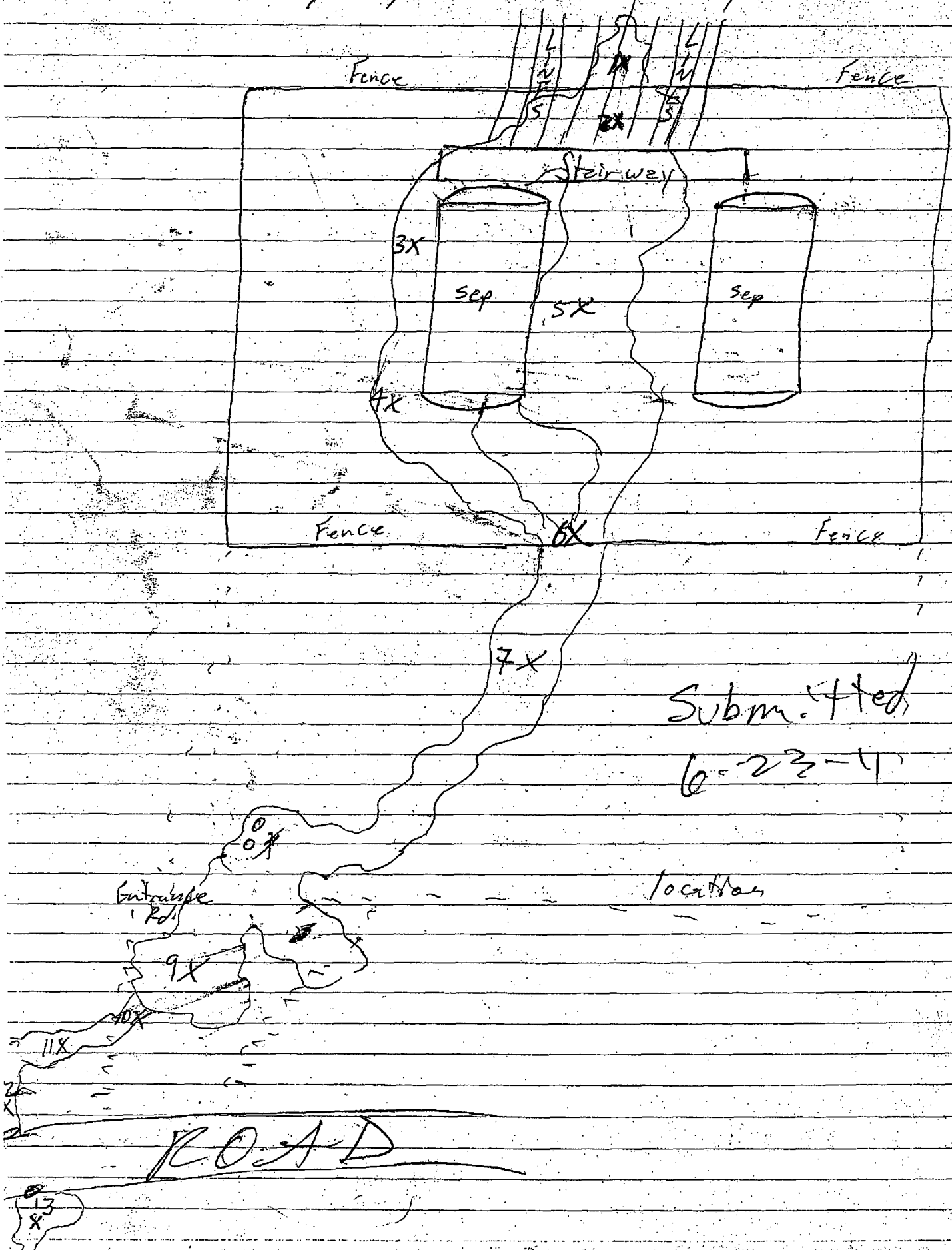
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6-15-11

Oxy. mc / 126 Production Facility



# oxy MC / 128 Production Facility 6/15/11

ID	Depth	Date	CL-	Time	odor	Soil
sp1 @ Surface		6-15-11	640	1028	NO	caliche/sand
1ft			200	1046	NO	caliche/rock
2ft	Refusal					
sp2 @ Surface		6-15-11	375	1111	NO	caliche/sand
1ft			200	1130	NO	caliche/rock
2ft	Refusal					
sp3 @ Surface		6-15-11	640	1158	NO	caliche/sand
1ft			280	101	NO	caliche/rock
2ft	Refusal					
sp4 @ Surface		6-15-11	200	130	slight/no	caliche/sand
1ft			75	155	NO	caliche/rock
2ft	Refusal					
sp5 @ Surface		6-15-11	320	209	slight/no	caliche
1ft			75	231	NO	caliche/rock
2ft	Refusal					
sp6 @ Surface		6-15-11	200	255	NO	caliche
1ft			75	329	NO	caliche/rock
sp7 @ Surface		6-15-11	700	400	slight/no	caliche
1ft	6-16-11		100	855	NO	caliche/rock
2ft			100	920	NO	caliche/rock
sp8 @ Surface		6-16-11	200	939	NO	caliche
1ft			180	1001	NO	caliche/rock
sp9 @ Surface		6-16-11	715	1029	slight/no	caliche
1ft			100	1049	NO	caliche
2ft			100	1111	NO	caliche
sp10 @ Surface		6-16-11	100	1125	NO	Sand/rock
sp11 @ Surface		6-16-11	100	100	NO	Sand/rock

6-16-11

## Oxy MC / 128 Production Facility

ID	Depth	Date	CL	Time	Order	Soil
Sp12 @ Surface	1ft	6-16-11	100	130	Slight/no	Sand/Rock
	1ft		100	149	no	cl.iche
Sp13 @ Surface	1ft	6-16-11	100	210	Slight	Sand/Rock
	1ft		100	233	no	cl.iche/sw
	2ft		100	245	no	cl.iche

GP @ 3100

Sp1 @ N. 32. 45351  
W. 104. 50520

Sp8 @ N. 32. 45400  
W. 104. 50493

Sp2 @ N. 32. 45353  
W. 104. 50521

Sp9 @ N. 32. 45407  
W. 104. 50473

Sp3 @ N. 32. 45350  
W. 104. 50510

Sp10 @ N. 32. 45405  
W. 104. 50446

Sp4 @ N. 32. 45369  
W. 104. 50507

Sp11 @ N. 32. 45409  
W. 104. 50429

Sp5 @ N. 32. 45363  
W. 104. 50510

Sp12 @ N. 32. 45416  
W. 104. 50387

Sp6 @ N. 32. 45375  
W. 104. 50517

Sp13 @ N. 32. 45432  
W. 104. 50307

Sp7 @ N. 32. 45387  
W. 104. 50503



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

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June 28, 2011

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: 128 PRODUCTION FACILITY

Enclosed are the results of analyses for samples received by the laboratory on 06/23/11 13:45.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (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, appearing to read "Celey D. Keene". The signature is fluid and cursive, with a large, stylized "C" at the beginning.

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 06/23/2011  
 Reported: 06/28/2011  
 Project Name: 128 PRODUCTION FACILITY  
 Project Number: NONE GIVEN  
 Project Location: CARLSBAD, NM

 Sampling Date: 06/15/2011  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ SURFACE (H101301-01)**

BTX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/27/2011	ND	1.81	90.6	2.00	11.4	
Toluene*	0.054	0.050	06/27/2011	ND	1.90	95.2	2.00	11.6	
Ethylbenzene*	0.125	0.050	06/27/2011	ND	1.88	94.1	2.00	13.0	
Total Xylenes*	0.768	0.150	06/27/2011	ND	5.61	93.5	6.00	12.1	

Surrogate: 4-Bromofluorobenzene (PII) 105 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	06/24/2011	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	81.9	50.0	06/25/2011	ND	184	91.8	200	2.31	
DRO >C10-C28	17500	50.0	06/25/2011	ND	183	91.6	200	3.55	

Surrogate: 1-Chlorooctane 123 % 70-130

Surrogate: 1-Chlorooctadecane 115 % 70-130

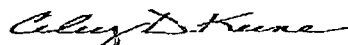
**Sample ID: SP 1 @ 1' (H101301-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	06/24/2011	ND	432	108	400	3.77	

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 06/23/2011  
Reported: 06/28/2011  
Project Name: 128 PRODUCTION FACILITY  
Project Number: NONE GIVEN  
Project Location: CARLSBAD, NM

Sampling Date: 06/15/2011  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ SURFACE (H101301-03)**

BTX 8021B			mg/kg							Analyzed By: CMS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.050	0.050	06/25/2011	ND	1.81	90.6	2.00	11.4			
Toluene*	<0.050	0.050	06/25/2011	ND	1.90	95.2	2.00	11.6			
Ethylbenzene*	0.064	0.050	06/25/2011	ND	1.88	94.1	2.00	13.0			
Total Xylenes*	0.400	0.150	06/25/2011	ND	5.61	93.5	6.00	12.1			

Surrogate: 4-Bromofluorobenzene (PIL) 100 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	06/24/2011	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/25/2011	ND	184	91.8	200	2.31	
DRO >C10-C28	9780	50.0	06/25/2011	ND	183	91.6	200	3.55	

Surrogate: 1-Chlorooctane 122 % 70-130

Surrogate: 1-Chlorooctadecane 120 % 70-130

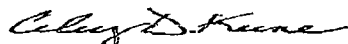
**Sample ID: SP 2 @ 1' (H101301-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/24/2011	ND	432	108	400	3.77	

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 06/23/2011  
Reported: 06/28/2011  
Project Name: 128 PRODUCTION FACILITY  
Project Number: NONE GIVEN  
Project Location: CARLSBAD, NM

Sampling Date: 06/15/2011  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ SURFACE (H101301-05)**

BTX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/25/2011	ND	1.81	90.6	2.00	11.4	
Toluene*	<0.050	0.050	06/25/2011	ND	1.90	95.2	2.00	11.6	
Ethylbenzene*	<0.050	0.050	06/25/2011	ND	1.88	94.1	2.00	13.0	
Total Xylenes*	<0.150	0.150	06/25/2011	ND	5.61	93.5	6.00	12.1	

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	06/24/2011	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	13.7	10.0	06/25/2011	ND	184	91.8	200	2.31	
DRO >C10-C28	365	10.0	06/25/2011	ND	183	91.6	200	3.55	

Surrogate: 1-Chlorooctane 114 % 70-130

Surrogate: 1-Chlorooctadecane 109 % 70-130

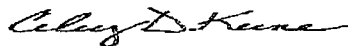
**Sample ID: SP 3 @ 1' (H101301-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	06/24/2011	ND	432	108	400	3.77	

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Caley D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received: 06/23/2011  
Reported: 06/28/2011  
Project Name: 128 PRODUCTION FACILITY  
Project Number: NONE GIVEN  
Project Location: CARLSBAD, NM

Sampling Date: 06/15/2011  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ SURFACE (H101301-07)**

BTX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/27/2011	ND	1.81	90.6	2.00	11.4	
Toluene*	<0.050	0.050	06/27/2011	ND	1.90	95.2	2.00	11.6	
Ethylbenzene*	<b>0.081</b>	0.050	06/27/2011	ND	1.88	94.1	2.00	13.0	
Total Xylenes*	<b>0.479</b>	0.150	06/27/2011	ND	5.61	93.5	6.00	12.1	

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>288</b>	16.0	06/24/2011	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<b>89.1</b>	50.0	06/25/2011	ND	184	91.8	200	2.31	
DRO >C10-C28	<b>16800</b>	50.0	06/25/2011	ND	183	91.6	200	3.55	

Surrogate: 1-Chlorooctane 124 % 70-130

Surrogate: 1-Chlorooctadecane 115 % 70-130

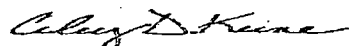
**Sample ID: SP 4 @ 1' (H101301-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>64.0</b>	16.0	06/24/2011	ND	432	108	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 06/23/2011  
Reported: 06/28/2011  
Project Name: 128 PRODUCTION FACILITY  
Project Number: NONE GIVEN  
Project Location: CARLSBAD, NM

Sampling Date: 06/15/2011  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 5 @ SURFACE (H101301-09)**

BTX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/27/2011	ND	1.81	90.6	2.00	11.4	
Toluene*	0.084	0.050	06/27/2011	ND	1.90	95.2	2.00	11.6	
Ethylbenzene*	0.107	0.050	06/27/2011	ND	1.88	94.1	2.00	13.0	
Total Xylenes*	0.741	0.150	06/27/2011	ND	5.61	93.5	6.00	12.1	

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	06/24/2011	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	06/27/2011	ND	184	91.8	200	2.31	
DRO >C10-C28	30800	100	06/27/2011	ND	183	91.6	200	3.55	

Surrogate: 1-Chlorooctane 999 % 70-130

Surrogate: 1-Chlorooctadecane 907 % 70-130

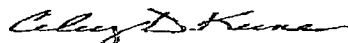
**Sample ID: SP 5 @ 1' (H101301-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/24/2011	ND	432	108	400	3.77	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 06/23/2011  
Reported: 06/28/2011  
Project Name: 128 PRODUCTION FACILITY  
Project Number: NONE GIVEN  
Project Location: CARLSBAD, NM

Sampling Date: 06/15/2011  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 6 @ SURFACE (H101301-11)**

BTX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/25/2011	ND	1.81	90.6	2.00	11.4	
Toluene*	<0.050	0.050	06/25/2011	ND	1.90	95.2	2.00	11.6	
Ethylbenzene*	0.075	0.050	06/25/2011	ND	1.88	94.1	2.00	13.0	
Total Xylenes*	0.417	0.150	06/25/2011	ND	5.61	93.5	6.00	12.1	

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	06/24/2011	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	16.8	10.0	06/25/2011	ND	184	91.8	200	2.31	
DRO >C10-C28	121	10.0	06/25/2011	ND	183	91.6	200	3.55	

Surrogate: 1-Chlorooctane 97.3 % 70-130

Surrogate: 1-Chlorooctadecane 84.8 % 70-130

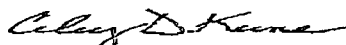
**Sample ID: SP 6 @ 1' (H101301-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/24/2011	ND	432	108	400	3.77	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	06/23/2011	Sampling Date:	06/15/2011
Reported:	06/28/2011	Sampling Type:	Soil
Project Name:	128 PRODUCTION FACILITY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 7 @ SURFACE (H101301-13)**

BTEX 80218		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/27/2011	ND	1.81	90.6	2.00	11.4	
Toluene*	<0.050	0.050	06/27/2011	ND	1.90	95.2	2.00	11.6	
Ethylbenzene*	<0.050	0.050	06/27/2011	ND	1.88	94.1	2.00	13.0	
Total Xylenes*	0.334	0.150	06/27/2011	ND	5.61	93.5	6.00	12.1	

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	06/24/2011	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	80.0	50.0	06/25/2011	ND	184	91.8	200	2.31	
DRO >C10-C28	16600	50.0	06/25/2011	ND	183	91.6	200	3.55	

Surrogate: 1-Chlorooctane 115 % 70-130

Surrogate: 1-Chlorooctadecane 85.5 % 70-130

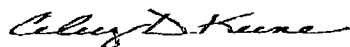
**Sample ID: SP 7 @ 1' (H101301-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/24/2011	ND	432	108	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 06/23/2011  
Reported: 06/28/2011  
Project Name: 128 PRODUCTION FACILITY  
Project Number: NONE GIVEN  
Project Location: CARLSBAD, NM

Sampling Date: 06/16/2011  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 8 @ SURFACE (H101301-15)**

BTX 8021B			mg/kg							Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.001	0.001	06/27/2011	ND	1.81	90.6	2.00	11.4			
Toluene*	0.046	0.001	06/27/2011	ND	1.90	95.2	2.00	11.6			
Ethylbenzene*	0.074	0.001	06/27/2011	ND	1.88	94.1	2.00	13.0			
Total Xylenes*	0.446	0.003	06/27/2011	ND	5.61	93.5	6.00	12.1			

Surrogate: 4-Bromofluorobenzene (PII) 101 % 70-130

Chloride, SM4500Cl-B			mg/kg							Analyzed By: HM	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	336	16.0	06/24/2011	ND	432	108	400	3.77			

TPH 8015M			mg/kg							Analyzed By: ab	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<10.0	10.0	06/25/2011	ND	208	104	200	2.59			
DRO >C10-C28	802	10.0	06/25/2011	ND	220	110	200	0.144			

Surrogate: 1-Chlorooctane 113 % 70-130

Surrogate: 1-Chlorooctadecane 102 % 70-130

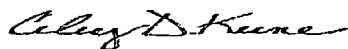
**Sample ID: SP 8 @ 1' (H101301-16)**

Chloride, SM4500Cl-B			mg/kg							Analyzed By: HM	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	208	16.0	06/24/2011	ND	432	108	400	3.77			

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 06/23/2011  
Reported: 06/28/2011  
Project Name: 128 PRODUCTION FACILITY  
Project Number: NONE GIVEN  
Project Location: CARLSBAD, NM

Sampling Date: 06/16/2011  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 9 @ SURFACE (H101301-17)**

BTEX 8021B			mg/kg							Analyzed By: CMS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.050	0.050	06/27/2011	ND	1.74	87.2	2.00	2.05			
Toluene*	<0.050	0.050	06/27/2011	ND	1.82	91.0	2.00	1.97			
Ethylbenzene*	0.107	0.050	06/27/2011	ND	1.80	90.2	2.00	2.42			
Total Xylenes*	0.628	0.150	06/27/2011	ND	5.45	90.8	6.00	2.85			

Surrogate: 4-Bromofluorobenzene (PIL) 95.5 % 70-130

Chloride, SM4500Cl-B			mg/kg							Analyzed By: HM	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	1040	16.0	06/24/2011	ND	432	108	400	3.77			

TPH 8015M			mg/kg							Analyzed By: ab	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<50.0	50.0	06/25/2011	ND	208	104	200	2.59			
DRO >C10-C28	10200	50.0	06/25/2011	ND	220	110	200	0.144			

Surrogate: 1-Chlorooctane 97.8 % 70-130

Surrogate: 1-Chlorooctadecane 97.3 % 70-130

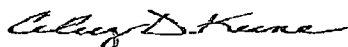
**Sample ID: SP 9 @ 1' (H101301-18)**

Chloride, SM4500Cl-B			mg/kg							Analyzed By: HM	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	112	16.0	06/24/2011	ND	432	108	400	3.77			

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	06/23/2011	Sampling Date:	06/16/2011
Reported:	06/28/2011	Sampling Type:	Soil
Project Name:	128 PRODUCTION FACILITY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NM		

**Sample ID: SP 10 @ SURFACE (H101301-19)**

BTX 8021B			mg/kg							Analyzed By: CMS
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2011	ND	1.74	87.2	2.00	2.05		
Toluene*	<0.050	0.050	06/27/2011	ND	1.82	91.0	2.00	1.97		
Ethylbenzene*	0.077	0.050	06/27/2011	ND	1.80	90.2	2.00	2.42		
Total Xylenes*	0.513	0.150	06/27/2011	ND	5.45	90.8	6.00	2.85		

Surrogate: 4-Bromofluorobenzene (PIL) 95.1 % 70-130

Chloride, SM4500Cl-B			mg/kg							Analyzed By: HM
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/24/2011	ND	432	108	400	3.77		

TPH 8015M			mg/kg							Analyzed By: ab
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	06/25/2011	ND	208	104	200	2.59		
DRO >C10-C28	12000	50.0	06/25/2011	ND	220	110	200	0.144		

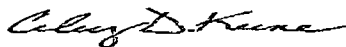
Surrogate: 1-Chlorooctane 112 % 70-130

Surrogate: 1-Chlorooctadecane 101 % 70-130

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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: (505) 397-0397

Received: 06/23/2011  
Reported: 06/28/2011  
Project Name: 128 PRODUCTION FACILITY  
Project Number: NONE GIVEN  
Project Location: CARLSBAD, NM

Sampling Date: 06/16/2011  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 11 @ SURFACE (H101301-20)**

BTEX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/27/2011	ND	1.74	87.2	2.00	2.05	
Toluene*	<0.050	0.050	06/27/2011	ND	1.82	91.0	2.00	1.97	
Ethylbenzene*	<0.050	0.050	06/27/2011	ND	1.80	90.2	2.00	2.42	
<b>Total Xylenes*</b>	<b>0.236</b>	<b>0.150</b>	<b>06/27/2011</b>	<b>ND</b>	<b>5.45</b>	<b>90.8</b>	<b>6.00</b>	<b>2.85</b>	

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>128</b>	<b>16.0</b>	<b>06/24/2011</b>	<b>ND</b>	<b>432</b>	<b>108</b>	<b>400</b>	<b>3.77</b>	

TPH 8015M		mg/kg		Analyzed By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/27/2011	ND	208	104	200	2.59	
<b>DRO &gt;C10-C28</b>	<b>59.8</b>	<b>10.0</b>	<b>06/27/2011</b>	<b>ND</b>	<b>220</b>	<b>110</b>	<b>200</b>	<b>0.144</b>	

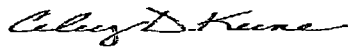
Surrogate: 1-Chlorooctane 97.5 % 70-130

Surrogate: 1-Chlorooctadecane 107 % 70-130

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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: (505) 397-0397

Received: 06/23/2011  
Reported: 06/28/2011  
Project Name: 128 PRODUCTION FACILITY  
Project Number: NONE GIVEN  
Project Location: CARLSBAD, NM

Sampling Date: 06/16/2011  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 12 @ SURFACE (H101301-21)**

BTX 8021B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/27/2011	ND	1.74	87.2	2.00	2.05	
Toluene*	<0.050	0.050	06/27/2011	ND	1.82	91.0	2.00	1.97	
Ethylbenzene*	0.073	0.050	06/27/2011	ND	1.80	90.2	2.00	2.42	
Total Xylenes*	0.546	0.150	06/27/2011	ND	5.45	90.8	6.00	2.85	

Surrogate: 4-Bromofluorobenzene (PIL) 95.5 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/24/2011	ND	432	108	400	3.77	

TPH 8015M			mg/kg		Analyzed By: ab				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	06/27/2011	ND	208	104	200	2.59		
DRO >C10-C28	27100	100	06/27/2011	ND	220	110	200	0.144		

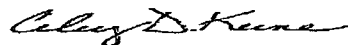
Surrogate: 1-Chlorooctane 935 % 70-130

Surrogate: 1-Chlorooctadecane 890 % 70-130

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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: (505) 397-0397

 Received: 06/23/2011  
 Reported: 06/28/2011  
 Project Name: 128 PRODUCTION FACILITY  
 Project Number: NONE GIVEN  
 Project Location: CARLSBAD, NM

 Sampling Date: 06/16/2011  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 13 @ SURFACE (H101301-22)**

BTX 8021B			mg/kg		Analyzed By: CMS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/27/2011	ND	1.74	87.2	2.00	2.05	
Toluene*	0.063	0.050	06/27/2011	ND	1.82	91.0	2.00	1.97	
Ethylbenzene*	0.147	0.050	06/27/2011	ND	1.80	90.2	2.00	2.42	
Total Xylenes*	0.793	0.150	06/27/2011	ND	5.45	90.8	6.00	2.85	

Surrogate: 4-Bromofluorobenzene (PIL) 94.2 % 70-130

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/24/2011	ND	432	108	400	3.77	

TPH 8015M			mg/kg		Analyzed By: ab			S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	06/27/2011	ND	208	104	200	2.59	
DRO >C10-C28	54300	100	06/27/2011	ND	220	110	200	0.144	

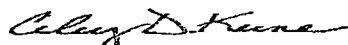
Surrogate: 1-Chlorooctane 1050 % 70-130

Surrogate: 1-Chlorooctadecane 901 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

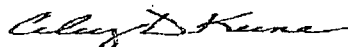
**Notes and Definitions**

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

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Celey D. Keene, Lab Director/Quality Manager

**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

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

Company Name: BBC International, Inc.										<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>											
Project Manager: Cliff Brunson										P.O. #:		<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CL</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>Square</i>															
Project #:				Project Owner: <i>QV Midcon</i>						City:													
Project Name: <i>128 Production Facility</i>										State:												Zip:	
Project Location: <i>Carrishad, NM</i>										Phone #:													
Sampler Name: <i>1000 Pines 25</i>										Fax #:													

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.			SAMPLING		DATE	TIME	TPH	BTEX	CL
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:						
H101301																		
1	SP1 @ Surface	G	1			X				X				6:15	1028	X	X	X
2	SP1 @ 1'	G	1			X				X					1046			X
3	SP2 @ Surface	G	1			X				X					1111	X	X	X
4	SP2 @ 1'	G	1			X				X					1130			X
5	SP2 @ Surface	G	1			X				X					1158	X	X	X
6	SP3 @ 1'	G	1			X				X					1201			X
7	SP4 @ Surface	G	1			X				X					130	X	X	X
8	SP4 @ 1'	G	1			X				X					155			X
9	SP5 @ Surface	G	1			X				X					209	X	X	X
10	SP5 @ 1'	G	1			X				X					221			X

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Relinquished By: <i>[Signature]</i>		Date: <i>6-23-11</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: <i>13:45</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:	
Sampler - UPS - Bus - Other: <i>-20</i>			Cool / Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<i>[Signature]</i>	

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



# **CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

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

2/3

Company Name: BBC International, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Project Manager: Cliff Brunson				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>TPH</div> <div>BTEX</div> <div>CL-</div> </div>											
Address: P.O. Box 805				Company:															
City: Hobbs		State: NM		Zip: 88241		Attn:													
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:		City:													
Project #:		Project Owner: Oxy MC		State:		Zip:													
Project Name: 128 Production Facility				Phone #:															
Project Location: Carlisle, NM				Fax #:															
Sampler Name: West Creek																			
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	GRAB OR (COMP. # CONTAINERS)	MATRIX	PRESERV.	SAMPLING														
			GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE: CE/COL OTHER:	DATE TIME														
H101301																			
11	Sp6@ Surface	G	X	X	6-15-11 255	X	X	X											
12	Sp6@ 1	G	X	X	6-15-11 329			X											
13	Sp7@ Surface	G	X	X	6-15-11 900	X	X	X											
14	Sp7@ 1	G	X	X	6-16-11 855			X											
15	Sp8@ Surface	G	X	X	939	X	X	X											
16	Sp8@ 1	G	X	X	1001			X											
17	Sp9@ Surface	G	X	X	1029	X	X	X											
18	Sp9@ 1	G	X	X	1049			X											
19	Sp10@ Surface	G	X	X	1125	X	X	X											
20	Sp11@ Surface	G	X	X	100	X	X	X											

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Relinquished By: <i>Jeff Owens</i>	Date: 6-13-11	Received By: <i>Cliff Brunson</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 1:34 PM		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
REMARKS:				

Relinquished By:	Date:	Received By:
Time:		

Delivered By: (Circle One)	Sample Condition	CHECKED BY:
Sampler - UPS - Bus - Other:	Cool Intact Yes <input type="checkbox"/> No <input type="checkbox"/>	<i>gjh</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**

3/3

Company Name: BBC International, Inc.				<b>BILL TO</b>												<b>ANALYSIS REQUEST</b>																			
Project Manager: Cliff Brunson				P.O. #:																															
Address: P.O. Box 805				Company:																															
City: Hobbs State: NM Zip: 88241				Attn:																															
Phone #: 575-397-6388 Fax #: 575-397-0397				Address: <i>Santa Fe</i>																															
Project #: Project Owner: <i>DRY MC</i>				City:																															
Project Name: <i>170 Production Facility</i>				State: Zip:																															
Project Location: <i>Coronado</i>				Phone #:																															
Sampler Name: <i>Cliff Brunson</i>				Fax #:																															
FOR LAB USE ONLY																																			
Lab I.D.		Sample I.D.		GC/RAB OR C/COMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE		ICE / COOL		OTHER:		DATE		TIME		TPH		BTEX		CL-	
H101301		21 Sp 12 @ Surface		C-1								X								X		X		X		6-16-4		130		X		X		X	
		22 Sp 13 @ Surface		C-1								X								X		X		X		6-18-1		210		X		X		X	

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Relinquished By: <i>Cliff Brunson</i>		Date: <i>6-23-4</i>		Received By: <i>Dei. Benson</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Time: <i>13:45</i>		Date:		Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS:			
Time:		Date:		Received By:					
Delivered By: (Circle One)				Sample Condition		CHECKED BY:			
Sampler - UPS - Bus - Other: <i>-20</i>				Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		<i>CH</i>			

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

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