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IRP 4146

Leking, Geoffrey R, EMNRD

From: Cliff P. Brunson <cbrunson@bbcinternational.com>
Sent: Sunday, December 16, 2012 6:56 PM
To: Leking, Geoffrey R, EMNRD
Cc: Chris Jones; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: Oxy NM State #002
Attachments: Remediation Packet-NM State #002-2.pdf

HOBBS OCD

DEC 15 2012

Geoff,

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This message is to confirm our discussion on December 7, 2012 concerning the remediation plan for the Oxy NM State #002 leak site. I have attached the site diagram, groundwater plot, and lab data summary table that we used in our discussion. As mutually agreed, Oxy will excavate to a depth of 1.5 feet in the areas of SP1 and SP3 as depicted on the drawing. In the area of SP2, the impacted soil will be just surfaced scraped. An initial response was conducted right after the spill and a few inches of the heavily impacted soil was removed previously. Upon completion of the excavation, the site will be backfilled with clean soil.

If you would please reply back via e-mail with your concurrence to this plan, it would be greatly appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland St.
Hobbs, NM 88240 USA
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approved
Geoffrey Leking
Environmental Specialist
NMOC - DIST 1
12/19/12

12/15



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Oxy

NM State #002



U/L K, Section 11, T10S, R 32E
2105' FSL and 1604' FWL
Lea County, NM
N 33.45890° W 103.64609°
API# 30-025-00014

X SP3 N 33.45886° W 103.64632°

X SP2 N 33.45890° W 103.64609°

X SP1 N 33.45916° W 103.64581°

BBC International, Inc.

Oxy

NM State #002

| | |
|------------------|--------------------|
| Date: 12/05/2012 | DRWG by: K. Purvis |
| NOT TO SCALE | File: Oxy 2012 |

12/15



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DEC 15 2012

Groundwater Plot Oxy NM State #2

County
Lea

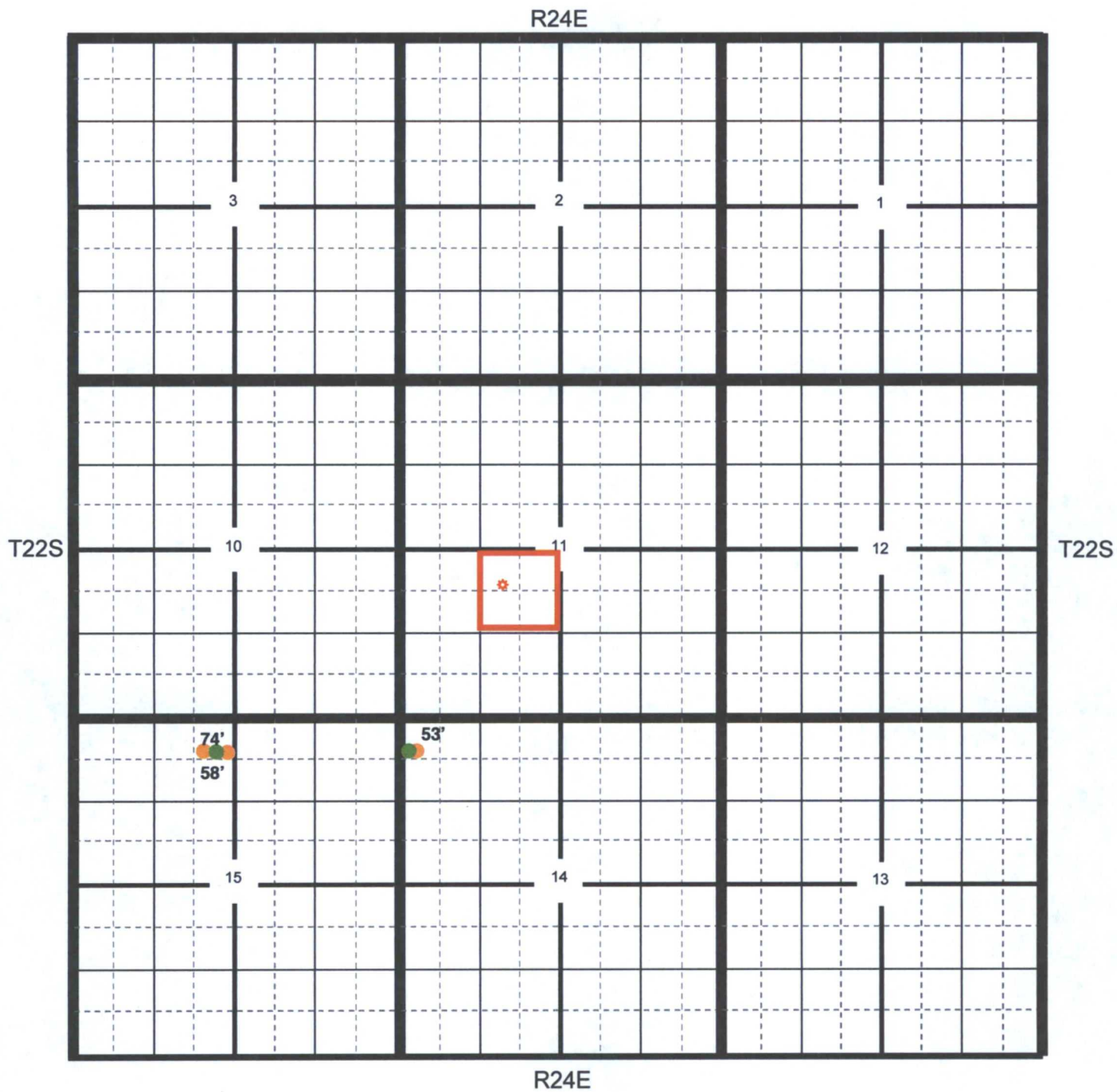
Unit Letter
K

Section
11

Township
10S

RECEIVED
Range
32E

Trend Map >50'



Location

OCD

USGS

SEO

All Databases



Section Quarters

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DEC 15 2012

Oxy NM State #002


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County Unit Letter Section Township Range
Lea K 11 10S 32E

Trend Map >50'

1

2

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

3

4

Laboratory Analytical Results Summary
NM State #002

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| Analyte | Method | Sample Date | SP1 @ 1' | SP1 @ 2' |
|---------------|------------|-------------|----------|----------|
| | | | 11/29/12 | 11/29/12 |
| | | | mg/Kg | mg/Kg |
| Benzene | BTEX 8021B | | <0.050 | <0.050 |
| Toluene | BTEX 8021B | | <0.050 | <0.050 |
| Ethylbenzene | BTEX 8021B | | <0.050 | <0.050 |
| Total Xylenes | BTEX 8021B | | <0.150 | <0.150 |
| Total BTEX | BTEX 8021B | | <0.300 | <0.300 |
| Chloride | SM4500Cl-B | | 6000 | 160 |
| GRO | TPH 8015M | | <10.0 | <10.0 |
| DRO | TPH 8015M | | <10.0 | <10.0 |

| Analyte | Method | Sample Date | SP2 @ 1' | SP2 @ 2' |
|---------------|------------|-------------|----------|----------|
| | | | 11/29/12 | 11/29/12 |
| | | | mg/Kg | mg/Kg |
| Benzene | BTEX 8021B | | <0.050 | <0.050 |
| Toluene | BTEX 8021B | | <0.050 | <0.050 |
| Ethylbenzene | BTEX 8021B | | <0.050 | <0.050 |
| Total Xylenes | BTEX 8021B | | <0.150 | <0.150 |
| Total BTEX | BTEX 8021B | | <0.300 | <0.300 |
| Chloride | SM4500Cl-B | | <16.0 | <16.0 |
| GRO | TPH 8015M | | <10.0 | <10.0 |
| DRO | TPH 8015M | | 13.6 | <10.0 |

| Analyte | Method | Sample Date | SP3 @ 1' | SP3 @ 2' |
|---------------|------------|-------------|----------|----------|
| | | | 11/29/12 | 11/29/12 |
| | | | mg/Kg | mg/Kg |
| Benzene | BTEX 8021B | | <0.050 | <0.050 |
| Toluene | BTEX 8021B | | <0.050 | <0.050 |
| Ethylbenzene | BTEX 8021B | | 0.152 | <0.050 |
| Total Xylenes | BTEX 8021B | | <0.150 | <0.150 |
| Total BTEX | BTEX 8021B | | <0.300 | <0.300 |
| Chloride | SM4500Cl-B | | 1490 | 96 |
| GRO | TPH 8015M | | <50.0 | <10.0 |
| DRO | TPH 8015M | | 506 | <10.0 |

December 04, 2012

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

HOBBS OCD

DEC 15 2012

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RE: NM STATE #002

Enclosed are the results of analyses for samples received by the laboratory on 12/03/12 8:25.

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,



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: 12/03/2012
Reported: 12/04/2012
Project Name: NM STATE #002
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 11/29/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1' (H202896-01)

| BTEx 8021B | | | mg/kg | | Analyzed By: MS | | | | | |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 12/03/2012 | ND | 1.70 | 85.0 | 2.00 | 1.22 | | |
| Toluene* | <0.050 | 0.050 | 12/03/2012 | ND | 1.91 | 95.3 | 2.00 | 2.78 | | |
| Ethylbenzene* | <0.050 | 0.050 | 12/03/2012 | ND | 1.87 | 93.3 | 2.00 | 3.28 | | |
| Total Xylenes* | <0.150 | 0.150 | 12/03/2012 | ND | 5.70 | 95.0 | 6.00 | 3.24 | | |
| Total BTEx | <0.300 | 0.300 | 12/03/2012 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PIE) 122 % 89.4-126

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 6000 | 16.0 | 12/03/2012 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 12/03/2012 | ND | 180 | 90.2 | 200 | 0.988 | |
| DRO >C10-C28 | <10.0 | 10.0 | 12/03/2012 | ND | 195 | 97.5 | 200 | 1.26 | |

Surrogate: 1-Chlorooctane 86.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.1 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/03/2012
Reported: 12/04/2012
Project Name: NM STATE #002
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 11/29/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 2' (H202896-02)

| BTEx 8021B | | | mg/kg | | Analyzed By: MS | | | | |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 12/03/2012 | ND | 1.70 | 85.0 | 2.00 | 1.22 | |
| Toluene* | <0.050 | 0.050 | 12/03/2012 | ND | 1.91 | 95.3 | 2.00 | 2.78 | |
| Ethylbenzene* | <0.050 | 0.050 | 12/03/2012 | ND | 1.87 | 93.3 | 2.00 | 3.28 | |
| Total Xylenes* | <0.150 | 0.150 | 12/03/2012 | ND | 5.70 | 95.0 | 6.00 | 3.24 | |
| Total BTEx | <0.300 | 0.300 | 12/03/2012 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 122 % 89.4-126

| Chloride, SM4500Cl-B | | | mg/kg | | Analyzed By: HM | | | | |
|----------------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 160 | 16.0 | 12/03/2012 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | | mg/kg | | Analyzed By: MS | | | | |
|--------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 12/03/2012 | ND | 180 | 90.2 | 200 | 0.988 | |
| DRO >C10-C28 | <10.0 | 10.0 | 12/03/2012 | ND | 195 | 97.5 | 200 | 1.26 | |

Surrogate: 1-Chlorooctane 78.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.8 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/03/2012
Reported: 12/04/2012
Project Name: NM STATE #002
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 11/29/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ 1' (H202896-03)

| BTX 8021B | | | mg/kg | | Analyzed By: MS | | | | |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 12/03/2012 | ND | 1.70 | 85.0 | 2.00 | 1.22 | |
| Toluene* | <0.050 | 0.050 | 12/03/2012 | ND | 1.91 | 95.3 | 2.00 | 2.78 | |
| Ethylbenzene* | <0.050 | 0.050 | 12/03/2012 | ND | 1.87 | 93.3 | 2.00 | 3.28 | |
| Total Xylenes* | <0.150 | 0.150 | 12/03/2012 | ND | 5.70 | 95.0 | 6.00 | 3.24 | |
| Total BTX | <0.300 | 0.300 | 12/03/2012 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIC) 122 % 89.4-126

| Chloride, SM4500CI-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 | 12/03/2012 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | | mg/kg | | Analyzed By: MS | | | | |
|--------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 12/03/2012 | ND | 180 | 90.2 | 200 | 0.988 | |
| DRO >C10-C28 | 13.6 | 10.0 | 12/03/2012 | ND | 195 | 97.5 | 200 | 1.26 | |

Surrogate: 1-Chlorooctane 76.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.6 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 12/03/2012
 Reported: 12/04/2012
 Project Name: NM STATE #002
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

 Sampling Date: 11/29/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 2' (H202896-04)

| BTEx 8021B | | | mg/kg | | Analyzed By: MS | | | | |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 12/03/2012 | ND | 1.70 | 85.0 | 2.00 | 1.22 | |
| Toluene* | <0.050 | 0.050 | 12/03/2012 | ND | 1.91 | 95.3 | 2.00 | 2.78 | |
| Ethylbenzene* | <0.050 | 0.050 | 12/03/2012 | ND | 1.87 | 93.3 | 2.00 | 3.28 | |
| Total Xylenes* | <0.150 | 0.150 | 12/03/2012 | ND | 5.70 | 95.0 | 6.00 | 3.24 | |
| Total BTEX | <0.300 | 0.300 | 12/03/2012 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 121 % 89.4-126

| 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 | 12/03/2012 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | | mg/kg | | Analyzed By: MS | | | | |
|--------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 12/03/2012 | ND | 180 | 90.2 | 200 | 0.988 | |
| DRO >C10-C28 | <10.0 | 10.0 | 12/03/2012 | ND | 195 | 97.5 | 200 | 1.26 | |

Surrogate: 1-Chlorooctane 77.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.3 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/03/2012
Reported: 12/04/2012
Project Name: NM STATE #002
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 11/29/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 1' (H202896-05)

| BTEX 8021B | | | mg/kg | | Analyzed By: MS | | | S-04 | | |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Benzene* | <0.050 | 0.050 | 12/03/2012 | ND | 1.70 | 85.0 | 2.00 | 1.22 | | |
| Toluene* | <0.050 | 0.050 | 12/03/2012 | ND | 1.91 | 95.3 | 2.00 | 2.78 | | |
| Ethylbenzene* | 0.152 | 0.050 | 12/03/2012 | ND | 1.87 | 93.3 | 2.00 | 3.28 | | |
| Total Xylenes* | <0.150 | 0.150 | 12/03/2012 | ND | 5.70 | 95.0 | 6.00 | 3.24 | | |
| Total BTEX | <0.300 | 0.300 | 12/03/2012 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 128 % 89.4-126

| Chloride, SM4500Cl-B | | | mg/kg | | Analyzed By: HM | | | | | |
|----------------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 1490 | 16.0 | 12/03/2012 | ND | 416 | 104 | 400 | 0.00 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <50.0 | 50.0 | 12/03/2012 | ND | 180 | 90.2 | 200 | 0.988 | |
| DRO >C10-C28 | 506 | 50.0 | 12/03/2012 | ND | 195 | 97.5 | 200 | 1.26 | |

Surrogate: 1-Chlorooctane 88.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/03/2012
Reported: 12/04/2012
Project Name: NM STATE #002
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 11/29/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ 2' (H202896-06)

| BTEX 8021B | | | mg/kg | | Analyzed By: MS | | | | |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 12/03/2012 | ND | 1.70 | 85.0 | 2.00 | 1.22 | |
| Toluene* | <0.050 | 0.050 | 12/03/2012 | ND | 1.91 | 95.3 | 2.00 | 2.78 | |
| Ethylbenzene* | <0.050 | 0.050 | 12/03/2012 | ND | 1.87 | 93.3 | 2.00 | 3.28 | |
| Total Xylenes* | <0.150 | 0.150 | 12/03/2012 | ND | 5.70 | 95.0 | 6.00 | 3.24 | |
| Total BTEX | <0.300 | 0.300 | 12/03/2012 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PIL) 121 % 89.4-126

| 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 | 12/03/2012 | ND | 416 | 104 | 400 | 0.00 | |

| TPH 8015M | | | mg/kg | | Analyzed By: MS | | | | |
|--------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 12/03/2012 | ND | 180 | 90.2 | 200 | 0.988 | |
| DRO >C10-C28 | <10.0 | 10.0 | 12/03/2012 | ND | 195 | 97.5 | 200 | 1.26 | |

Surrogate: 1-Chlorooctane 83.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.1 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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