Bratcher, Mike, EMNRD

From: Cliff P. Brunson [cbrunson@bbcinternational.com]

Sent: Wednesday, July 13, 2011 6:24 PM

Bratcher, Mike, EMNRD To:

Kelton Beaird; Rick Kerby, Ken Swinney, Jennifer Gilkey Cc:

Subject: Oxy-128 Production Facility

Oxy-128 Production Facility-field notes and lab data.pdf Attachments:

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 Mailing Address: P. O. Box 805 Hobbs, NM 88241-0805 USA Shipping Address: 1324 W. Marland St. Hobbs, NM 88240 USA Phone: (575) 397-6388 Fax: (575) 397-0397

E-Mail: cbrunson@bbcinternational.com

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| | | : | | |
| | <u> </u> | | | |



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 Hydorcarbons

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

Cardinal Laboratories is accreditated 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.

Celey D. Keene

This report meets NELAP regulrements 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



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: Project Location: NONE GIVEN CARLSBAD, NM Sample Received By:

Jodi Henson

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

| BTEX 8021B | mg/kg | | Analyzed By: CMS | | | | | | |
|--------------------------------------|--------|-----------------|------------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BŞ | % 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 (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 | 688 | 16.0 | 06/24/2011 | ND | 432 | 108 | · 400 | 3.77 | |
| TPH 8015M | mg | /kg | Analyze | d 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)

| Chlori | de, SM4500CI-B | mg/kg | | Analyzed By: HM | | | | | | |
|--------|----------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| ٠ | Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chlor | ide | 240 | 16.0 | 06/24/2011 | ND | 432 | 108 | 400 | 3.77 | • |
| | | | | | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celey D. Kune



BBC International, Inc. **Clff 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:

Soll

Project Name:

128 PRODUCTION FACILITY NONE GIVEN

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number:

Project Location: CARLSBAD, NM

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

| 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 | 06/25/2011 | 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, SM4500CI-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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PLEASE NOTE: Usblidy and Damages

Celeg D. Kune Celey D. Keene, Lab Director/Quality Manager

Page 3 of 18



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 3 @ SURFACE (H101301-05)

| BTEX 8021B | mg/kg | | Analyzed By: CMS | | | | | | |
|--------------------------------------|-----------------|-----------------|------------------|--------------|------|------------|---------------|--------------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Quailfier |
| 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 | II 102 % 70-130 | | | | | | | | 2.1. |
| 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 | Analyze | d 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, SM4500CI-B | mg/kg | | Analyze | а ву: нм | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| 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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Celey D. Keine



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 4 @ SURFACE (H101301-07)

| BTEX 8021B | mg/kg | | Analyzed By: CMS | | | | | | |
|--------------------------------------|--------|-----------------|------------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BŞ | % 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* | 0.081 | 0.050 | 06/27/2011 | ND | 1,88 | 94.1 | 2.00 | 13.0 | |
| Total Xylenes* | 0.479 | 0.150 | 06/27/2011 | ND | 5.61 | 93.5 | 6.00 | 12.1 | |
| Surrogate: 4-Bromofluorobenzene (PIL | 103 9 | % 70-130 |) | | | • | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: HM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 288 | 16.0 | 06/24/2011 | ND | 432 | 108 | 400 | 3.77 | |
| TPH 8015M | mg/ | kg | Analyze | d By: ab | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | 89.1 | 50.0 | 06/25/2011 | ND | 184 | 91.8 | 200 | 2.31 | |
| DRO >C10-C28 | 16800 | 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, SM4500CI-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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Celey & Keine Celey D. Keene, Lab Director/Quality Manager

Page 5 of 18



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 5 @ SURFACE (H101301-09)

| BTEX 8021B | mg/kg | | Analyze | 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 | 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 . | Analyze | d 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 | 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 9 | % 70-13 | o · | | | | | | |
| Surrogate: I-Chlorooctadecane | 907 | % 70-130 | Ó | | | | | | |
| | | | | | | | | | |

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. Keine



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 6 @ SURFACE (H101301-11)

| BTEX 8021B | mg/ | kg | Analyze | d By: CM5 | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| 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 9 | % 70-130 | | | | | | | |
| Chloride, SM4500CI-B | mg/ | 'kg | Analyze | d 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 | Analyze | d 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 | NĎ | 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)

| Chioride, SM4500CI-B | mg | /kg | Алајухе | d 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 | |

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Celey D. Keene, Lab Director/Quality Manager

Page 7 of 18



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

Fax To:

(505) 397-0397

Received: Reported: 06/23/2011

06/28/2011

128 PRODUCTION FACILITY

Project Name: Project Number: Project Location:

NONE GIVEN

CARLSBAD, NM

Sampling Date:

Sampling Type:

06/15/2011 Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

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

| BTEX 8021B | mg/ | kg | Analyze | d 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, SM4500CI-B | mg/ | kg | Analyze | d 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 | Analyze | d By: ab | | | | | |
| Analyte . | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPO | 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 | 1 | | | | | | |

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

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

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Fax To:

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Received: Reported: 06/23/2011

06/28/2011

128 PRODUCTION FACILITY

Project Name: Project Number:

NONE GIVEN

Project Location:

CARLSBAD, NM

Sampling Date:

Sampling Type:

06/16/2011

ling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

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

| mg/ | kg | Analyzed By: MS | | | | | | |
|--------|---|---|--|---|--|---|---|---|
| Result | Reporting Limit | Analyzed | Method Blank | B\$ | % Recovery | True Value QC | RPD | Qualifier |
| <0.001 | 0.001 | 06/27/2011 | ND | 1.81 | 90.6 | 2.00 | 11.4 | |
| 0.046 | 0.001 | 06/27/2011 | ND | 1.90 | 95.2 | 2.00 | 11.6 | |
| 0.074 | 0.001 | 06/27/2011 | ND | 1.88 | 94.1 | 2.00 | 13.0 | |
| 0.446 | 0.003 | 06/27/2011 | ND | 5.61 | 93.5 | 6.00 | 12.1 | |
| 101 9 | | | | | | | | |
| mg/ | kg | Analyze | d By: HM | | | | | |
| Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| 336 | 16.0 | 06/24/2011 | ND | 432 | 108 | 400 | 3.77 | |
| mg/ | kg | Analyze | d By: ab | | , _ | | | |
| Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| <10.0 | 10.0 | 06/25/2011 | ND | 208 | 104 | 200 | 2.59 | |
| 802 | 10.0 | 06/25/2011 | ND | 220 | 110 | 200 | 0.144 | |
| 113 9 | % 70-130 | | | | | | | |
| 102 9 | % 70-130 | | | | | | | |
| | Result <0.001 0.046 0.074 0.446 1019 mg/ Result 336 mg/ Result <10.0 802 | <0.001 0.001 0.046 0.001 0.074 0.001 0.446 0.003 101 % 70-130 mg/kg Result Reporting Limit 336 16.0 mg/kg Result Reporting Limit <10.0 10.0 802 10.0 | Result Reporting Limit Analyzed <0.001 | Result Reporting Limit Analyzed Method Blank <0.001 | Result Reporting Limit Analyzed Method Blank BS <0.001 | Result Reporting Limit Analyzed Method Blank BS % Recovery <0.001 | Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.001 | Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.001 |

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

| Chloride, SM4500CI-B | mg, | /kg | Analyze | d By: HM | | <u> </u> | | | |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| 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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Fax To:

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Received: Reported: 06/23/2011

06/28/2011 128 PRODUCTION FACILITY

Project Name: Project Number:

NONE GIVEN

Project Location:

CARLSBAD, NM

Sampling Date:

06/16/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

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

| BTEX 8021B | mg/ | kg | Analyze | d 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 | 2.4 2 | |
| 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 | Analyze | d 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 | Analyze | d 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, SM4500CI-B | mg. | /kg | Analyze | d 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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Celecy D. Keine



BBC International, Inc. Cliff Brunson

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Fax To:

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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)

| BTEX 8021B | mg, | /kg | Analyze | d 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 | Analyze | d 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 | Analyze | ed 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: I-Chlorooctadecane | 101 | % 70-130 |) | | | | | | |

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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 11 @ SURFACE (H101301-20)

| BTEX 8021B | mg/ | kg | Analyze | d By: CMS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifie |
| Benzêne* | <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 | |
| Total Xylenes* | 0.236 | 0.150 | 06/27/2011 | ND | 5.45 | 90.8 | 6.00 | 2.85 | |
| Surrogate: 4-Bromofluorobenzene (PIL | 101 : | % 70-130 | 1 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | rkg | Analyze | d 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 | |
| TPH 8015M | mg/ | /kg | Analyze | d 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 | |
| DRO >C10-C28 | 59.8 | 10.0 | 06/27/2011 | ND | 220 | 110 | 200 | 0.144 | |
| Surrogate: 1-Chlorooctane | 97.5 | % 70-130 |) | | | | | | |
| Surrogate: 1-Chlorooctadecane | 107 | % 70-130 |) | | | | | | |

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Celecy D. Keene



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Hobbs NM, 88241

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Received:

06/23/2011

Sampling Date:

06/16/2011

Reported:

.06/28/2011

Sampling Type:

Project Name:

128 PRODUCTION FACILITY

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodl Henson

Project Location:

CARLSBAD, NM

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

| BTEX 8021B | · mg/ | kg | Analyze | d 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, SM4500CI-B | mg/ | kg | Analyze | ed 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 | 4 |
| TPH 8015M | mg/ | kg | Analyze | ed 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 9 | % 70-130 | | | | | | | |
| Surrogate: I-Chlorooctadecane | 890 9 | % 70-130 | | | | | | | |

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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 13 @ SURFACE (H101301-22)

| BTEX 8021B | mg/ | kg | Analyze | d 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/ | lkg | Analyze | d 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 | Analyze | d 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: I-Chlorooctane | 1050 | % 70-130 |) | | | | | | |
| Surrogate: I-Chlorooctadecane | 901 | % 70-130 |) | | | | | | |

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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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Any other case whatesteener shall be deemed unless made in writing and received by Cerdinal within (20) days after completion of the applicable service. In no event shall Cardenal be fable, for indotral or consequential damages, including, without limitation, bashess interruptions, less of use, or loss, or loss, or profits incurred by client, its subsidiaries, affiliates or accessors arising out of or nataset to the performance of the services bereamder by Cardenal to Cardenal and Cardenal and

Celey D. Keene, Lab Director/Quality Manager

Celeg & Keene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc. BILLTO ANALYSIS REQUEST Project Manager: Cliff Brunson P.O. #: Address: P.O. Box 805 Company: City: Hobbs State: NM Zip: 88241 Attn: Address: Sciente Phone #: 575-397-6388 575-397-0397 Project #: City: Project Name: State: Zlp: Phone #: Project Location: Fax #: Sampler Name: MATRIX PRESERV. SAMPLING FOR LAB USE ONLY BTE Lab I.D. Sample I.D. 110130 DATE TIME 09 analysiss. All claims including those for negligence and any other cause wheteverur shall be decemed watved unless made in willing and seconded by Caudinal william 30 days infer completion of the explicable servico. In no event alkali Cardinal be itsute for incluental or consequencel deparages, including valvout limitation, business the pupilione, lose of use, or lose of prolits incurred by citical, its subsidistica. ☐ Yes ☐ No Add'l Phone #:
☐ Yes ☐ No Add'l Fax #: Phone Result: Reinquished By: Fex Result: REMARKS: Relinguished By: Time: Sample Condition Cool Intect Yes Yes No No CHECKED BY: Delivered By: (Circle One) Sampler - UPS - Bus - Other:

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

#20



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



| (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: | | | | | | | | | | | | | |
| Project #: Project Owner: CXY MC | City: - 4100 | | | | | | | | | | | | | |
| Project Name: 178 Production facility | State: Zip: | | | | | | | | | | | | | |
| Project Location: Carl show wolf | Phone #: | | | | | | | | | | | | | |
| Sampler Name: Just Conel- | Fax #: | | | | | | | | | | | | | |
| FOR LAB USE ONLY MATRIX | PRESERV. SAMPLING | 4 1 | | | | | | | | | | | | |
| N N N N N N N N N N N N N N N N N N N | | 2/11/11/11/11 | | | | | | | | | | | | |
| Lab I.D. Sample I.D. OR | <u> </u> | | | | | | | | | | | | | |
| Tab I.D. Samble I.D. Sample I. | 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | | | | | | | | | | | | | |
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| ntrives. In no event shall Cardinal be bable for incidental or consequents' damages, including without britistion business interruptors (Bisides or successors grising out of or related to the performance of services bereunder by Cardinal, recardess of whether each claim. | toss of use or loss of profits incurred by chent. Its subsidia | anos. se | | | | | | | | | | | | |
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| Company Name: BBC International, Inc. | | | | | :: | | | IL. | LTO | | ! | | | | ANA | LYSIS | RE | QUE | ST_ | | | | | |
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| Project Manager: Cliff Brunson | | | | | | F | .O. # | t: | | | | | | | | | | | | | | | | |
| Address: P.O. Box 805 | | | | | | omp | any: | | | ···· | 1 | | | l | | | | | | 1 1 | | | | |
| city: Hobbs State: NM Zip: 88241 | | | | | | A | Attn: | | | | | | | | | | | | | | | | | |
| Phone #: 575-397-6388 Fax #: 575-397-0397 | | | | | Α | Address: Souling | | | | | | | | ĺ | | (i | | ! | | | | | | |
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