

# Closure Report

## Site Description

|                    |                              |
|--------------------|------------------------------|
| Site Name:         | New Mexico DW State #002     |
| Company:           | COG Operating LLC            |
| Legal Description: | U/L E, Section 6, T22S, R35E |
| County:            | Lea County, NM               |
| GPS Coordinates:   | N 32.42274° W 103.41295°     |

## Release Data

|                    |                                    |
|--------------------|------------------------------------|
| Date of Release:   | 12/29/2016                         |
| Type of Release:   | Oil and produced water             |
| Source of Release: | Flow line                          |
| Volume of Release: | 15 bbls oil, 6 bbls produced water |
| Volume Recovered:  | 11 bbls oil, 0 bbls produced water |

## Remediation Specifications

|                         |   |  |
|-------------------------|---|--|
| Remediation Parameters: | Excavate the entire spill area to a depth of 1 foot. Obtain confirmation bottom and sidewall samples t 1 foot. Backfill the site with clean soil. |  |
| Remediation Activities: | 07/26/2017 to 08/04/2017  |  |
| Plan Sent to OCD:       | 05/22/2017  | Email from Cliff Brunson to Olivia Yu    |
| OCD Approval of Plan:   | 06/14/2017  | Email from Olivia Yu to Cliff Brunson    |
| Plan Sent to SLO:       | 05/22/2017  | Email from Cliff Brunson to Amber Groves |
| BLM Approval of Plan:   | 07/06/2017  | Email from Amber Groves to Cliff Brunson |

## Supporting Documentation

|                  |  |
|------------------|--|
| Initial C-141    | Signed 12/30/2016                                  |
| Final C-141      | Signed 08/23/2017                                  |
| Site Diagram     | February 2017                                      |
| Groundwater Plot | <50'   |
| TOPO Maps        | February 2017                                      |
| Lab Summary      | 02/08/2017, 04/26/2017, and 07/27/2017             |
| Lab Analysis     | 02/08/2017, 04/26/2017, 07/27/2017                 |
| Correspondence   | Request and approval of remediation plan via email |

## Request for Closure

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

Cliff Brunson, President of BBC International Inc.

08/30/2017

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Received by OCD: 11/10/2022 9:05:08 AM  
Released to Imaging: 11/10/2022 9:11:05 AM

District I  
625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

|                  |  |                |                |
|------------------|--|----------------|----------------|
| Name of Company: | COG Operating LLC                          | Contact:       | Robert McNeill |
| Address:         | 600 West Illinois Avenue, Midland TX 79701 | Telephone No.  | 432-683-7443   |
| Facility Name:   | New Mexico DW State #002                   | Facility Type: | Flowline       |

|                |       |                |         |              |
|----------------|-------|----------------|---------|--------------|
| Surface Owner: | State | Mineral Owner: | API No. | 30-025-32467 |
|----------------|-------|----------------|---------|--------------|

LOCATION OF RELEASE

|             |         |          |       |               |                  |               |                |        |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
| E           | 06      | 22S      | 35E   | 1980          | North            | 660           | West           | Lea    |

Latitude 32.4227219 Longitude 103.4127121

NATURE OF RELEASE

|                             |  |   |                           |                             |                           |
|-----------------------------|--|---|---------------------------|-----------------------------|---------------------------|
| Type of Release:            | Oil and Produced Water   | Volume of Release:                        | 15 bbls Oil & 6 bbls PW   | Volume Recovered:           | 11 bbls Oil & 0 bbls PW   |
| Source of Release:          | Flowline   | Date and Hour of Occurrence:              | December 29, 2016 7:30 am | Date and Hour of Discovery: | December 29, 2016 7:30 am |
| Was Immediate Notice Given? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Not Required | If YES, To Whom?                          |                           |                             |                           |
| By Whom?                    |  | Date and Hour:                            |                           |                             |                           |
| Was a Watercourse Reached?  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | If YES, Volume Impacting the Watercourse. |                           |                             |                           |

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

There was a leak at the steel to poly transition. The steel to poly transition section was replaced.

Describe Area Affected and Cleanup Action Taken.\*

The release occurred on the well pad. A vacuum truck was dispatched to remove all freestanding fluids. Concho will have the spill area sampled to delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

|                 |                        |        |              |                                       |                                   |
|-----------------|------------------------|--------|--------------|---------------------------------------|-----------------------------------|
| Signature:      | <u>Rebecca Haskell</u> |        |              | <u>OIL CONSERVATION DIVISION</u>      |                                   |
| Printed Name:   | Rebecca Haskell        |        |              | Approved by Environmental Specialist: |                                   |
| Title:          | Senior HSE Coordinator |        |              | Approval Date:                        | Expiration Date:                  |
| E-mail Address: | rhaskell@concho.com    |        |              | Conditions of Approval:               | Attached <input type="checkbox"/> |
| Date:           | 12/30/16               | Phone: | 432-683-7443 |                                       |                                   |

Attach Additional Sheets If Necessary

Page 3 of 67  
Received by OGD: 11/10/2022 9:05:08 AM  
Released to Imaging: 11/10/2022 9:11:05 AM

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
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1220 South St. Francis Dr.  
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Form C-141  
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

|  |                            |
|--|----------------------------|
| Name of Company: COG Operating LLC                   | Contact: Robert McNeill    |
| Address: 600 West Illinois Avenue, Midland, TX 79701 | Telephone No. 432-230-0077 |
| Facility Name: New Mexico DW State #002              | Facility Type: Flow line   |

|                      |                |                      |
|----------------------|----------------|----------------------|
| Surface Owner: State | Mineral Owner: | API No. 30-025-32467 |
|----------------------|----------------|----------------------|

LOCATION OF RELEASE

|             |         |          |       |               |                  |               |                |                |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|----------------|
| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County         |
| E           | 06      | 22S      | 35E   | 1980          | North            | 660           | West           | Lea County, NM |

Latitude N 32.42274° Longitude W 103.41295°

NATURE OF RELEASE

|   |   |  |
|---|---|--|
| Type of Release: Oil and Produced water   | Volume of Release:<br>15 bbls oil & 6 bbls water    | Volume Recovered:<br>11 bbls oil & 0 bbls water    |
| Source of Release: Flow line  | Date and Hour of Occurrence<br>12/29/2016 @ 7:30 am | Date and Hour of Discovery<br>12/29/2016 @ 7:30 am |
| Was Immediate Notice Given?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Not Required | If YES, To Whom?                                    |  |
| By Whom?  | Date and Hour:                                      |  |
| Was a Watercourse Reached?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No   | If YES, Volume Impacting the Watercourse.           |  |

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

There was a leak at the steel to poly transition. The steel to poly transition section was replaced.

Describe Area Affected and Cleanup Action Taken.\*

The release occurred on the well pad. A vacuum truck was dispatched to remove all freestanding fluids.. The site was delineated according to OCD standards and a remediation plan was created. Remediation was completed in accordance with the remediation plan approved by Olivia Yu of NMOCD via email on 06/14/2017 and approved by Amber Groves of the SLO via email on 07/06/2017.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

|                                     |   |                                   |
|-------------------------------------|---|-----------------------------------|
| Signature: <i>Rebecca Haskell</i>   | <b>OIL CONSERVATION DIVISION</b>                            |                                   |
| Printed Name: Rebecca Haskell       | Approved by Environmental Specialist: <i>Ashley Maxwell</i> |                                   |
| Title: Senior HSE Coordinator       | Approval Date:  | Expiration Date:                  |
| E-mail Address: rhaskell@concho.com | Conditions of Approval:                                     | Attached <input type="checkbox"/> |
| Date: August 23, 2017               | Phone: (432) 683-7443                                       |                                   |

Attach Additional Sheets If Necessary

**APPROVED**


By Ashley Maxwell at 9:01 am, Nov 10, 2022

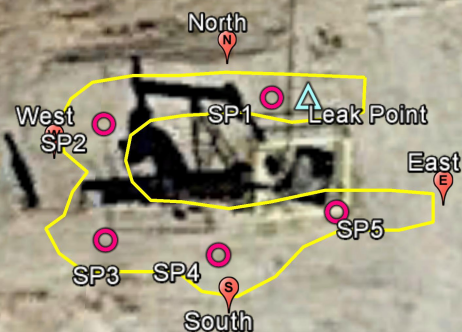


# COG, NM DW State #002

Leak date: 12/29/2016  
Lea County, NM  
API# 30-025-34267

## Legend

-  East Sample, hand auger
-  Leak Point
-  North Sample, hand auger
-  Sample points, hand auger
-  South Sample, hand auger
-  Spill Area
-  West Sample, hand auger



1 ft excavation across entire  
spill area

Google Earth

60 ft





COG, NM DW State #002

Sample points, hand auger

SP1, N 32.42281 W-103.41286

SP2, N 32.42280 W-103.41293

SP3, N 32.42276 W-103.41292

SP4, N 32.42275 W-103.41288

SP5, N 32.42277 W-103.41283

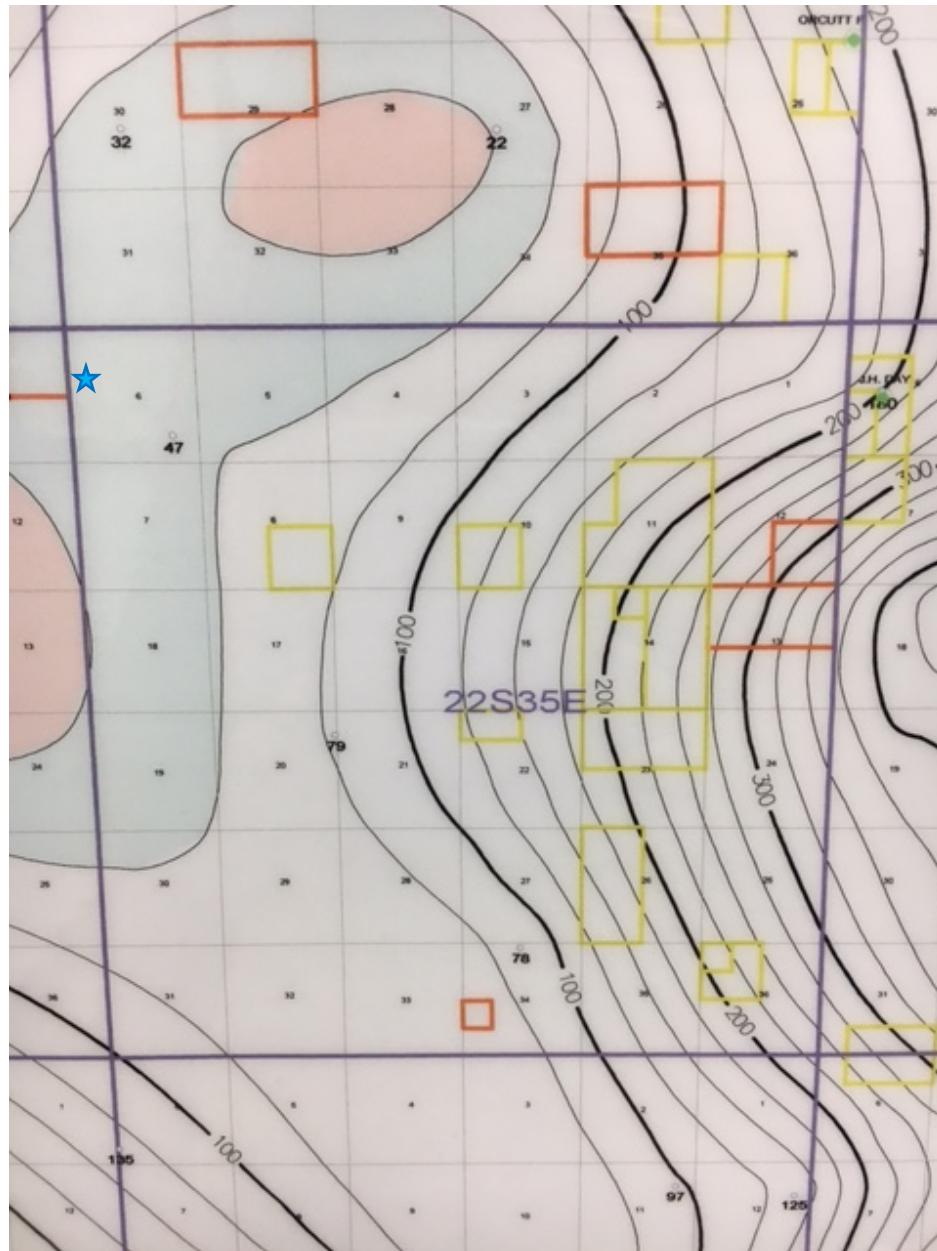
NORTH, N 32.42283 W-103.41288

SOUTH, N 32.42273 W-103.41287

EAST, N 32.42277 W-103.41279

WEST, N 32.42279 W-103.41295

**COG, NM DW State #002**  
**U/L E, Section 6, T 22S, R35E**  
**Groundwater: <50'**







# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,  
O=orphaned,  
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

| POD Number                    | Code | POD Sub-basin | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng | X      | Y        | Distance                 | DepthWell | DepthWater | Water Column |
|-------------------------------|------|---------------|--------|------|------|-----|-----|-----|-----|--------|----------|--------------------------|-----------|------------|--------------|
| <a href="#">CP 00934</a>      |      |               | LE     | 2    | 1    | 2   | 01  | 22S | 34E | 648682 | 3588822  | <input type="checkbox"/> | 711       | 60         | 42 18        |
| <a href="#">CP 00604</a>      |      |               | LE     | 1    | 4    | 4   | 01  | 22S | 34E | 648743 | 3587666* | <input type="checkbox"/> | 865       | 135        |              |
| <a href="#">CC 00212 POD3</a> |      |               | CU     | 3    | 4    | 2   | 07  | 02N | 34E | 649365 | 3587386  | <input type="checkbox"/> | 998       | 368        |              |
| <a href="#">CP 00593 POD1</a> |      | CP            | LE     |      | 4    | 4   | 06  | 22S | 35E | 650422 | 3587591* | <input type="checkbox"/> | 1421      | 62         |              |

Average Depth to Water: **42 feet**

Minimum Depth: **42 feet**

Maximum Depth: **42 feet**

**Record Count:** 4

### UTMNAD83 Radius Search (in meters):

**Easting (X):** 649237

**Northing (Y):** 3588377

**Radius:** 1700

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

5/16/17 10:15 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

### Public Land Survey System (PLSS)

Q64:                      Q16: SW                      Q4: NW                      Sec: 06                      Tws: 22S                      Rng: 35E

### State Plane Coordinate System - NAD27

X:                      ft                      Y:                      ft                      Zone:

### State Plane Coordinate System - NAD83

X:                      ft                      Y:                      ft                      Zone:

### Degrees/Minutes/Seconds

Longitude (X):                      Degrees:                      °                      Minutes:                      '                      Seconds:                      "

Latitude (Y):                      Degrees:                      °                      Minutes:                      '                      Seconds:                      "

### UTM - NAD27

Easting (X):                      mtrs                      Northing (Y):                      mtrs                      Zone:

**SUBMIT**

All Conversion Results are displayed as **NAD 1983 UTM Zone 13**

Easting (X): **649237.0** mtrs                      Northing (Y): **3588377.0** mtrs

~~ Please keep screen open to copy UTM values for Reports. ~~



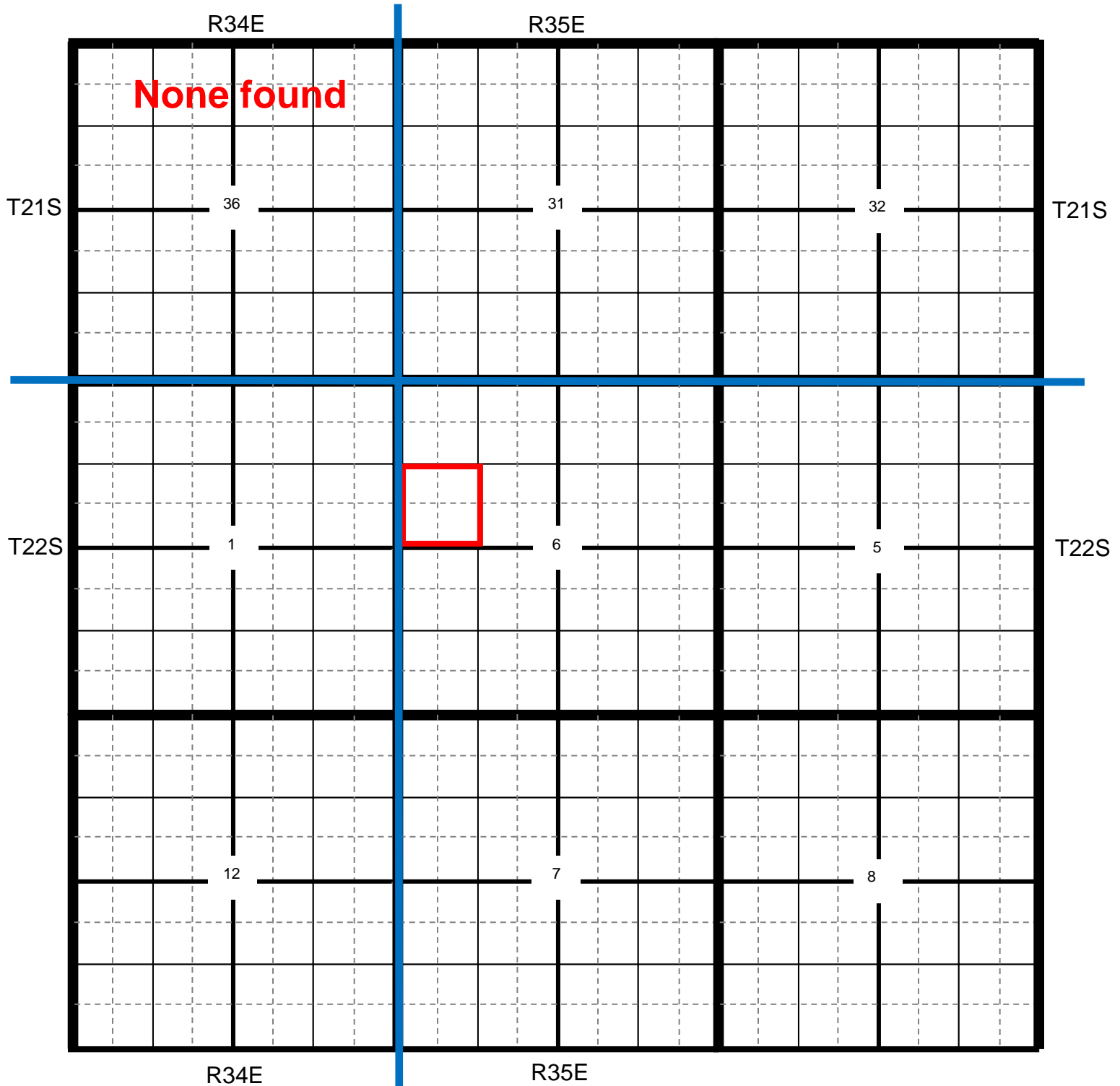


## Groundwater Plot

## COG New Mexico DW State #002

County  
LeaUnit Letter  
ESection  
6Township  
22SRange  
35E

Trend Map &lt;50'



\* Location

● OCD

● USGS

● SEO

● All Databases



## Section Quarters

## COG New Mexico DW State #002

|               |                    |                |                 |              |
|---------------|--------------------|----------------|-----------------|--------------|
| <b>County</b> | <b>Unit Letter</b> | <b>Section</b> | <b>Township</b> | <b>Range</b> |
| Lea           | E                  | 6              | 22S             | 35E          |

Trend Map &lt;50'

1

2

|               |               |               |               |
|---------------|---------------|---------------|---------------|
| NW/NW         | 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 |

47'

3

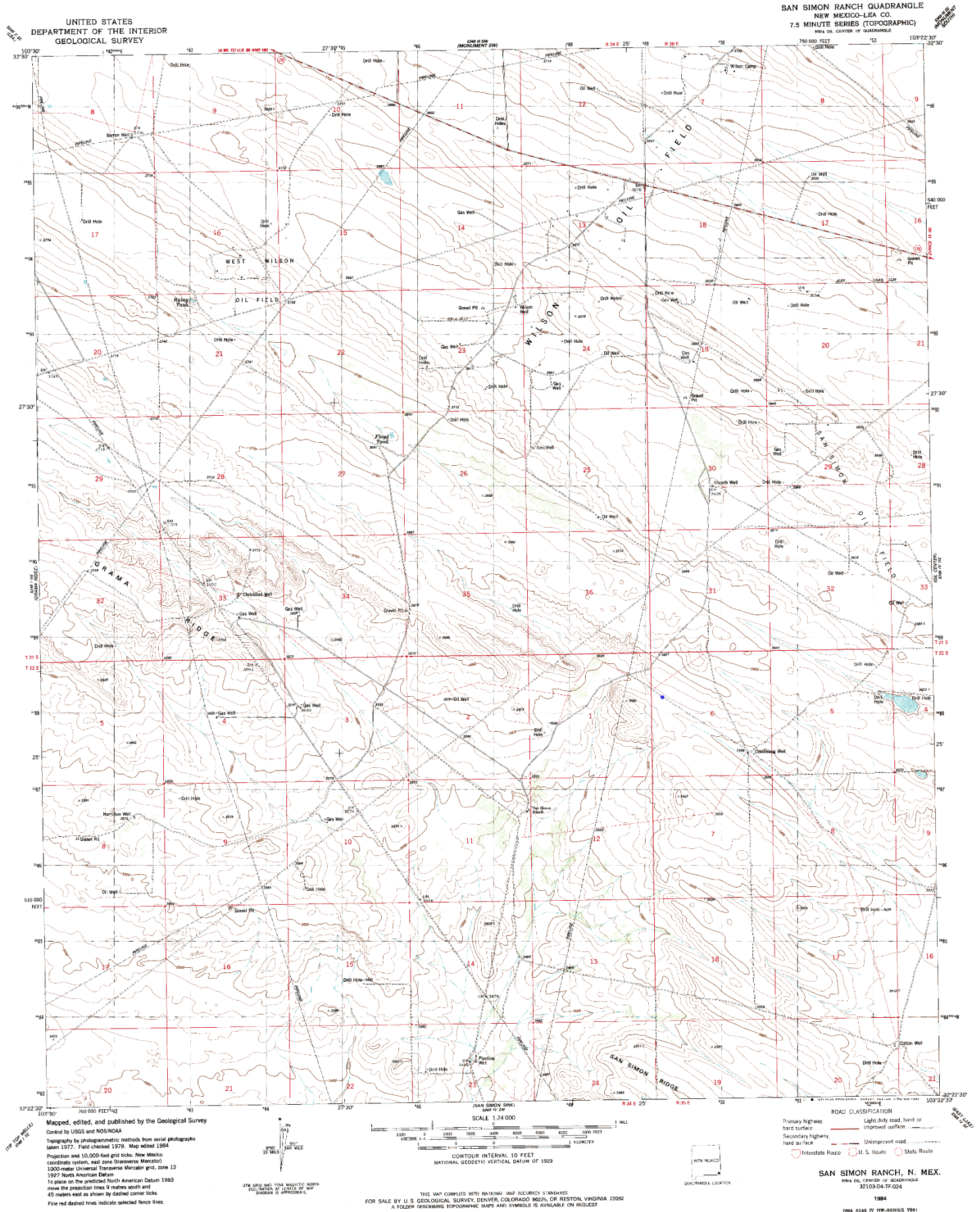
4

✱ Location   
 ● OCD   
 ● USGS   
 ● SEO   
 ● All Databases



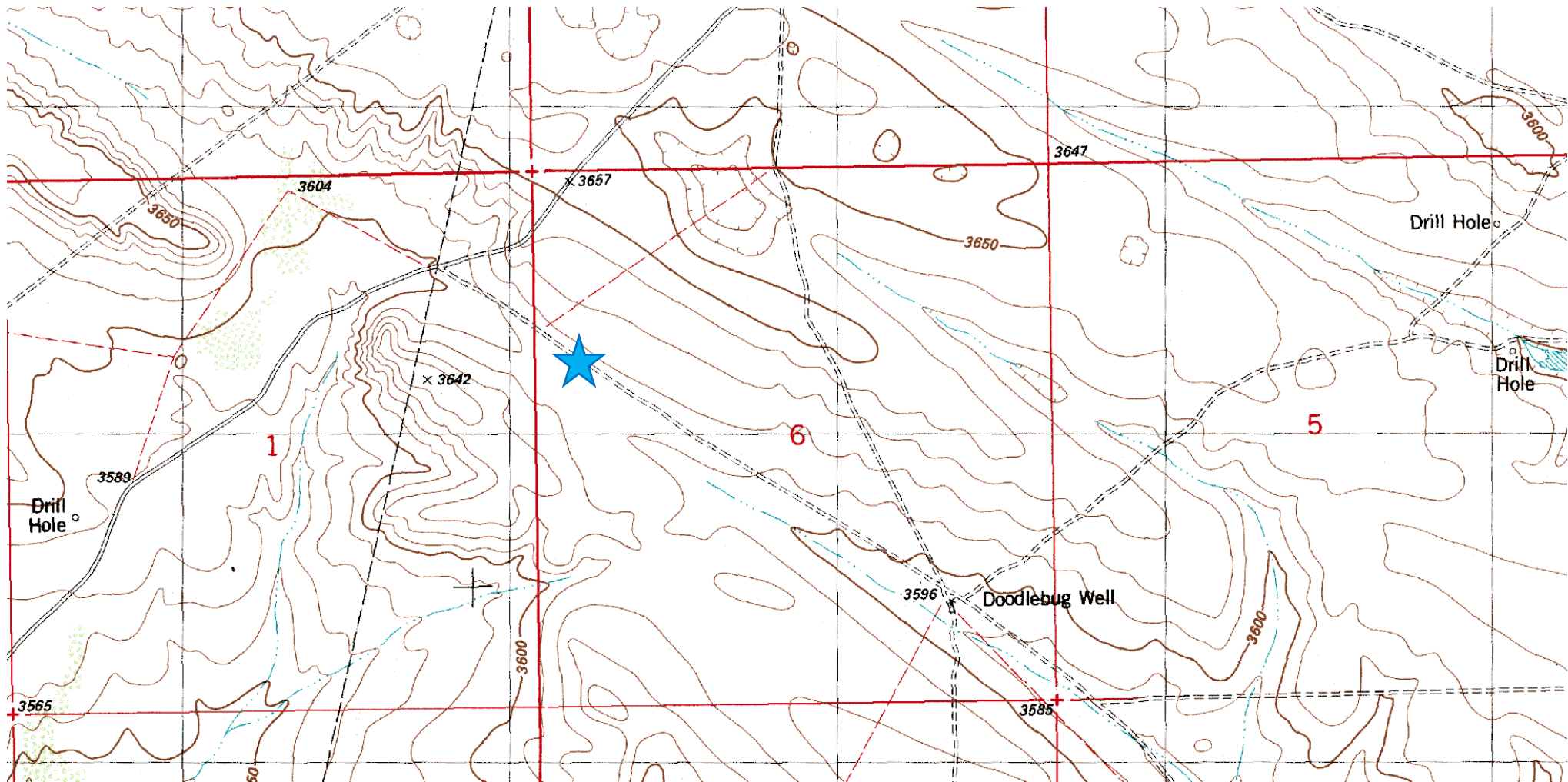
COG

## New Mexico DW State #002



COG

New Mexico DW State #002





**Laboratory Analytical Results Summary  
NM DW State #002**

|               |            | Sample | SP1 @<br>SURFACE | SP1 @ 1' | SP1 @ 6' | SP1 @ 11' |
|---------------|------------|--------|------------------|----------|----------|-----------|
| Analyte       | Method     | Date   | 2/8/17           | 2/8/17   | 4/26/17  | 4/26/17   |
|               |            |        | mg/Kg            | mg/Kg    | mg/Kg    | mg/Kg     |
| Benzene       | BTEX 8021B |        | <0.050           | <0.050   | <0.050   | n/a       |
| Toluene       | BTEX 8021B |        | <0.050           | <0.050   | <0.050   | n/a       |
| Ethylbenzene  | BTEX 8021B |        | <0.050           | <0.050   | <0.050   | n/a       |
| Total Xylenes | BTEX 8021B |        | <0.150           | <0.150   | <0.150   | n/a       |
| Total BTEX    | BTEX 8021B |        | <0.300           | <0.300   | <0.300   | n/a       |
| Chloride      | SM4500Cl-B |        | 1170             | 80       | 144      | 112       |
| GRO           | TPH 8015M  |        | <100             | <10.0    | <10.0    | n/a       |
| DRO           | TPH 8015M  |        | 7030             | 179      | <10.0    | n/a       |

|               |            | Sample | SP2 @<br>SURFACE | SP2 @ 1' | SP2 @ 6' | SP2 @ 11' |
|---------------|------------|--------|------------------|----------|----------|-----------|
| Analyte       | Method     | Date   | 2/8/17           | 2/8/17   | 4/26/17  | 4/26/17   |
|               |            |        | mg/Kg            | mg/Kg    | mg/Kg    | mg/Kg     |
| Benzene       | BTEX 8021B |        | <0.050           | <0.050   | <0.050   | n/a       |
| Toluene       | BTEX 8021B |        | <0.050           | <0.050   | <0.050   | n/a       |
| Ethylbenzene  | BTEX 8021B |        | <0.050           | <0.050   | <0.050   | n/a       |
| Total Xylenes | BTEX 8021B |        | <0.150           | <0.150   | <0.150   | n/a       |
| Total BTEX    | BTEX 8021B |        | <0.300           | <0.300   | <0.300   | n/a       |
| Chloride      | SM4500Cl-B |        | 160              | 144      | 160      | 128       |
| GRO           | TPH 8015M  |        | <10.0            | <10.0    | <10.0    | n/a       |
| DRO           | TPH 8015M  |        | 121              | <10.0    | <10.0    | n/a       |

|               |            | Sample | SP3 @<br>SURFACE | SP3 @ 1' | SP3 @ 6' | SP3 @ 11' |
|---------------|------------|--------|------------------|----------|----------|-----------|
| Analyte       | Method     | Date   | 2/8/17           | 2/8/17   | 4/26/17  | 4/26/17   |
|               |            |        | mg/Kg            | mg/Kg    | mg/Kg    | mg/Kg     |
| Benzene       | BTEX 8021B |        | <0.050           | <0.050   | <0.050   | n/a       |
| Toluene       | BTEX 8021B |        | <0.050           | <0.050   | <0.050   | n/a       |
| Ethylbenzene  | BTEX 8021B |        | <0.050           | <0.050   | <0.050   | n/a       |
| Total Xylenes | BTEX 8021B |        | 0.816            | <0.150   | <0.150   | n/a       |
| Total BTEX    | BTEX 8021B |        | 0.816            | <0.300   | <0.300   | n/a       |
| Chloride      | SM4500Cl-B |        | 1010             | 32       | 128      | 144       |
| GRO           | TPH 8015M  |        | <100             | <10.0    | <10.0    | n/a       |
| DRO           | TPH 8015M  |        | 3480             | 22       | <10.0    | n/a       |

|               |            | Sample | SP4 @ 1' | SP4 @ 6' | SP4 @ 11' |
|---------------|------------|--------|----------|----------|-----------|
| Analyte       | Method     | Date   | 4/26/17  | 4/26/17  | 4/26/17   |
|               |            |        | mg/Kg    | mg/Kg    | mg/Kg     |
| Benzene       | BTEX 8021B |        | <0.050   | <0.050   | n/a       |
| Toluene       | BTEX 8021B |        | <0.050   | <0.050   | n/a       |
| Ethylbenzene  | BTEX 8021B |        | <0.050   | <0.050   | n/a       |
| Total Xylenes | BTEX 8021B |        | <0.150   | <0.150   | n/a       |
| Total BTEX    | BTEX 8021B |        | <0.300   | <0.300   | n/a       |
| Chloride      | SM4500Cl-B |        | 144      | 160      | 144       |
| GRO           | TPH 8015M  |        | <10.0    | <10.0    | n/a       |
| DRO           | TPH 8015M  |        | <10.0    | <10.0    | n/a       |

|               |            | Sample | SP5 @ 1' | SP5 @ 6' | SP5 @ 11' |
|---------------|------------|--------|----------|----------|-----------|
| Analyte       | Method     | Date   | 4/26/17  | 4/26/17  | 4/26/17   |
|               |            |        | mg/Kg    | mg/Kg    | mg/Kg     |
| Benzene       | BTEX 8021B |        | <0.050   | <0.050   | n/a       |
| Toluene       | BTEX 8021B |        | <0.050   | <0.050   | n/a       |
| Ethylbenzene  | BTEX 8021B |        | <0.050   | <0.050   | n/a       |
| Total Xylenes | BTEX 8021B |        | <0.150   | <0.150   | n/a       |
| Total BTEX    | BTEX 8021B |        | <0.300   | <0.300   | n/a       |
| Chloride      | SM4500Cl-B |        | 128      | 128      | 128       |
| GRO           | TPH 8015M  |        | <10.0    | <10.0    | n/a       |
| DRO           | TPH 8015M  |        | <10.0    | <10.0    | n/a       |

|               |            | Sample | EAST @<br>SURFACE |
|---------------|------------|--------|-------------------|
| Analyte       | Method     | Date   | 2/8/17            |
|               |            |        | mg/Kg             |
| Benzene       | BTEX 8021B |        | <0.050            |
| Toluene       | BTEX 8021B |        | <0.050            |
| Ethylbenzene  | BTEX 8021B |        | <0.050            |
| Total Xylenes | BTEX 8021B |        | <0.150            |
| Total BTEX    | BTEX 8021B |        | <0.300            |
| Chloride      | SM4500Cl-B |        | 32                |
| GRO           | TPH 8015M  |        | <10.0             |
| DRO           | TPH 8015M  |        | <10.0             |

|               |            | Sample | SOUTH @<br>SURFACE |
|---------------|------------|--------|--------------------|
| Analyte       | Method     | Date   | 2/8/17             |
|               |            |        | mg/Kg              |
| Benzene       | BTEX 8021B |        | <0.050             |
| Toluene       | BTEX 8021B |        | <0.050             |
| Ethylbenzene  | BTEX 8021B |        | <0.050             |
| Total Xylenes | BTEX 8021B |        | <0.150             |
| Total BTEX    | BTEX 8021B |        | <0.300             |
| Chloride      | SM4500Cl-B |        | 32                 |
| GRO           | TPH 8015M  |        | <10.0              |
| DRO           | TPH 8015M  |        | 20.7               |

|               |            | Sample | NORTH @<br>SURFACE |
|---------------|------------|--------|--------------------|
| Analyte       | Method     | Date   | 2/8/17             |
|               |            |        | mg/Kg              |
| Benzene       | BTEX 8021B |        | <0.050             |
| Toluene       | BTEX 8021B |        | <0.050             |
| Ethylbenzene  | BTEX 8021B |        | <0.050             |
| Total Xylenes | BTEX 8021B |        | <0.150             |
| Total BTEX    | BTEX 8021B |        | <0.300             |
| Chloride      | SM4500Cl-B |        | 144                |
| GRO           | TPH 8015M  |        | <10.0              |
| DRO           | TPH 8015M  |        | <10.0              |

|               |            | Sample | WEST @<br>SURFACE |
|---------------|------------|--------|-------------------|
| Analyte       | Method     | Date   | 2/8/17            |
|               |            |        | mg/Kg             |
| Benzene       | BTEX 8021B |        | <0.050            |
| Toluene       | BTEX 8021B |        | <0.050            |
| Ethylbenzene  | BTEX 8021B |        | <0.050            |
| Total Xylenes | BTEX 8021B |        | <0.150            |
| Total BTEX    | BTEX 8021B |        | <0.300            |
| Chloride      | SM4500Cl-B |        | 32                |
| GRO           | TPH 8015M  |        | <10.0             |
| DRO           | TPH 8015M  |        | <10.0             |

**Laboratory Analytical Results Summary  
NM DW State #002**

|                      |            | Sample | SIDEWALL<br>1 | SIDEWALL<br>2 | SIDEWALL<br>3 | SIDEWALL<br>4 |
|----------------------|------------|--------|---------------|---------------|---------------|---------------|
| Analyte              | Method     | Date   | 7/27/17       | 7/27/17       | 7/27/17       | 7/27/17       |
|                      |            |        | mg/Kg         | mg/Kg         | mg/Kg         | mg/Kg         |
| <b>Benzene</b>       | BTEX 8021B |        | <0.050        | <0.050        | <0.050        | <0.050        |
| <b>Toluene</b>       | BTEX 8021B |        | <0.050        | <0.050        | <0.050        | <0.050        |
| <b>Ethylbenzene</b>  | BTEX 8021B |        | <0.050        | <0.050        | <0.050        | <0.050        |
| <b>Total Xylenes</b> | BTEX 8021B |        | <0.150        | <0.150        | <0.150        | <0.150        |
| <b>Total BTEX</b>    | BTEX 8021B |        | <0.300        | <0.300        | <0.300        | <0.300        |
| <b>Chloride</b>      | SM4500Cl-B |        | <b>64</b>     | <b>48</b>     | <b>32</b>     | <b>64</b>     |
| <b>GRO</b>           | TPH 8015M  |        | <10.0         | <10.0         | <10.0         | <10.0         |
| <b>DRO</b>           | TPH 8015M  |        | <10.0         | <10.0         | <10.0         | <10.0         |

|                      |            | Sample | BOTTOM 1  | BOTTOM 2    |
|----------------------|------------|--------|-----------|-------------|
| Analyte              | Method     | Date   | 7/27/17   | 7/27/17     |
|                      |            |        | mg/Kg     | mg/Kg       |
| <b>Benzene</b>       | BTEX 8021B |        | <0.050    | <0.050      |
| <b>Toluene</b>       | BTEX 8021B |        | <0.050    | <0.050      |
| <b>Ethylbenzene</b>  | BTEX 8021B |        | <0.050    | <0.050      |
| <b>Total Xylenes</b> | BTEX 8021B |        | <0.150    | <0.150      |
| <b>Total BTEX</b>    | BTEX 8021B |        | <0.300    | <0.300      |
| <b>Chloride</b>      | SM4500Cl-B |        | <b>48</b> | <b>48</b>   |
| <b>GRO</b>           | TPH 8015M  |        | <10.0     | <10.0       |
| <b>DRO</b>           | TPH 8015M  |        | <10.0     | <b>13.4</b> |



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February 22, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: NM DW STATE #02

Enclosed are the results of analyses for samples received by the laboratory on 02/15/17 10:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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**Analytical Results For:**

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

|                   |                 |                     |               |
|-------------------|-----------------|---------------------|---------------|
| Received:         | 02/15/2017      | Sampling Date:      | 02/08/2017    |
| Reported:         | 02/22/2017      | Sampling Type:      | Soil          |
| Project Name:     | NM DW STATE #02 | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN      | Sample Received By: | Jodi Henson   |
| Project Location: | COG             |                     |               |

**Sample ID: SP 1 @ SURFACE (H700384-01)**

| 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           | 02/17/2017 | ND              | 1.94 | 96.9       | 2.00          | 1.83 |           |
| Toluene*       | <0.050 | 0.050           | 02/17/2017 | ND              | 1.82 | 91.0       | 2.00          | 2.29 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 02/17/2017 | ND              | 1.83 | 91.4       | 2.00          | 2.10 |           |
| Total Xylenes* | <0.150 | 0.150           | 02/17/2017 | ND              | 5.21 | 86.9       | 6.00          | 2.30 |           |
| Total BTX      | <0.300 | 0.300           | 02/17/2017 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 1170   | 16.0            | 02/17/2017 | ND              | 448 | 112        | 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   | <100   | 100             | 02/16/2017 | ND              | 193 | 96.5       | 200           | 7.02 |           |
| DRO >C10-C28 | 7030   | 100             | 02/16/2017 | ND              | 203 | 102        | 200           | 6.69 |           |

Surrogate: 1-Chlorooctane 89.5 % 35-147

Surrogate: 1-Chlorooctadecane 159 % 28-171

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 02/15/2017  
 Reported: 02/22/2017  
 Project Name: NM DW STATE #02  
 Project Number: NONE GIVEN  
 Project Location: COG

Sampling Date: 02/08/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 1' (H700384-02)**

| 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           | 02/17/2017 | ND              | 1.94 | 96.9       | 2.00          | 1.83 |           |  |
| Toluene*       | <0.050 | 0.050           | 02/17/2017 | ND              | 1.82 | 91.0       | 2.00          | 2.29 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 02/17/2017 | ND              | 1.83 | 91.4       | 2.00          | 2.10 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 02/17/2017 | ND              | 5.21 | 86.9       | 6.00          | 2.30 |           |  |
| Total BTEx     | <0.300 | 0.300           | 02/17/2017 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 73.6-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 80.0   | 16.0            | 02/17/2017 | ND              | 448 | 112        | 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            | 02/16/2017 | ND              | 193 | 96.5       | 200           | 7.02 |           |
| DRO >C10-C28 | 179    | 10.0            | 02/16/2017 | ND              | 203 | 102        | 200           | 6.69 |           |

Surrogate: 1-Chlorooctane 89.6 % 35-147

Surrogate: 1-Chlorooctadecane 96.5 % 28-171

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 02/15/2017  
 Reported: 02/22/2017  
 Project Name: NM DW STATE #02  
 Project Number: NONE GIVEN  
 Project Location: COG

Sampling Date: 02/08/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ SURFACE (H700384-03)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 02/17/2017 | ND              | 1.94 | 96.9       | 2.00          | 1.83 |           |  |
| Toluene*       | <0.050 | 0.050           | 02/17/2017 | ND              | 1.82 | 91.0       | 2.00          | 2.29 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 02/17/2017 | ND              | 1.83 | 91.4       | 2.00          | 2.10 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 02/17/2017 | ND              | 5.21 | 86.9       | 6.00          | 2.30 |           |  |
| Total BTEx     | <0.300 | 0.300           | 02/17/2017 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 73.6-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 160    | 16.0            | 02/17/2017 | ND              | 448 | 112        | 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            | 02/16/2017 | ND              | 193 | 96.5       | 200           | 7.02 |           |
| DRO >C10-C28 | 121    | 10.0            | 02/16/2017 | ND              | 203 | 102        | 200           | 6.69 |           |

Surrogate: 1-Chlorooctane 83.9 % 35-147

Surrogate: 1-Chlorooctadecane 92.0 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 02/15/2017  
 Reported: 02/22/2017  
 Project Name: NM DW STATE #02  
 Project Number: NONE GIVEN  
 Project Location: COG

Sampling Date: 02/08/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 1' (H700384-04)**

| 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           | 02/17/2017 | ND              | 1.94 | 96.9       | 2.00          | 1.83 |           |  |
| Toluene*       | <0.050 | 0.050           | 02/17/2017 | ND              | 1.82 | 91.0       | 2.00          | 2.29 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 02/17/2017 | ND              | 1.83 | 91.4       | 2.00          | 2.10 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 02/17/2017 | ND              | 5.21 | 86.9       | 6.00          | 2.30 |           |  |
| Total BTEx     | <0.300 | 0.300           | 02/17/2017 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 73.6-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 144    | 16.0            | 02/17/2017 | ND              | 448 | 112        | 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            | 02/16/2017 | ND              | 193 | 96.5       | 200           | 7.02 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 02/16/2017 | ND              | 203 | 102        | 200           | 6.69 |           |

Surrogate: 1-Chlorooctane 78.4 % 35-147

Surrogate: 1-Chlorooctadecane 84.0 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 02/15/2017  
 Reported: 02/22/2017  
 Project Name: NM DW STATE #02  
 Project Number: NONE GIVEN  
 Project Location: COG

Sampling Date: 02/08/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ SURFACE (H700384-05)**

| 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           | 02/17/2017 | ND              | 1.94 | 96.9       | 2.00          | 1.83 |           |  |
| Toluene*       | <0.050 | 0.050           | 02/17/2017 | ND              | 1.82 | 91.0       | 2.00          | 2.29 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 02/17/2017 | ND              | 1.83 | 91.4       | 2.00          | 2.10 |           |  |
| Total Xylenes* | 0.816  | 0.150           | 02/17/2017 | ND              | 5.21 | 86.9       | 6.00          | 2.30 |           |  |
| Total BTX      | 0.816  | 0.300           | 02/17/2017 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 137 % 73.6-140

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 1010   | 16.0            | 02/17/2017 | ND              | 448 | 112        | 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   | <100   | 100             | 02/16/2017 | ND              | 193 | 96.5       | 200           | 7.02 |           |
| DRO >C10-C28 | 3480   | 100             | 02/16/2017 | ND              | 203 | 102        | 200           | 6.69 |           |

Surrogate: 1-Chlorooctane 89.4 % 35-147

Surrogate: 1-Chlorooctadecane 126 % 28-171

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 02/15/2017  
 Reported: 02/22/2017  
 Project Name: NM DW STATE #02  
 Project Number: NONE GIVEN  
 Project Location: COG

Sampling Date: 02/08/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 1' (H700384-06)**

| 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           | 02/17/2017 | ND              | 1.94 | 96.9       | 2.00          | 1.83 |           |
| Toluene*       | <0.050 | 0.050           | 02/17/2017 | ND              | 1.82 | 91.0       | 2.00          | 2.29 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 02/17/2017 | ND              | 1.83 | 91.4       | 2.00          | 2.10 |           |
| Total Xylenes* | <0.150 | 0.150           | 02/17/2017 | ND              | 5.21 | 86.9       | 6.00          | 2.30 |           |
| Total BTEx     | <0.300 | 0.300           | 02/17/2017 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 73.6-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 32.0   | 16.0            | 02/17/2017 | ND              | 448 | 112        | 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            | 02/16/2017 | ND              | 193 | 96.5       | 200           | 7.02 |           |
| DRO >C10-C28 | 22.0   | 10.0            | 02/16/2017 | ND              | 203 | 102        | 200           | 6.69 |           |

Surrogate: 1-Chlorooctane 78.7 % 35-147

Surrogate: 1-Chlorooctadecane 88.6 % 28-171

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 02/15/2017  
 Reported: 02/22/2017  
 Project Name: NM DW STATE #02  
 Project Number: NONE GIVEN  
 Project Location: COG

Sampling Date: 02/08/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: NORTH @ SURFACE (H700384-07)**

| 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           | 02/17/2017 | ND              | 1.94 | 96.9       | 2.00          | 1.83 |           |
| Toluene*       | <0.050 | 0.050           | 02/17/2017 | ND              | 1.82 | 91.0       | 2.00          | 2.29 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 02/17/2017 | ND              | 1.83 | 91.4       | 2.00          | 2.10 |           |
| Total Xylenes* | <0.150 | 0.150           | 02/17/2017 | ND              | 5.21 | 86.9       | 6.00          | 2.30 |           |
| Total BTEx     | <0.300 | 0.300           | 02/17/2017 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.6-140

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 144    | 16.0            | 02/17/2017 | ND              | 448 | 112        | 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            | 02/16/2017 | ND              | 193 | 96.5       | 200           | 7.02 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 02/16/2017 | ND              | 203 | 102        | 200           | 6.69 |           |

Surrogate: 1-Chlorooctane 80.4 % 35-147

Surrogate: 1-Chlorooctadecane 85.4 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 02/15/2017  
 Reported: 02/22/2017  
 Project Name: NM DW STATE #02  
 Project Number: NONE GIVEN  
 Project Location: COG

Sampling Date: 02/08/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: EAST @ SURFACE (H700384-08)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 02/17/2017 | ND              | 1.94 | 96.9       | 2.00          | 1.83 |           |
| Toluene*       | <0.050 | 0.050           | 02/17/2017 | ND              | 1.82 | 91.0       | 2.00          | 2.29 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 02/17/2017 | ND              | 1.83 | 91.4       | 2.00          | 2.10 |           |
| Total Xylenes* | <0.150 | 0.150           | 02/17/2017 | ND              | 5.21 | 86.9       | 6.00          | 2.30 |           |
| Total BTEx     | <0.300 | 0.300           | 02/17/2017 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 73.6-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 32.0   | 16.0            | 02/17/2017 | ND              | 448 | 112        | 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            | 02/16/2017 | ND              | 193 | 96.5       | 200           | 7.02 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 02/16/2017 | ND              | 203 | 102        | 200           | 6.69 |           |

Surrogate: 1-Chlorooctane 67.8 % 35-147

Surrogate: 1-Chlorooctadecane 77.8 % 28-171

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 02/15/2017  
 Reported: 02/22/2017  
 Project Name: NM DW STATE #02  
 Project Number: NONE GIVEN  
 Project Location: COG

Sampling Date: 02/08/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SOUTH @ SURFACE (H700384-09)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 02/17/2017 | ND              | 1.94 | 96.9       | 2.00          | 1.83 |           |
| Toluene*       | <0.050 | 0.050           | 02/17/2017 | ND              | 1.82 | 91.0       | 2.00          | 2.29 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 02/17/2017 | ND              | 1.83 | 91.4       | 2.00          | 2.10 |           |
| Total Xylenes* | <0.150 | 0.150           | 02/17/2017 | ND              | 5.21 | 86.9       | 6.00          | 2.30 |           |
| Total BTEx     | <0.300 | 0.300           | 02/17/2017 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 73.6-140

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 32.0   | 16.0            | 02/17/2017 | ND              | 448 | 112        | 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            | 02/16/2017 | ND              | 193 | 96.5       | 200           | 7.02 |           |
| DRO >C10-C28 | 20.7   | 10.0            | 02/16/2017 | ND              | 203 | 102        | 200           | 6.69 |           |

Surrogate: 1-Chlorooctane 76.2 % 35-147

Surrogate: 1-Chlorooctadecane 86.8 % 28-171

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received: 02/15/2017  
 Reported: 02/22/2017  
 Project Name: NM DW STATE #02  
 Project Number: NONE GIVEN  
 Project Location: COG

Sampling Date: 02/08/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: WEST @ SURFACE (H700384-10)**

| 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           | 02/17/2017 | ND              | 1.94 | 96.9       | 2.00          | 0.421 |           |  |
| Toluene*       | <0.050 | 0.050           | 02/17/2017 | ND              | 1.81 | 90.4       | 2.00          | 0.542 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 02/17/2017 | ND              | 1.81 | 90.7       | 2.00          | 1.02  |           |  |
| Total Xylenes* | <0.150 | 0.150           | 02/17/2017 | ND              | 5.19 | 86.4       | 6.00          | 1.12  |           |  |
| Total BTEx     | <0.300 | 0.300           | 02/17/2017 | ND              |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 73.6-140

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 32.0   | 16.0            | 02/17/2017 | ND              | 416 | 104        | 400           | 3.77 |           |

| 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            | 02/16/2017 | ND              | 193 | 96.5       | 200           | 7.02 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 02/16/2017 | ND              | 203 | 102        | 200           | 6.69 |           |

Surrogate: 1-Chlorooctane 80.6 % 35-147

Surrogate: 1-Chlorooctadecane 90.5 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

|       |  |
|-------|--|
| QM-07 | The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.                               |
| 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<br>Samples reported on an as received basis (wet) unless otherwise noted on report |

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager



**ARDINAL LABORATORIES**

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 2

|   |                    |                          |  |                         |  |               |  |                   |  |                   |  |                |  |             |  |             |  |            |  |             |  |            |  |
|---|--------------------|--------------------------|--|-------------------------|--|---------------|--|-------------------|--|-------------------|--|----------------|--|-------------|--|-------------|--|------------|--|-------------|--|------------|--|
| <b>Company Name:</b> BBC International, Inc.            |                    | <b>BILL TO</b>           |  | <b>ANALYSIS REQUEST</b> |  |               |  |                   |  |                   |  |                |  |             |  |             |  |            |  |             |  |            |  |
| <b>Project Manager:</b> Cliff Brunson                   |                    | <b>P.O. #:</b>           |  |                         |  |               |  |                   |  |                   |  |                |  |             |  |             |  |            |  |             |  |            |  |
| <b>Address:</b> P.O. Box 805                            |                    | <b>Company:</b>          |  |                         |  |               |  |                   |  |                   |  |                |  |             |  |             |  |            |  |             |  |            |  |
| <b>City:</b> Hobbs                                      |                    | <b>Attn:</b>             |  |                         |  |               |  |                   |  |                   |  |                |  |             |  |             |  |            |  |             |  |            |  |
| <b>State:</b> NM <b>zip:</b> 88241                      |                    | <b>Address:</b>          |  |                         |  |               |  |                   |  |                   |  |                |  |             |  |             |  |            |  |             |  |            |  |
| <b>Phone #:</b> 575-397-6388 <b>Fax #:</b> 575-397-0397 |                    | <b>City:</b>             |  |                         |  |               |  |                   |  |                   |  |                |  |             |  |             |  |            |  |             |  |            |  |
| <b>Project #:</b>                                       |                    | <b>State:</b>            |  |                         |  |               |  |                   |  |                   |  |                |  |             |  |             |  |            |  |             |  |            |  |
| <b>Project Name:</b>                                    |                    | <b>Zip:</b>              |  |                         |  |               |  |                   |  |                   |  |                |  |             |  |             |  |            |  |             |  |            |  |
| <b>Project Location:</b> NM DM STATE # 01               |                    | <b>Phone #:</b>          |  |                         |  |               |  |                   |  |                   |  |                |  |             |  |             |  |            |  |             |  |            |  |
| <b>Sampler Name:</b> ROGER HERMANDEZ                    |                    | <b>Fax #:</b>            |  |                         |  |               |  |                   |  |                   |  |                |  |             |  |             |  |            |  |             |  |            |  |
| <b>FOR LAB USE ONLY</b>                                 |                    | <b>PRESERV</b>           |  | <b>SAMPLING</b>         |  |               |  |                   |  |                   |  |                |  |             |  |             |  |            |  |             |  |            |  |
| <b>Lab I.D.</b>   | <b>Sample I.D.</b> | <b>(G)RAB OR (C)OMP.</b> |  | <b># CONTAINERS</b>     |  | <b>MATRIX</b> |  | <b>ACID/BASE:</b> |  | <b>ICE / COOL</b> |  | <b>OTHER :</b> |  | <b>DATE</b> |  | <b>TIME</b> |  | <b>TPH</b> |  | <b>BTEX</b> |  | <b>CL-</b> |  |
| H700394   | SP1 @ SURFACE      | ✓                        |  | 1                       |  | ✓             |  | ✓                 |  | ✓                 |  | ✓              |  | 2 8 17      |  | 945         |  | ✓          |  | ✓           |  | ✓          |  |
|   | SP2 @ SURFACE      | ✓                        |  | 1                       |  | ✓             |  | ✓                 |  | ✓                 |  | ✓              |  | 2 8 17      |  | 1010        |  | ✓          |  | ✓           |  | ✓          |  |
|   | SP3 @ SURFACE      | ✓                        |  | 1                       |  | ✓             |  | ✓                 |  | ✓                 |  | ✓              |  | 2 8 17      |  | 1035        |  | ✓          |  | ✓           |  | ✓          |  |
|   | SP3 @ SURFACE      | ✓                        |  | 1                       |  | ✓             |  | ✓                 |  | ✓                 |  | ✓              |  | 2 8 17      |  | 1048        |  | ✓          |  | ✓           |  | ✓          |  |
|   | SP3 @ SURFACE      | ✓                        |  | 1                       |  | ✓             |  | ✓                 |  | ✓                 |  | ✓              |  | 2 8 17      |  | 1127        |  | ✓          |  | ✓           |  | ✓          |  |
|   | SP3 @ SURFACE      | ✓                        |  | 1                       |  | ✓             |  | ✓                 |  | ✓                 |  | ✓              |  | 2 8 17      |  | 1205        |  | ✓          |  | ✓           |  | ✓          |  |
|   | SP3 @ SURFACE      | ✓                        |  | 1                       |  | ✓             |  | ✓                 |  | ✓                 |  | ✓              |  | 2 8 17      |  | 1235        |  | ✓          |  | ✓           |  | ✓          |  |
|   | SP3 @ SURFACE      | ✓                        |  | 1                       |  | ✓             |  | ✓                 |  | ✓                 |  | ✓              |  | 2 8 17      |  | 1240        |  | ✓          |  | ✓           |  | ✓          |  |
|   | SP3 @ SURFACE      | ✓                        |  | 1                       |  | ✓             |  | ✓                 |  | ✓                 |  | ✓              |  | 2 8 17      |  | 1250        |  | ✓          |  | ✓           |  | ✓          |  |
|   | SP3 @ SURFACE      | ✓                        |  | 1                       |  | ✓             |  | ✓                 |  | ✓                 |  | ✓              |  | 2 8 17      |  | 1305        |  | ✓          |  | ✓           |  | ✓          |  |

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|   |                      |                                 |   |                       |
|---|----------------------|---------------------------------|---|-----------------------|
| <b>Relinquished By:</b> Roger Hernandez | <b>Date:</b> 8/14/17 | <b>Received By:</b> [Signature] | <b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No | <b>Add'l Phone #:</b> |
| <b>Relinquished By:</b>                 | <b>Date:</b>         | <b>Received By:</b>             | <b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No   | <b>Add'l Fax #:</b>   |
| <b>Time:</b>                            | <b>Time:</b>         |                                 |   |                       |

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

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



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

---

May 15, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: NM DW STATE #002

Enclosed are the results of analyses for samples received by the laboratory on 05/05/17 10:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 05/05/2017  
 Reported: 05/15/2017  
 Project Name: NM DW STATE #002  
 Project Number: NONE GIVEN  
 Project Location: COG

Sampling Date: 04/26/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: 1 @ 6' (H701215-01)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: BF |      |            |               | I-02 |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 05/12/2017 | ND              | 2.08 | 104        | 2.00          | 1.17 |           |
| Toluene*       | <0.050 | 0.050           | 05/12/2017 | ND              | 2.10 | 105        | 2.00          | 1.84 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 05/12/2017 | ND              | 2.12 | 106        | 2.00          | 2.63 |           |
| Total Xylenes* | <0.150 | 0.150           | 05/12/2017 | ND              | 6.23 | 104        | 6.00          | 1.86 |           |
| Total BTEX     | <0.300 | 0.300           | 05/12/2017 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 126 % 72-148

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 144    | 16.0            | 05/09/2017 | ND              | 400 | 100        | 400           | 3.92 |           |

| TPH 8015M    |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 05/11/2017 | ND              | 193 | 96.6       | 200           | 2.84 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 05/11/2017 | ND              | 196 | 97.8       | 200           | 1.26 |           |

Surrogate: 1-Chlorooctane 69.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 73.5 % 34.7-157

**Sample ID: 1 @ 11' (H701215-02)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 112    | 16.0            | 05/09/2017 | ND              | 400 | 100        | 400           | 3.92 |           |

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |                  |                     |                |
|-------------------|------------------|---------------------|----------------|
| Received:         | 05/05/2017       | Sampling Date:      | 04/26/2017     |
| Reported:         | 05/15/2017       | Sampling Type:      | Soil           |
| Project Name:     | NM DW STATE #002 | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN       | Sample Received By: | Tamara Oldaker |
| Project Location: | COG              |                     |                |

**Sample ID: 2 @ 6' (H701215-03)**

| BTX 8021B      |        |                 | mg/kg      |              | Analyzed By: BF |            |               | I-02 |           |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 05/12/2017 | ND           | 2.08            | 104        | 2.00          | 1.17 |           |
| Toluene*       | <0.050 | 0.050           | 05/12/2017 | ND           | 2.10            | 105        | 2.00          | 1.84 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 05/12/2017 | ND           | 2.12            | 106        | 2.00          | 2.63 |           |
| Total Xylenes* | <0.150 | 0.150           | 05/12/2017 | ND           | 6.23            | 104        | 6.00          | 1.86 |           |
| Total BTX      | <0.300 | 0.300           | 05/12/2017 | ND           |                 |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 125 % 72-148

| Chloride, SM4500CI-B |        |                 | mg/kg      |              | Analyzed By: AC |            |               |      |           |
|----------------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 160    | 16.0            | 05/09/2017 | ND           | 400             | 100        | 400           | 3.92 |           |

| TPH 8015M    |        |                 | mg/kg      |              | Analyzed By: MS |            |               |      |           |
|--------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 05/11/2017 | ND           | 193             | 96.6       | 200           | 2.84 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 05/11/2017 | ND           | 196             | 97.8       | 200           | 1.26 |           |

Surrogate: 1-Chlorooctane 66.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 63.6 % 34.7-157

**Sample ID: 2 @ 11' (H701215-04)**

| Chloride, SM4500CI-B |        |                 | mg/kg      |              | Analyzed By: AC |            |               |      |           |
|----------------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 128    | 16.0            | 05/09/2017 | ND           | 400             | 100        | 400           | 3.92 |           |

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

|                   |                  |                     |                |
|-------------------|------------------|---------------------|----------------|
| Received:         | 05/05/2017       | Sampling Date:      | 04/26/2017     |
| Reported:         | 05/15/2017       | Sampling Type:      | Soil           |
| Project Name:     | NM DW STATE #002 | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN       | Sample Received By: | Tamara Oldaker |
| Project Location: | COG              |                     |                |

**Sample ID: 3 @ 6' (H701215-05)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: BF |      |            |               | I-02 |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 05/12/2017 | ND              | 2.08 | 104        | 2.00          | 1.17 |           |
| Toluene*       | <0.050 | 0.050           | 05/12/2017 | ND              | 2.10 | 105        | 2.00          | 1.84 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 05/12/2017 | ND              | 2.12 | 106        | 2.00          | 2.63 |           |
| Total Xylenes* | <0.150 | 0.150           | 05/12/2017 | ND              | 6.23 | 104        | 6.00          | 1.86 |           |
| Total BTEX     | <0.300 | 0.300           | 05/12/2017 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 125 % 72-148

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 128    | 16.0            | 05/09/2017 | 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            | 05/11/2017 | ND              | 193 | 96.6       | 200           | 2.84 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 05/11/2017 | ND              | 196 | 97.8       | 200           | 1.26 |           |

Surrogate: 1-Chlorooctane 71.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 71.8 % 34.7-157

**Sample ID: 3@ 11' (H701215-06)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 144    | 16.0            | 05/09/2017 | ND              | 416 | 104        | 400           | 0.00 |           |

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**Analytical Results For:**

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

|                   |                  |                     |                |
|-------------------|------------------|---------------------|----------------|
| Received:         | 05/05/2017       | Sampling Date:      | 04/26/2017     |
| Reported:         | 05/15/2017       | Sampling Type:      | Soil           |
| Project Name:     | NM DW STATE #002 | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN       | Sample Received By: | Tamara Oldaker |
| Project Location: | COG              |                     |                |

**Sample ID: 4 @ 1' (H701215-07)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: BF |      |            |               | I-02 |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 05/12/2017 | ND              | 2.08 | 104        | 2.00          | 1.17 |           |
| Toluene*       | <0.050 | 0.050           | 05/12/2017 | ND              | 2.10 | 105        | 2.00          | 1.84 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 05/12/2017 | ND              | 2.12 | 106        | 2.00          | 2.63 |           |
| Total Xylenes* | <0.150 | 0.150           | 05/12/2017 | ND              | 6.23 | 104        | 6.00          | 1.86 |           |
| Total BTX      | <0.300 | 0.300           | 05/12/2017 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 123 % 72-148

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 144    | 16.0            | 05/09/2017 | 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            | 05/11/2017 | ND              | 193 | 96.6       | 200           | 2.84 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 05/11/2017 | ND              | 196 | 97.8       | 200           | 1.26 |           |

Surrogate: 1-Chlorooctane 69.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 62.8 % 34.7-157

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**Analytical Results For:**

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

Received: 05/05/2017  
 Reported: 05/15/2017  
 Project Name: NM DW STATE #002  
 Project Number: NONE GIVEN  
 Project Location: COG

Sampling Date: 04/26/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: 4 @ 6' (H701215-08)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: BF |      |            |               | I-02 |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 05/12/2017 | ND              | 2.08 | 104        | 2.00          | 1.17 |           |
| Toluene*       | <0.050 | 0.050           | 05/12/2017 | ND              | 2.10 | 105        | 2.00          | 1.84 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 05/12/2017 | ND              | 2.12 | 106        | 2.00          | 2.63 |           |
| Total Xylenes* | <0.150 | 0.150           | 05/12/2017 | ND              | 6.23 | 104        | 6.00          | 1.86 |           |
| Total BTEX     | <0.300 | 0.300           | 05/12/2017 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 127 % 72-148

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 160    | 16.0            | 05/09/2017 | 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            | 05/11/2017 | ND              | 193 | 96.6       | 200           | 2.84 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 05/11/2017 | ND              | 196 | 97.8       | 200           | 1.26 |           |

Surrogate: 1-Chlorooctane 80.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 76.3 % 34.7-157

**Sample ID: 4 @ 11' (H701215-09)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 144    | 16.0            | 05/09/2017 | ND              | 416 | 104        | 400           | 0.00 |           |

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**Analytical Results For:**

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

Received: 05/05/2017  
 Reported: 05/15/2017  
 Project Name: NM DW STATE #002  
 Project Number: NONE GIVEN  
 Project Location: COG

Sampling Date: 04/26/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: 5 @ 1' (H701215-10)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: BF |      |            |               | I-02 |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 05/12/2017 | ND              | 2.08 | 104        | 2.00          | 1.17 |           |
| Toluene*       | <0.050 | 0.050           | 05/12/2017 | ND              | 2.10 | 105        | 2.00          | 1.84 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 05/12/2017 | ND              | 2.12 | 106        | 2.00          | 2.63 |           |
| Total Xylenes* | <0.150 | 0.150           | 05/12/2017 | ND              | 6.23 | 104        | 6.00          | 1.86 |           |
| Total BTX      | <0.300 | 0.300           | 05/12/2017 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 125 % 72-148

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 128    | 16.0            | 05/09/2017 | 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            | 05/11/2017 | ND              | 193 | 96.6       | 200           | 2.84 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 05/11/2017 | ND              | 196 | 97.8       | 200           | 1.26 |           |

Surrogate: 1-Chlorooctane 70.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 74.7 % 34.7-157

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**Analytical Results For:**

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

|                   |                  |                     |                |
|-------------------|------------------|---------------------|----------------|
| Received:         | 05/05/2017       | Sampling Date:      | 04/26/2017     |
| Reported:         | 05/15/2017       | Sampling Type:      | Soil           |
| Project Name:     | NM DW STATE #002 | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN       | Sample Received By: | Tamara Oldaker |
| Project Location: | COG              |                     |                |

**Sample ID: 5 @ 6' (H701215-11)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: BF |      |            |               | I-02 |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 05/12/2017 | ND              | 2.08 | 104        | 2.00          | 1.17 |           |
| Toluene*       | <0.050 | 0.050           | 05/12/2017 | ND              | 2.10 | 105        | 2.00          | 1.84 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 05/12/2017 | ND              | 2.12 | 106        | 2.00          | 2.63 |           |
| Total Xylenes* | <0.150 | 0.150           | 05/12/2017 | ND              | 6.23 | 104        | 6.00          | 1.86 |           |
| Total BTX      | <0.300 | 0.300           | 05/12/2017 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 127 % 72-148

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 128    | 16.0            | 05/09/2017 | 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            | 05/11/2017 | ND              | 193 | 96.6       | 200           | 2.84 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 05/11/2017 | ND              | 196 | 97.8       | 200           | 1.26 |           |

Surrogate: 1-Chlorooctane 78.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 69.3 % 34.7-157

**Sample ID: 5@ 11' (H701215-12)**

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 128    | 16.0            | 05/09/2017 | ND              | 416 | 104        | 400           | 0.00 |           |

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



---

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

---

### Notes and Definitions

|      |  |
|------|--|
| I-02 | This result was analyzed outside of the EPA recommended holding time.  |
| 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<br>Samples reported on an as received basis (wet) unless otherwise noted on report |

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

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

|  |  |                          |  |                         |  |   |  |   |  |                 |  |      |  |  |  |  |  |  |  |
|--|--|--------------------------|--|-------------------------|--|---|--|---|--|-----------------|--|------|--|--|--|--|--|--|--|
| <b>Company Name:</b> BBC International, Inc.   |  | <b>P.O. #:</b>           |  | <b>BILL TO</b>          |  |   |  |   |  |                 |  |      |  |  |  |  |  |  |  |
| <b>Project Manager:</b> Cliff Brunson  |  | <b>Company:</b> COG      |  | <b>ANALYSIS REQUEST</b> |  |   |  |   |  |                 |  |      |  |  |  |  |  |  |  |
| <b>Address:</b> P.O. Box 805   |  | <b>Attn:</b>             |  |                         |  |   |  |   |  |                 |  |      |  |  |  |  |  |  |  |
| <b>City:</b> Hobbs   |  | <b>Address:</b>          |  |                         |  |   |  |   |  |                 |  |      |  |  |  |  |  |  |  |
| <b>Phone #:</b> 575-397-6388   |  | <b>City:</b>             |  |                         |  |   |  |   |  |                 |  |      |  |  |  |  |  |  |  |
| <b>Project #:</b>  |  | <b>State:</b> NM         |  |                         |  |   |  |   |  |                 |  |      |  |  |  |  |  |  |  |
| <b>Project Name:</b> NM DW State #002  |  | <b>Zip:</b> 88241        |  |                         |  |   |  |   |  |                 |  |      |  |  |  |  |  |  |  |
| <b>Project Location:</b>   |  | <b>Phone #:</b>          |  |                         |  |   |  |   |  |                 |  |      |  |  |  |  |  |  |  |
| <b>Sampler Name:</b> Price Brunson   |  | <b>Fax #:</b>            |  |                         |  |   |  |   |  |                 |  |      |  |  |  |  |  |  |  |
| <b>FOR LAB USE ONLY</b>  |  | <b>PRESERV</b>           |  | <b>SAMPLING</b>         |  |   |  |   |  |                 |  |      |  |  |  |  |  |  |  |
| <b>Lab I.D.</b>  |  | <b>(G)RAB OR (C)OMP.</b> |  | <b># CONTAINERS</b>     |  | <b>MATRIX</b>   |  | <b>DATE</b>   |  | <b>TIME</b>     |  |      |  |  |  |  |  |  |  |
| <b>Sample I.D.</b>   |  |                          |  |                         |  |   |  |   |  |                 |  |      |  |  |  |  |  |  |  |
| H101215  |  | 6 1                      |  | 1                       |  | GROUNDWATER   |  | 4/26/17   |  | 1150            |  | TPH  |  |  |  |  |  |  |  |
| 1  |  | 6 1                      |  | 1                       |  | WASTEWATER  |  | 4/26/17   |  | 1215            |  | BTEX |  |  |  |  |  |  |  |
| 2  |  | 6 1                      |  | 1                       |  | SOIL  |  | 4/26/17   |  | 115             |  | CL   |  |  |  |  |  |  |  |
| 3  |  | 6 1                      |  | 1                       |  | OIL   |  | 4/26/17   |  | 150             |  |      |  |  |  |  |  |  |  |
| 4  |  | 6 1                      |  | 1                       |  | SLUDGE  |  | 4/26/17   |  | 230             |  |      |  |  |  |  |  |  |  |
| 5  |  | 6 1                      |  | 1                       |  | OTHER :   |  | 4/26/17   |  | 300             |  |      |  |  |  |  |  |  |  |
| 6  |  | 6 1                      |  | 1                       |  | ACID/BASE:  |  | 4/26/17   |  | 930             |  |      |  |  |  |  |  |  |  |
| 7  |  | 6 1                      |  | 1                       |  | ICE / COOL  |  | 4/26/17   |  | 950             |  |      |  |  |  |  |  |  |  |
| 8  |  | 6 1                      |  | 1                       |  | OTHER :   |  | 4/26/17   |  | 1010            |  |      |  |  |  |  |  |  |  |
| 9  |  | 6 1                      |  | 1                       |  |   |  | 4/26/17   |  | 1045            |  |      |  |  |  |  |  |  |  |
| 10   |  | 6 1                      |  | 1                       |  |   |  | 4/26/17   |  | 1045            |  |      |  |  |  |  |  |  |  |
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| <b>Relinquished By:</b>  |  | <b>Date:</b> 4/24/17     |  | <b>Received By:</b>     |  | <b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No   |  | <b>Add'l Phone #:</b>   |  | <b>REMARKS:</b> |  |      |  |  |  |  |  |  |  |
| <b>Relinquished By:</b>  |  | <b>Time:</b> 4:20pm      |  | <b>Received By:</b>     |  | <b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No     |  | <b>Add'l Fax #:</b>   |  |                 |  |      |  |  |  |  |  |  |  |
| <b>Relinquished By:</b>  |  | <b>Date:</b> 5-5-17      |  | <b>Received By:</b>     |  | <b>Sample Condition</b>   |  | <b>CHECKED BY:</b>  |  |                 |  |      |  |  |  |  |  |  |  |
| <b>Relinquished By:</b>  |  | <b>Time:</b> 10:40       |  | <b>Received By:</b>     |  | <b>Cool</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |  | <b>Intact</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |  |                 |  |      |  |  |  |  |  |  |  |
| <b>Delivered By: (Circle One)</b>  |  | <b>Time:</b> 12:40       |  | <b>Received By:</b>     |  | <b>Sample Condition</b>   |  | <b>CHECKED BY:</b>  |  |                 |  |      |  |  |  |  |  |  |  |
| <b>Sampler - UPS - Bus - Other:</b>  |  | <b>Time:</b> 12:40       |  | <b>Received By:</b>     |  | <b>Cool</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |  | <b>Intact</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |  |                 |  |      |  |  |  |  |  |  |  |
| <b>Sampler - UPS - Bus - Other:</b>  |  | <b>Time:</b> 12:40       |  | <b>Received By:</b>     |  | <b>Cool</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |  | <b>Intact</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |  |                 |  |      |  |  |  |  |  |  |  |

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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

(505) 393-2326 FAX (505) 393-2410

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

State: NM Zip: 88241

Phone #: 575-397-6388

Fax #: 575-397-0397

Project #:

Project Owner: CBLG

Project Name: NM OW State #002

Project Location:

Sampler Name:

Price Brunson

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

MATRIX

PRESERV

SAMPLING

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Relinquished By:

Date:

Received By:

Time:

Relinquished By:

Date:

Received By:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

-12.88

Cool Intact  
☐ Yes ☒ No  
☐ Yes ☒ No

CHECKED BY:  
(Initials)  
7-2-#75

REMARKS:

Phone Result:

☐ Yes ☒ No

☐ Yes ☒ No

Add'l Phone #:

Add'l Fax #:

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---

July 31, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: NM DW STATE #002

Enclosed are the results of analyses for samples received by the laboratory on 07/28/17 8:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 07/28/2017  
 Reported: 07/31/2017  
 Project Name: NM DW STATE #002  
 Project Number: NONE GIVEN  
 Project Location: COG

Sampling Date: 07/27/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SIDE WALL 1 (H701974-01)**

| 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           | 07/31/2017 | ND              | 2.06 | 103        | 2.00          | 0.728 |           |
| Toluene*       | <0.050 | 0.050           | 07/31/2017 | ND              | 1.90 | 95.2       | 2.00          | 2.14  |           |
| Ethylbenzene*  | <0.050 | 0.050           | 07/31/2017 | ND              | 1.99 | 99.6       | 2.00          | 0.790 |           |
| Total Xylenes* | <0.150 | 0.150           | 07/31/2017 | ND              | 6.01 | 100        | 6.00          | 1.04  |           |
| Total BTX      | <0.300 | 0.300           | 07/31/2017 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 64.0   | 16.0            | 07/28/2017 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M    |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 07/28/2017 | ND              | 198 | 99.1       | 200           | 10.1 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 07/28/2017 | ND              | 211 | 105        | 200           | 8.90 |           |

Surrogate: 1-Chlorooctane 91.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 95.8 % 34.7-157

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 07/28/2017  
 Reported: 07/31/2017  
 Project Name: NM DW STATE #002  
 Project Number: NONE GIVEN  
 Project Location: COG

Sampling Date: 07/27/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SIDE WALL 2 (H701974-02)**

| 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           | 07/31/2017 | ND              | 2.06 | 103        | 2.00          | 0.728 |           |
| Toluene*       | <0.050 | 0.050           | 07/31/2017 | ND              | 1.90 | 95.2       | 2.00          | 2.14  |           |
| Ethylbenzene*  | <0.050 | 0.050           | 07/31/2017 | ND              | 1.99 | 99.6       | 2.00          | 0.790 |           |
| Total Xylenes* | <0.150 | 0.150           | 07/31/2017 | ND              | 6.01 | 100        | 6.00          | 1.04  |           |
| Total BTX      | <0.300 | 0.300           | 07/31/2017 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 72-148

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 48.0   | 16.0            | 07/28/2017 | ND              | 416 | 104        | 400           | 3.77 |           |

| TPH 8015M    |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 07/28/2017 | ND              | 198 | 99.1       | 200           | 10.1 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 07/28/2017 | ND              | 211 | 105        | 200           | 8.90 |           |

Surrogate: 1-Chlorooctane 86.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 87.6 % 34.7-157

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 07/28/2017  
 Reported: 07/31/2017  
 Project Name: NM DW STATE #002  
 Project Number: NONE GIVEN  
 Project Location: COG

Sampling Date: 07/27/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SIDE WALL 3 (H701974-03)**

| 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           | 07/31/2017 | ND              | 2.06 | 103        | 2.00          | 0.728 |           |
| Toluene*       | <0.050 | 0.050           | 07/31/2017 | ND              | 1.90 | 95.2       | 2.00          | 2.14  |           |
| Ethylbenzene*  | <0.050 | 0.050           | 07/31/2017 | ND              | 1.99 | 99.6       | 2.00          | 0.790 |           |
| Total Xylenes* | <0.150 | 0.150           | 07/31/2017 | ND              | 6.01 | 100        | 6.00          | 1.04  |           |
| Total BTX      | <0.300 | 0.300           | 07/31/2017 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 32.0   | 16.0            | 07/28/2017 | ND              | 416 | 104        | 400           | 3.77 |           |

| TPH 8015M    |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 07/28/2017 | ND              | 198 | 99.1       | 200           | 10.1 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 07/28/2017 | ND              | 211 | 105        | 200           | 8.90 |           |

Surrogate: 1-Chlorooctane 78.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 82.0 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 07/28/2017  
 Reported: 07/31/2017  
 Project Name: NM DW STATE #002  
 Project Number: NONE GIVEN  
 Project Location: COG

Sampling Date: 07/27/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SIDE WALL 4 (H701974-04)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: MS |      |            |               |       |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 07/31/2017 | ND              | 2.06 | 103        | 2.00          | 0.728 |           |  |
| Toluene*       | <0.050 | 0.050           | 07/31/2017 | ND              | 1.90 | 95.2       | 2.00          | 2.14  |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 07/31/2017 | ND              | 1.99 | 99.6       | 2.00          | 0.790 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 07/31/2017 | ND              | 6.01 | 100        | 6.00          | 1.04  |           |  |
| Total BTEx     | <0.300 | 0.300           | 07/31/2017 | ND              |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 64.0   | 16.0            | 07/28/2017 | ND              | 416 | 104        | 400           | 3.77 |           |  |

| TPH 8015M    |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 07/28/2017 | ND              | 198 | 99.1       | 200           | 10.1 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 07/28/2017 | ND              | 211 | 105        | 200           | 8.90 |           |

Surrogate: 1-Chlorooctane 96.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 99.3 % 34.7-157

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 07/28/2017  
 Reported: 07/31/2017  
 Project Name: NM DW STATE #002  
 Project Number: NONE GIVEN  
 Project Location: COG

Sampling Date: 07/27/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BOTTOM 1 (H701974-05)**

| 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           | 07/31/2017 | ND              | 2.06 | 103        | 2.00          | 0.728 |           |
| Toluene*       | <0.050 | 0.050           | 07/31/2017 | ND              | 1.90 | 95.2       | 2.00          | 2.14  |           |
| Ethylbenzene*  | <0.050 | 0.050           | 07/31/2017 | ND              | 1.99 | 99.6       | 2.00          | 0.790 |           |
| Total Xylenes* | <0.150 | 0.150           | 07/31/2017 | ND              | 6.01 | 100        | 6.00          | 1.04  |           |
| Total BTX      | <0.300 | 0.300           | 07/31/2017 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 48.0   | 16.0            | 07/28/2017 | ND              | 416 | 104        | 400           | 3.77 |           |

| TPH 8015M    |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 07/28/2017 | ND              | 198 | 99.1       | 200           | 10.1 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 07/28/2017 | ND              | 211 | 105        | 200           | 8.90 |           |

Surrogate: 1-Chlorooctane 99.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 106 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

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

Received: 07/28/2017  
 Reported: 07/31/2017  
 Project Name: NM DW STATE #002  
 Project Number: NONE GIVEN  
 Project Location: COG

Sampling Date: 07/27/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: BOTTOM 2 (H701974-06)**

| 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           | 07/31/2017 | ND              | 2.06 | 103        | 2.00          | 0.728 |           |  |
| Toluene*       | <0.050 | 0.050           | 07/31/2017 | ND              | 1.90 | 95.2       | 2.00          | 2.14  |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 07/31/2017 | ND              | 1.99 | 99.6       | 2.00          | 0.790 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 07/31/2017 | ND              | 6.01 | 100        | 6.00          | 1.04  |           |  |
| Total BTEx     | <0.300 | 0.300           | 07/31/2017 | ND              |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 48.0   | 16.0            | 07/28/2017 | ND              | 432 | 108        | 400           | 0.00 | QR-03     |

| TPH 8015M    |        | mg/kg           |            | Analyzed By: MS |     |            |               |      |           |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 07/28/2017 | ND              | 198 | 99.1       | 200           | 10.1 |           |
| DRO >C10-C28 | 13.4   | 10.0            | 07/28/2017 | ND              | 211 | 105        | 200           | 8.90 |           |

Surrogate: 1-Chlorooctane 87.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 93.4 % 34.7-157

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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---

### Notes and Definitions

|       |   |
|-------|---|
| QR-03 | The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.                 |
| QR-02 | The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data. |
| QM-07 | The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.  |
| 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<br>Samples reported on an as received basis (wet) unless otherwise noted on report  |

---

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

---

Celey D. Keene, Lab Director/Quality Manager





## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

**Company Name:** BBC International, Inc.

**Project Manager:** Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name:

**Project Location:**

**Sampler Name:**

FOR LAB USE ONLY

Lab I.D.

**Sample I.D.**

#701974

Silberwall 1

Side wall 2  
Side wall 3

Side wall 4

Estimado

7. Widening

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## BILL TO

ANALYSIS REQUEST

Page 9 of 9

Released to Imaging: 11/10/2022 9:11:05 AM



**From:** Yu, Olivia, EMNRD  
**To:** [Cliff Brunson](#); [Amber Groves](#)  
**Cc:** [Becky Haskell](#); [Ken Swinney](#); [Jennifer Gilkey](#); [Kathy Purvis](#)  
**Subject:** RE: COG - New Mexico DW State #002 (1RP-4549) - Delineation Workplan  
**Date:** Wednesday, June 14, 2017 12:28:20 PM  
**Attachments:** [1RP4549 approved Delineation Workplan NM DW State #002.pdf](#)

---

Dear Mr. Brunson:

NMOCD approves of the delineation and proposed remediation for 1RP-4549 with one condition: confirmatory laboratory analyses of bottom and sidewall samples at 1 ft. bgs. Please confirm. Like approval from SLO required.

Thanks,

Olivia Yu  
Environmental Specialist  
NMOCD, District I  
[Olivia.yu@state.nm.us](mailto:Olivia.yu@state.nm.us)  
575-393-6161 x113

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

---

**From:** Cliff Brunson [mailto:[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)]  
**Sent:** Monday, May 22, 2017 2:15 PM  
**To:** Yu, Olivia, EMNRD <[Olivia.Yu@state.nm.us](mailto:Olivia.Yu@state.nm.us)>; Amber Groves <[agroves@slo.state.nm.us](mailto:agroves@slo.state.nm.us)>  
**Cc:** Becky Haskell <[rhaskell@concho.com](mailto:rhaskell@concho.com)>; Ken Swinney <[kswinney@bbcinternational.com](mailto:kswinney@bbcinternational.com)>; Jennifer Gilkey <[jgilkey@bbcinternational.com](mailto:jgilkey@bbcinternational.com)>; Kathy Purvis <[kathy@bbcinternational.com](mailto:kathy@bbcinternational.com)>  
**Subject:** COG - New Mexico DW State #002 (1RP-4549) - Delineation Workplan

Olivia and Amber,

Please find the attached Delineation Workplan and remediation proposal for the COG New Mexico DW State #002 (1RP-4549). COG is requesting that you review this plan and is looking forward to the OCD's and BLM's approval.

If you have any questions, please let me know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS  
President  
BBC International, Inc.  
World-Wide Environmental Specialists  
Mailing Address:  
P. O. Box 805  
Hobbs, NM 88241-0805 USA  
Shipping Address:  
1324 W. Marland St.  
Hobbs, NM 88240 USA  
Phone: (575) 397-6388  
Fax: (575) 397-0397  
E-Mail: [cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)



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**From:** Groves, Amber  
**To:** [Cliff Brunson](#); "[Yu, Olivia, EMNRD](#)"  
**Cc:** "[Becky Haskell](#)"; "[Ken Swinney](#)"; "[Jennifer Gilkey](#)"; "[Kathy Purvis](#)"  
**Subject:** RE: COG - New Mexico DW State #002 (1RP-4549) - Delineation Workplan  
**Date:** Thursday, July 6, 2017 2:47:55 PM  
**Attachments:** [image002.png](#)  
[image001.png](#)

---

Cliff,

NMSLO is in agreement with NMOCD on work plan approval and confirmation sampling.

Thank you,

**Amber Groves**

*Remediation Specialist*

*Field Operations Division*

(575)392-3697

(575)263-3209 cell

New Mexico State Land Office

2827 N. Dal Paso Suite 117

Hobbs, NM 88260

.....  
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**From:** Cliff Brunson [mailto:[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)]  
**Sent:** Wednesday, June 14, 2017 1:52 PM  
**To:** 'Yu, Olivia, EMNRD' <[Olivia.Yu@state.nm.us](mailto:Olivia.Yu@state.nm.us)>; Groves, Amber <[agroves@slo.state.nm.us](mailto:agroves@slo.state.nm.us)>  
**Cc:** 'Becky Haskell' <[rhaskell@concho.com](mailto:rhaskell@concho.com)>; 'Ken Swinney' <[kswinney@bbcinternational.com](mailto:kswinney@bbcinternational.com)>; 'Jennifer Gilkey' <[jgilkey@bbcinternational.com](mailto:jgilkey@bbcinternational.com)>; 'Kathy Purvis' <[kathy@bbcinternational.com](mailto:kathy@bbcinternational.com)>  
**Subject:** RE: COG - New Mexico DW State #002 (1RP-4549) - Delineation Workplan

Olivia,

COG confirms that the condition of the approval will be met.

Thanks, Cliff



Cliff P. Brunson, CEI, CRS  
President  
BBC International, Inc.  
World-Wide Environmental Specialists  
Mailing Address:  
P. O. Box 805  
Hobbs, NM 88241-0805 USA  
Shipping Address:  
1324 W. Marland St.  
Hobbs, NM 88240 USA  
Phone: (575) 397-6388  
Fax: (575) 397-0397  
E-Mail: [cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)



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**From:** Yu, Olivia, EMNRD [<mailto:Olivia.Yu@state.nm.us>]  
**Sent:** Wednesday, June 14, 2017 12:27 PM  
**To:** Cliff Brunson <[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)>; Amber Groves <[agroves@slo.state.nm.us](mailto:agroves@slo.state.nm.us)>  
**Cc:** Becky Haskell <[rhaskell@concho.com](mailto:rhaskell@concho.com)>; Ken Swinney <[kswinney@bbcinternational.com](mailto:kswinney@bbcinternational.com)>; Jennifer Gilkey <[jgilkey@bbcinternational.com](mailto:jgilkey@bbcinternational.com)>; Kathy Purvis <[kathy@bbcinternational.com](mailto:kathy@bbcinternational.com)>  
**Subject:** RE: COG - New Mexico DW State #002 (1RP-4549) - Delineation Workplan

Dear Mr. Brunson:

NMOCD approves of the delineation and proposed remediation for 1RP-4549 with one condition: confirmatory laboratory analyses of bottom and sidewall samples at 1 ft. bgs. Please confirm. Like approval from SLO required.

Thanks,

Olivia Yu  
Environmental Specialist  
NMOCD, District I  
[Olivia.yu@state.nm.us](mailto:Olivia.yu@state.nm.us)  
575-393-6161 x113

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

---

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**To:** Yu, Olivia, EMNRD <[Olivia.Yu@state.nm.us](mailto:Olivia.Yu@state.nm.us)>; Amber Groves <[agroves@slo.state.nm.us](mailto:agroves@slo.state.nm.us)>  
**Cc:** Becky Haskell <[rhaskell@concho.com](mailto:rhaskell@concho.com)>; Ken Swinney <[kswinney@bbcinternational.com](mailto:kswinney@bbcinternational.com)>; Jennifer Gilkey <[jgilkey@bbcinternational.com](mailto:jgilkey@bbcinternational.com)>; Kathy Purvis <[kathy@bbcinternational.com](mailto:kathy@bbcinternational.com)>  
**Subject:** COG - New Mexico DW State #002 (1RP-4549) - Delineation Workplan

Olivia and Amber,

Please find the attached Delineation Workplan and remediation proposal for the COG New Mexico DW State #002 (1RP-4549). COG is requesting that you review this plan and is looking forward to the OCD's and BLM's approval.

If you have any questions, please let me know.

Thanks, Cliff

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**From:** Cliff Brunson  
**To:** "Yu, Olivia, EMNRD"; "Amber Groves"  
**Cc:** "Becky Haskell"; "Ken Swinney"; "Jennifer Gilkey"; "Kathy Purvis"  
**Subject:** RE: COG - New Mexico DW State #002 (1RP-4549) - Delineation Workplan  
**Date:** Wednesday, June 14, 2017 1:52:03 PM

---

Olivia,

COG confirms that the condition of the approval will be met.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS  
President  
BBC International, Inc.  
World-Wide Environmental Specialists  
Mailing Address:  
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\*\*\*\*\*

---

**From:** Yu, Olivia, EMNRD [mailto:[Olivia.Yu@state.nm.us](mailto:Olivia.Yu@state.nm.us)]  
**Sent:** Wednesday, June 14, 2017 12:27 PM  
**To:** Cliff Brunson <[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)>; Amber Groves <[agroves@slo.state.nm.us](mailto:agroves@slo.state.nm.us)>  
**Cc:** Becky Haskell <[rhaskell@concho.com](mailto:rhaskell@concho.com)>; Ken Swinney <[kswinney@bbcinternational.com](mailto:kswinney@bbcinternational.com)>; Jennifer Gilkey <[jgilkey@bbcinternational.com](mailto:jgilkey@bbcinternational.com)>; Kathy Purvis <[kathy@bbcinternational.com](mailto:kathy@bbcinternational.com)>  
**Subject:** RE: COG - New Mexico DW State #002 (1RP-4549) - Delineation Workplan

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[Olivia.yu@state.nm.us](mailto:Olivia.yu@state.nm.us)  
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**Sent:** Monday, May 22, 2017 2:15 PM  
**To:** Yu, Olivia, EMNRD <[Olivia.Yu@state.nm.us](mailto:Olivia.Yu@state.nm.us)>; Amber Groves <[agroves@slo.state.nm.us](mailto:agroves@slo.state.nm.us)>  
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**Subject:** COG - New Mexico DW State #002 (1RP-4549) - Delineation Workplan

Olivia and Amber,

Please find the attached Delineation Workplan and remediation proposal for the COG New Mexico DW State #002 (1RP-4549). COG is requesting that you review this plan and is looking forward to the OCD's and BLM's approval.

If you have any questions, please let me know.

Thanks, Cliff

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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS  
  
Action 157635

CONDITIONS

|   |  |
|---|--|
| Operator:<br>COG OPERATING LLC<br>600 W Illinois Ave<br>Midland, TX 79701 | OGRID:<br>229137   |
|   | Action Number:<br>157635   |
|   | Action Type:<br>[IM-SD] Incident File Support Doc (ENV) (IM-BNF) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|-----------|----------------|
| amaxwell   | None      | 11/10/2022     |