

# Closure Report

## Site Description

|                    |                               |
|--------------------|-------------------------------|
| Site Name:         | Government AC 13 Federal #5H  |
| Company:           | Oxy Permian                   |
| Legal Description: | U/L E, Section 13, T20S, R28E |
| County:            | Eddy County, NM               |
| GPS Coordinates:   | N 32.57563° W 104.13855°      |

## Release Data

|                    |                                    |
|--------------------|------------------------------------|
| Date of Release:   | 04/14/2017                         |
| Type of Release:   | Oil and produced water             |
| Source of Release: | Stuffing box packing failure       |
| Volume of Release: | 30 bbls oil, 5 bbls produced water |
| Volume Recovered:  | 30 bbls                            |

## Remediation Specifications

|                         |  |   |
|-------------------------|--|---|
| Remediation Parameters: | Excavate the entire spill to a depth of 6 inches. Backfill the site with clean soil. |   |
| Remediation Activities: | 02/15/2018 to 02/20/2018   |   |
| Plan Sent to OCD:       | 09/14/2017   | Email from Cliff Brunson to Mike Bratcher |
| OCD Approval of Plan:   | 09/21/2017   | Email from Mike Bratcher to Cliff Brunson |
| Plan Sent to BLM:       | 09/14/2017   | Email from Cliff Brunson to Shelly Tucker |
| BLM Approval of Plan:   | 10/03/2017   | Email from Shelly Tucker to Cliff Brunson |

## Supporting Documentation

|                  |  |
|------------------|--|
| Initial C-141    | Signed 04/19/2017                                  |
| Final C-141      | Upon completion                                    |
| Site Diagram     | April 2017   |
| Groundwater Plot | 140'   |
| TOPO Maps        | April 2017   |
| Lab Summary      | 05/01/2017   |
| Lab Analysis     | 05/01/2017   |
| Correspondence   | Request and approval of remediation plan via email |

## Request for Closure

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

Wade Dittrich, Environmental Specialists, Oxy Permian

02/22/2018

# NM OIL CONSERVATION

ARTESIA DISTRICT

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

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

APR 19 2017

RECEIVED

Form C-141  
Revised April 3, 2017

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

## Release Notification and Corrective Action

NABIT11050211

### OPERATOR

☒ Initial Report ☐ Final Report

|                 |                                |               |                 |
|-----------------|--------------------------------|---------------|-----------------|
| Name of Company | OXY USA WTP LP 19246.3         | Contact       | CASEY L SUMMERS |
| Address         | PO BOX 4294; HOUSTON, TX 77210 | Telephone No. | 575-513-8289    |
| Facility Name   | GOVERNMENT AC 13 FEDERAL #5H   | Facility Type | OIL WELL        |

|               |     |               |     |         |              |
|---------------|-----|---------------|-----|---------|--------------|
| Surface Owner | BLM | Mineral Owner | BLM | API No. | 30-015-40880 |
|---------------|-----|---------------|-----|---------|--------------|

### LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| E           | 13      | 20S      | 28E   | 1980          | NORTH            | 350           | WEST           | EDDY   |

Latitude\_32.5755501\_ Longitude\_-104.1384048\_ NAD83

### NATURE OF RELEASE

|                             |   |   |  |                            |           |
|-----------------------------|---|---|--|----------------------------|-----------|
| Type of Release             | OIL & PRODUCED WATER  | Volume of Release                         | 30 bbls<br>OIL/5 bbls PW                                     | Volume Recovered           | 30 bbls   |
| Source of Release           | STUFFING BOX PACKING FAILURE  | Date and Hour of Occurrence               | 4-14-2017  | Date and Hour of Discovery | 4-14-2017 |
| Was Immediate Notice Given? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom?                          | MIKE BRATCHER-NMOCD; CRYSTAL WEAVER-NMOCD; SHELLY TUCKER-BLM |                            |           |
| By Whom?                    | CASEY SUMMERS   | Date and Hour                             | 4-17-2017 10:20AM  | *e-mail: 4:20am            |           |
| 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.\*

LEAK IS DUE TO STUFFING BOX PACKING ON THE WELLHEAD BLOWING OUT. 30 BBLs OF RELEASED FLUID WERE INITIALY RECOVERED BY VACUUM TRUCK. STUFFIN BOX PACKING HAS BEEN REPLACED.

Describe Area Affected and Cleanup Action Taken.\*

THE AFFECTED AREA IS APPROXIMATELY 30' X 30' ON LOCATION (MEASUREMENTS ARE SUBJECT TO CHANGE BASED ON GPS TRACK). REMEDIATION WILL BE COMPLETED IN ACCORDANCE WITH A REMEDIATION PLAN APPROVED BY BOTH NMOCD AND THE BLM.

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.

### OIL CONSERVATION DIVISION

|                                       |  |  |  |
|---------------------------------------|--|--|--|
| Signature:                            | Approved by Environmental Specialist:        |  |  |
| Printed Name: CASEY SUMMERS           | Approval Date: 4/20/17 Expiration Date: N/A  |  |  |
| Title: ENVIRONMENTAL ADVISOR          | Conditions of Approval: see attached         |  |  |
| E-mail Address: casey_summers@oxy.com | Attached <input checked="" type="checkbox"/> |  |  |
| Date: 4-19-17 Phone: 575-513-8289     |  |  |  |

ZRP-4180

Operator/Responsible Party,

The OCD has received the form C-141 you provided on **4/19/17** regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 20P-4186 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

*The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]*

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District II office in Artesia on or before 5/19/17. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

**Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.**

**Jim Griswold**

OCD Environmental Bureau Chief  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505  
505-476-3465  
jim.griswold@state.nm.us

## Weaver, Crystal, EMNRD

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**From:** Casey\_Summers@oxy.com  
**Sent:** Wednesday, April 19, 2017 12:30 PM  
**To:** Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; stucker@blm.gov; Jennifer\_Hudgens@oxy.com  
**Cc:** cbrunson@bbcinternational.com; kswinney@bbcinternational.com; kathy@bbcinternational.com; jgilkey@bbcinternational.com  
**Subject:** GOVERNMENT AC 13 FEDERAL 0005H: Initial C141  
**Attachments:** GOVERNMENT AC 13 FED 5H - INITIAL C141.pdf

All,  
Please find the Initial C141 attached for the released referred to below.

Casey Summers  
O: (575)-628-4152  
C: (575)-513-8289

---

**From:** Summers, Casey L  
**Sent:** Monday, April 17, 2017 9:20 AM  
**To:** 'Bratcher, Mike, EMNRD' <mike.bratcher@state.nm.us>; 'Weaver, Crystal, EMNRD' <Crystal.Weaver@state.nm.us>; 'Tucker, Shelly' <stucker@blm.gov>; Hudgens, Jennifer A <Jennifer\_Hudgens@oxy.com>  
**Cc:** 'Cliff Brunson' <cbrunson@bbcinternational.com>; 'Ken Swinney' <kswinney@bbcinternational.com>; 'Kathy Purvis' <kathy@bbcinternational.com>; 'Jennifer Gilkey' <jgilkey@bbcinternational.com>  
**Subject:** GOVERNMENT AC 13 FEDERAL 0005H

All,  
This is to inform you that Oxy Permian had a release at the GOVERNMENT AC 13 FEDERAL 0005H on 4/14/2017.

- **Release Location:** Legal E-13-20S-28E, API: 30-015-40880
- **Release Volume:** 30 bbls of Oil and 5 bbls of Produced Water
- **Recovered:** 30 bbls recovered
- **Cause of Release:** Stuffing Box Packing On Wellhead Blew Out
- **Approximate Area impacted by release:** 30Lx30W FT (measurements will change with future GPS track)
- **GPS Coordinates and Driving Direction:** 32.5755501,-104.1384048, FROM CR 243 OUT OF CARLSBAD GO N TO BURTON FLATS RD TURN W GO 1/2-1 MILE GO PAST BUCKSKIN RD THEN TURN LEFT TO LOCATION

Please let me know if you have any questions.

Casey Summers  
O: (575)-628-4152  
C: (575)-513-8289

## **Bratcher, Mike, EMNRD**

---

**From:** Casey\_Summers@oxy.com  
**Sent:** Monday, April 17, 2017 9:20 AM  
**To:** Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; stucker@blm.gov; Jennifer\_Hudgens@oxy.com  
**Cc:** cbrunson@bbcinternational.com; kswinney@bbcinternational.com; kathy@bbcinternational.com; jgilkey@bbcinternational.com  
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Please let me know if you have any questions.





Casey Summers  
O: (575)-628-4152  
C: (575)-513-8289

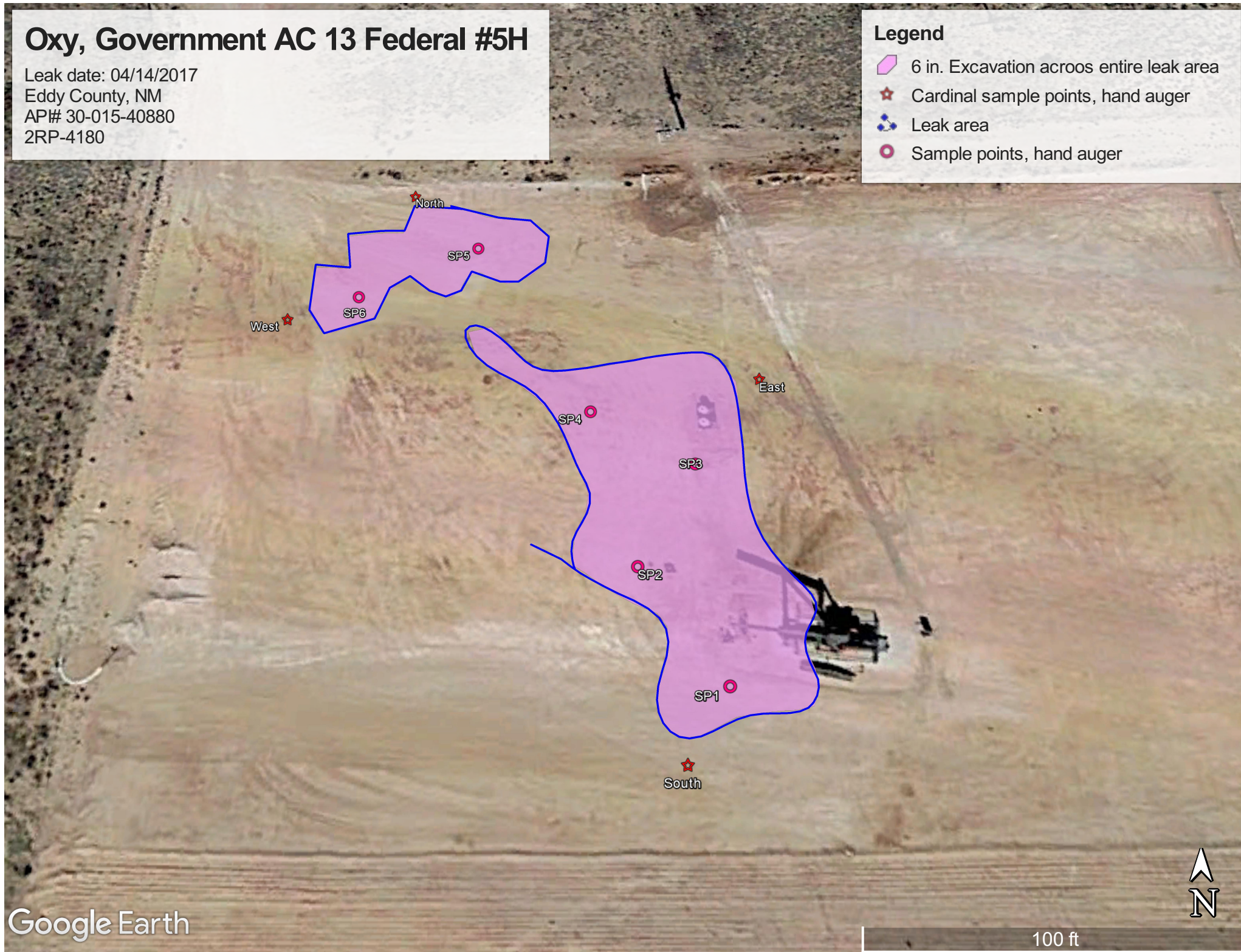


# Oxy, Government AC 13 Federal #5H

Leak date: 04/14/2017  
Eddy County, NM  
API# 30-015-40880  
2RP-4180

## Legend

-  6 in. Excavation across entire leak area
-  Cardinal sample points, hand auger
-  Leak area
-  Sample points, hand auger



Oxy, Government AC 13 Fed #5H

Sample points, hand auger

SP1, N 32.57551 W-104.13837

SP2, N 32.57560 W-104.13845

SP3, N 32.57570 W-104.13839

SP4, N 32.57574 W-104.13850

SP5, N 32.57591 W-104.13862

SP6, N 32.57586 W-104.13874

NORTH, N 32.57596 W-104.13869

SOUTH, N 32.57544 W-104.13840

EAST, N 32.57578 W-104.13832

WEST, N 32.57583 W-104.13881





# 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.00525</a> |      |               | ED     | 3    | 2    | 1   | 14  | 20S | 28E | 579656 | 3604847* | <input type="text"/> | 1345      | 171        | 140 31       |

Average Depth to Water: **140 feet**

Minimum Depth: **140 feet**

Maximum Depth: **140 feet**

Record Count: 1

### UTMNAD83 Radius Search (in meters):

**Easting (X):** 580970

**Northing (Y):** 3604556

**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.

4/25/17 2:37 PM

WATER COLUMN/ AVERAGE DEPTH TO  
WATER

Public Land Survey System (PLSS)

Q64:Q16: SWQ4: NWSec: 13Tws: 20SRng: 28E

State Plane Coordinate System - NAD27

X:ftY:ftZone:

State Plane Coordinate System - NAD83

X:ftY:ftZone:

Degrees/Minutes/Seconds

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

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

UTM - NAD27

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

SUBMIT

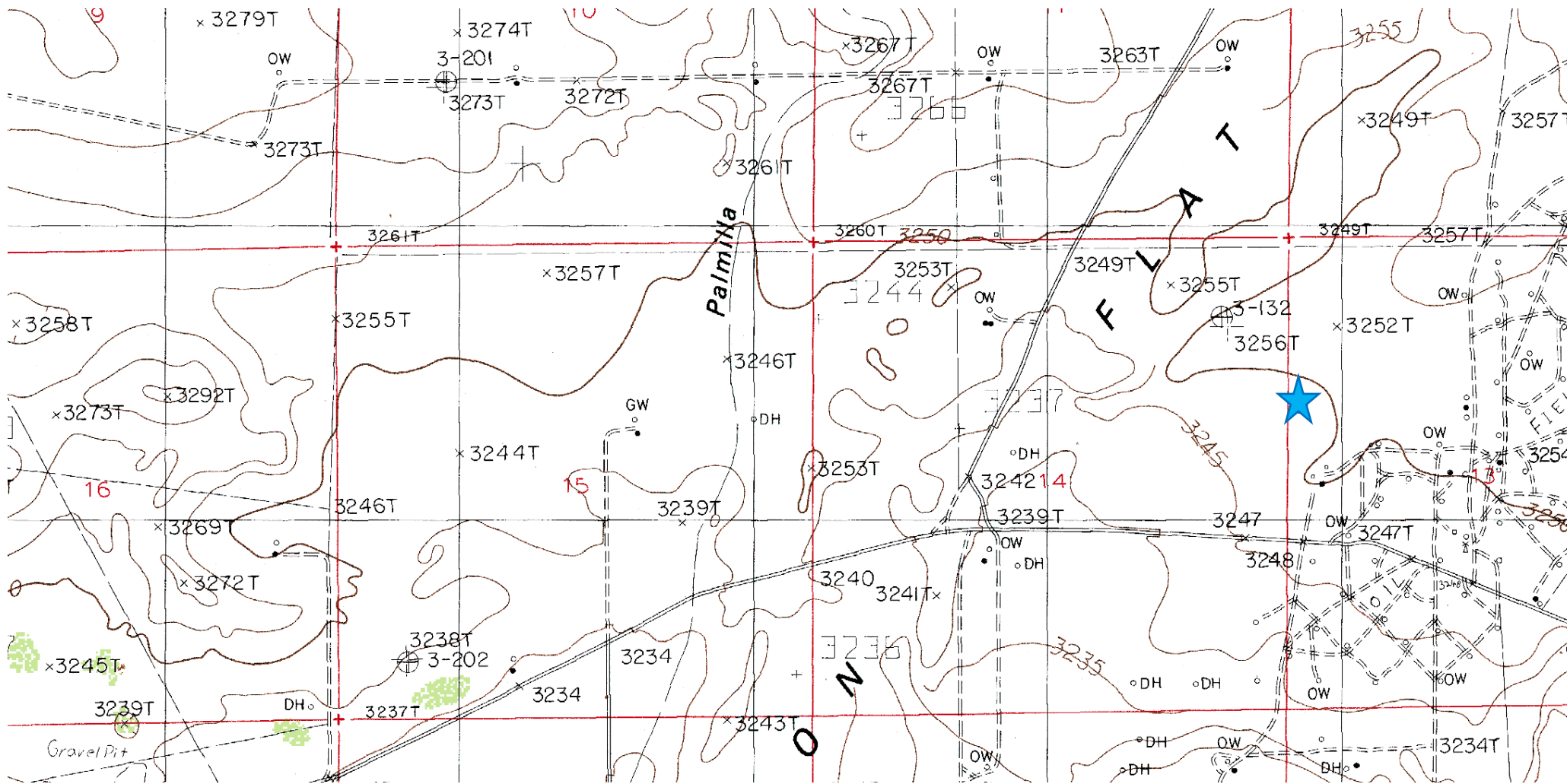
All Conversion Results are displayed as NAD 1983 UTM Zone 13

Easting (X):580970.0mtrsNorthing (Y):3604556.0mtrs

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



Oxy





**Laboratory Analytical Results Summary**  
**Government AC 13 Federal #005H**

|               |            | Sample | SP1 @ 1' | SP1 @ 2' | SP1 @ 3' | SP1 @ 8' | SP1 @ 13' |
|---------------|------------|--------|----------|----------|----------|----------|-----------|
| Analyte       | Method     | Date   | 5/1/17   | 5/1/17   | 5/1/17   | 5/1/17   | 5/1/17    |
|               |            |        | mg/Kg    | mg/Kg    | mg/Kg    | mg/Kg    | mg/Kg     |
| Benzene       | BTEX 8021B |        | <0.050   | <0.050   | <0.050   | <0.050   | n/a       |
| Toluene       | BTEX 8021B |        | <0.050   | <0.050   | <0.050   | <0.050   | n/a       |
| Ethylbenzene  | BTEX 8021B |        | <0.050   | <0.050   | <0.050   | <0.050   | n/a       |
| Total Xylenes | BTEX 8021B |        | <0.150   | <0.150   | <0.150   | <0.150   | n/a       |
| Total BTEX    | BTEX 8021B |        | <0.300   | <0.300   | <0.300   | <0.300   | n/a       |
| Chloride      | SM4500CI-B |        | 224      | 160      | 112      | 96       | 256       |
| GRO           | TPH 8015M  |        | <10.0    | <10.0    | <10.0    | <10.0    | n/a       |
| DRO           | TPH 8015M  |        | <10.0    | <10.0    | <10.0    | <10.0    | n/a       |

|               |            | Sample | SP2 @ 1' | SP2 @ 2' | SP2 @ 3' | SP2 @ 8' | SP2 @ 13' |
|---------------|------------|--------|----------|----------|----------|----------|-----------|
| Analyte       | Method     | Date   | 5/1/17   | 5/1/17   | 5/1/17   | 5/1/17   | 5/1/17    |
|               |            |        | mg/Kg    | mg/Kg    | mg/Kg    | mg/Kg    | mg/Kg     |
| Benzene       | BTEX 8021B |        | <0.050   | <0.050   | <0.050   | <0.050   | n/a       |
| Toluene       | BTEX 8021B |        | <0.050   | <0.050   | <0.050   | <0.050   | n/a       |
| Ethylbenzene  | BTEX 8021B |        | <0.050   | <0.050   | <0.050   | <0.050   | n/a       |
| Total Xylenes | BTEX 8021B |        | <0.150   | <0.150   | <0.150   | <0.150   | n/a       |
| Total BTEX    | BTEX 8021B |        | <0.300   | <0.300   | <0.300   | <0.300   | n/a       |
| Chloride      | SM4500CI-B |        | 240      | 64       | 128      | 176      | 176       |
| GRO           | TPH 8015M  |        | <10.0    | <10.0    | <10.0    | <10.0    | n/a       |
| DRO           | TPH 8015M  |        | <10.0    | <10.0    | <10.0    | <10.0    | n/a       |

|               |            | Sample | SP3 @ 1' | SP3 @ 6' | SP3 @ 11' |
|---------------|------------|--------|----------|----------|-----------|
| Analyte       | Method     | Date   | 5/1/17   | 5/1/17   | 5/1/17    |
|               |            |        | 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      | SM4500CI-B |        | 128      | 128      | 128       |
| GRO           | TPH 8015M  |        | <10.0    | <10.0    | n/a       |
| DRO           | TPH 8015M  |        | <10.0    | <10.0    | n/a       |

|               |            | Sample | SP4 @ 1' | SP4 @ 6' | SP4 @ 11' |
|---------------|------------|--------|----------|----------|-----------|
| Analyte       | Method     | Date   | 5/1/17   | 5/1/17   | 5/1/17    |
|               |            |        | 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      | SM4500CI-B |        | 96       | 112      | 128       |
| 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   | 5/1/17   | 5/1/17   | 5/1/17    |
|               |            |        | 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   | 0.059    | n/a       |
| Total Xylenes | BTEX 8021B |        | <0.150   | <0.150   | n/a       |
| Total BTEX    | BTEX 8021B |        | <0.300   | <0.300   | n/a       |
| Chloride      | SM4500CI-B |        | 32       | 48       | 32        |
| GRO           | TPH 8015M  |        | <10.0    | <10.0    | n/a       |
| DRO           | TPH 8015M  |        | <10.0    | <10.0    | n/a       |

|               |            | Sample | SP6 @ 1' | SP6 @ 6' | SP6 @ 11' |
|---------------|------------|--------|----------|----------|-----------|
| Analyte       | Method     | Date   | 5/1/17   | 5/1/17   | 5/1/17    |
|               |            |        | 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 |        | 0.056    | 0.058    | n/a       |
| Total Xylenes | BTEX 8021B |        | <0.150   | <0.150   | n/a       |
| Total BTEX    | BTEX 8021B |        | <0.300   | <0.300   | n/a       |
| Chloride      | SM4500CI-B |        | 32       | 16       | 64        |
| GRO           | TPH 8015M  |        | <10.0    | <10.0    | n/a       |
| DRO           | TPH 8015M  |        | <10.0    | <10.0    | n/a       |

|               |            | Sample | NORTH @ SURFACE |
|---------------|------------|--------|-----------------|
| Analyte       | Method     | Date   | 5/1/17          |
|               |            |        | mg/Kg           |
| Benzene       | BTEX 8021B |        | <0.050          |
| Toluene       | BTEX 8021B |        | <0.050          |
| Ethylbenzene  | BTEX 8021B |        | 0.058           |
| Total Xylenes | BTEX 8021B |        | <0.150          |
| Total BTEX    | BTEX 8021B |        | <0.300          |
| Chloride      | SM4500CI-B |        | 96              |
| GRO           | TPH 8015M  |        | <10.0           |
| DRO           | TPH 8015M  |        | <10.0           |

|               |            | Sample | SOUTH @ SURFACE |
|---------------|------------|--------|-----------------|
| Analyte       | Method     | Date   | 5/1/17          |
|               |            |        | mg/Kg           |
| Benzene       | BTEX 8021B |        | <0.050          |
| Toluene       | BTEX 8021B |        | <0.050          |
| Ethylbenzene  | BTEX 8021B |        | 0.063           |
| Total Xylenes | BTEX 8021B |        | <0.150          |
| Total BTEX    | BTEX 8021B |        | <0.300          |
| Chloride      | SM4500CI-B |        | 128             |
| GRO           | TPH 8015M  |        | <10.0           |
| DRO           | TPH 8015M  |        | <10.0           |

|            |            | Sample | EAST @ SURFACE |
|------------|------------|--------|----------------|
| Analyte    | Method     | Date   | 5/1/17         |
|            |            |        | mg/Kg          |
| Benzene    | BTEX 8021B |        | <0.050         |
| Toluene    | BTEX 8021B |        | <0.050         |
| Ethylbenz  | BTEX 8021B |        | 0.06           |
| Total Xyle | BTEX 8021B |        | <0.150         |
| Total BTE  | BTEX 8021B |        | <0.300         |
| Chloride   | SM4500CI-B |        | 128            |
| GRO        | TPH 8015M  |        | <10.0          |
| DRO        | TPH 8015M  |        | <10.0          |

|            |            | Sample | WEST @ SURFACE |
|------------|------------|--------|----------------|
| Analyte    | Method     | Date   | 5/1/17         |
|            |            |        | mg/Kg          |
| Benzene    | BTEX 8021B |        | <0.050         |
| Toluene    | BTEX 8021B |        | <0.050         |
| Ethylbenz  | BTEX 8021B |        | 0.06           |
| Total Xyle | BTEX 8021B |        | <0.150         |
| Total BTE  | BTEX 8021B |        | <0.300         |
| Chloride   | SM4500CI-B |        | 144            |
| GRO        | TPH 8015M  |        | <10.0          |
| DRO        | TPH 8015M  |        | <10.0          |



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

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May 11, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: GOVERNMENT AC 13 #5H

Enclosed are the results of analyses for samples received by the laboratory on 05/04/17 16:55.

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



**Analytical Results For:**

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

|                   |                      |                     |                |
|-------------------|----------------------|---------------------|----------------|
| Received:         | 05/04/2017           | Sampling Date:      | 05/01/2017     |
| Reported:         | 05/11/2017           | Sampling Type:      | Soil           |
| Project Name:     | GOVERNMENT AC 13 #5H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NOT GIVEN            | Sample Received By: | Tamara Oldaker |
| Project Location: | NONE GIVEN           |                     |                |

**Sample ID: SP1 @ 1' (H701207-01)**

| 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           | 05/06/2017 | ND              | 2.07 | 104        | 2.00          | 0.495 |           |
| Toluene*       | <0.050 | 0.050           | 05/06/2017 | ND              | 1.88 | 93.8       | 2.00          | 0.446 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 05/06/2017 | ND              | 1.82 | 91.0       | 2.00          | 0.875 |           |
| Total Xylenes* | <0.150 | 0.150           | 05/06/2017 | ND              | 5.19 | 86.4       | 6.00          | 1.11  |           |
| Total BTX      | <0.300 | 0.300           | 05/06/2017 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 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             | 224    | 16.0            | 05/08/2017 | 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            | 05/05/2017 | ND              | 191 | 95.5       | 200           | 2.60 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 05/05/2017 | ND              | 211 | 105        | 200           | 2.93 |           |

Surrogate: 1-Chlorooctane 83.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 84.8 % 34.7-157

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

|                   |                      |                     |                |
|-------------------|----------------------|---------------------|----------------|
| Received:         | 05/04/2017           | Sampling Date:      | 05/01/2017     |
| Reported:         | 05/11/2017           | Sampling Type:      | Soil           |
| Project Name:     | GOVERNMENT AC 13 #5H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NOT GIVEN            | Sample Received By: | Tamara Oldaker |
| Project Location: | NONE GIVEN           |                     |                |

**Sample ID: SP1 @ 2' (H701207-02)**

| 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           | 05/06/2017 | ND              | 2.07 | 104        | 2.00          | 0.495 |           |
| Toluene*       | <0.050 | 0.050           | 05/06/2017 | ND              | 1.88 | 93.8       | 2.00          | 0.446 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 05/06/2017 | ND              | 1.82 | 91.0       | 2.00          | 0.875 |           |
| Total Xylenes* | <0.150 | 0.150           | 05/06/2017 | ND              | 5.19 | 86.4       | 6.00          | 1.11  |           |
| Total BTEx     | <0.300 | 0.300           | 05/06/2017 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 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            | 05/08/2017 | 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            | 05/05/2017 | ND              | 191 | 95.5       | 200           | 2.60 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 05/05/2017 | ND              | 211 | 105        | 200           | 2.93 |           |

Surrogate: 1-Chlorooctane 83.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 87.4 % 34.7-157

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|                   |                      |                     |                |
|-------------------|----------------------|---------------------|----------------|
| Received:         | 05/04/2017           | Sampling Date:      | 05/01/2017     |
| Reported:         | 05/11/2017           | Sampling Type:      | Soil           |
| Project Name:     | GOVERNMENT AC 13 #5H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NOT GIVEN            | Sample Received By: | Tamara Oldaker |
| Project Location: | NONE GIVEN           |                     |                |

**Sample ID: SP1 @ 3' (H701207-03)**

| 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           | 05/06/2017 | ND              | 2.07 | 104        | 2.00          | 0.495 |           |  |
| Toluene*       | <0.050 | 0.050           | 05/06/2017 | ND              | 1.88 | 93.8       | 2.00          | 0.446 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 05/06/2017 | ND              | 1.82 | 91.0       | 2.00          | 0.875 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 05/06/2017 | ND              | 5.19 | 86.4       | 6.00          | 1.11  |           |  |
| Total BTX      | <0.300 | 0.300           | 05/06/2017 | ND              |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 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             | 112    | 16.0            | 05/08/2017 | 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            | 05/05/2017 | ND              | 191 | 95.5       | 200           | 2.60 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 05/05/2017 | ND              | 211 | 105        | 200           | 2.93 |           |

Surrogate: 1-Chlorooctane 74.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 70.5 % 34.7-157

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|                   |                      |                     |                |
|-------------------|----------------------|---------------------|----------------|
| Received:         | 05/04/2017           | Sampling Date:      | 05/01/2017     |
| Reported:         | 05/11/2017           | Sampling Type:      | Soil           |
| Project Name:     | GOVERNMENT AC 13 #5H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NOT GIVEN            | Sample Received By: | Tamara Oldaker |
| Project Location: | NONE GIVEN           |                     |                |

**Sample ID: SP1 @ 8' (H701207-04)**

| 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           | 05/06/2017 | ND              | 2.07 | 104        | 2.00          | 0.495 |           |  |
| Toluene*       | <0.050 | 0.050           | 05/06/2017 | ND              | 1.88 | 93.8       | 2.00          | 0.446 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 05/06/2017 | ND              | 1.82 | 91.0       | 2.00          | 0.875 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 05/06/2017 | ND              | 5.19 | 86.4       | 6.00          | 1.11  |           |  |
| Total BTEX     | <0.300 | 0.300           | 05/06/2017 | ND              |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 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             | 96.0   | 16.0            | 05/08/2017 | 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            | 05/05/2017 | ND              | 191 | 95.5       | 200           | 2.60 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 05/05/2017 | ND              | 211 | 105        | 200           | 2.93 |           |

Surrogate: 1-Chlorooctane 88.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 89.5 % 34.7-157

**Sample ID: SP1 @ 13' (H701207-05)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 256    | 16.0            | 05/08/2017 | ND              | 416 | 104        | 400           | 0.00 |           |

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

|                   |                      |                     |                |
|-------------------|----------------------|---------------------|----------------|
| Received:         | 05/04/2017           | Sampling Date:      | 05/01/2017     |
| Reported:         | 05/11/2017           | Sampling Type:      | Soil           |
| Project Name:     | GOVERNMENT AC 13 #5H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NOT GIVEN            | Sample Received By: | Tamara Oldaker |
| Project Location: | NONE GIVEN           |                     |                |

**Sample ID: SP2 @ 1' (H701207-06)**

| 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           | 05/06/2017 | ND              | 2.07 | 104        | 2.00          | 0.495 |           |
| Toluene*       | <0.050 | 0.050           | 05/06/2017 | ND              | 1.88 | 93.8       | 2.00          | 0.446 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 05/06/2017 | ND              | 1.82 | 91.0       | 2.00          | 0.875 |           |
| Total Xylenes* | <0.150 | 0.150           | 05/06/2017 | ND              | 5.19 | 86.4       | 6.00          | 1.11  |           |
| Total BTEX     | <0.300 | 0.300           | 05/06/2017 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 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             | 240    | 16.0            | 05/08/2017 | 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            | 05/05/2017 | ND              | 191 | 95.5       | 200           | 2.60 |           |  |
| DRO >C10-C28 | <10.0  | 10.0            | 05/05/2017 | ND              | 211 | 105        | 200           | 2.93 |           |  |

Surrogate: 1-Chlorooctane 69.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 87.5 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

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Fax To: (575) 397-0397

|                   |                      |                     |                |
|-------------------|----------------------|---------------------|----------------|
| Received:         | 05/04/2017           | Sampling Date:      | 05/01/2017     |
| Reported:         | 05/11/2017           | Sampling Type:      | Soil           |
| Project Name:     | GOVERNMENT AC 13 #5H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NOT GIVEN            | Sample Received By: | Tamara Oldaker |
| Project Location: | NONE GIVEN           |                     |                |

**Sample ID: SP2 @ 2' (H701207-07)**

| 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           | 05/06/2017 | ND              | 2.07 | 104        | 2.00          | 0.495 |           |  |
| Toluene*       | <0.050 | 0.050           | 05/06/2017 | ND              | 1.88 | 93.8       | 2.00          | 0.446 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 05/06/2017 | ND              | 1.82 | 91.0       | 2.00          | 0.875 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 05/06/2017 | ND              | 5.19 | 86.4       | 6.00          | 1.11  |           |  |
| Total BTX      | <0.300 | 0.300           | 05/06/2017 | ND              |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 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            | 05/08/2017 | 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            | 05/05/2017 | ND              | 191 | 95.5       | 200           | 2.60 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 05/05/2017 | ND              | 211 | 105        | 200           | 2.93 |           |

Surrogate: 1-Chlorooctane 90.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 91.7 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

|                   |                      |                     |                |
|-------------------|----------------------|---------------------|----------------|
| Received:         | 05/04/2017           | Sampling Date:      | 05/01/2017     |
| Reported:         | 05/11/2017           | Sampling Type:      | Soil           |
| Project Name:     | GOVERNMENT AC 13 #5H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NOT GIVEN            | Sample Received By: | Tamara Oldaker |
| Project Location: | NONE GIVEN           |                     |                |

**Sample ID: SP2 @ 3' (H701207-08)**

| 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           | 05/06/2017 | ND              | 2.07 | 104        | 2.00          | 0.495 |           |
| Toluene*       | <0.050 | 0.050           | 05/06/2017 | ND              | 1.88 | 93.8       | 2.00          | 0.446 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 05/06/2017 | ND              | 1.82 | 91.0       | 2.00          | 0.875 |           |
| Total Xylenes* | <0.150 | 0.150           | 05/06/2017 | ND              | 5.19 | 86.4       | 6.00          | 1.11  |           |
| Total BTEx     | <0.300 | 0.300           | 05/06/2017 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 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            | 05/08/2017 | 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            | 05/05/2017 | ND              | 191 | 95.5       | 200           | 2.60 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 05/05/2017 | ND              | 211 | 105        | 200           | 2.93 |           |

Surrogate: 1-Chlorooctane 63.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 78.6 % 34.7-157

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Hobbs NM, 88241  
Fax To: (575) 397-0397

|                   |                      |                     |                |
|-------------------|----------------------|---------------------|----------------|
| Received:         | 05/04/2017           | Sampling Date:      | 05/01/2017     |
| Reported:         | 05/11/2017           | Sampling Type:      | Soil           |
| Project Name:     | GOVERNMENT AC 13 #5H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NOT GIVEN            | Sample Received By: | Tamara Oldaker |
| Project Location: | NONE GIVEN           |                     |                |

**Sample ID: SP2 @ 8' (H701207-09)**

| 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           | 05/06/2017 | ND              | 2.07 | 104        | 2.00          | 0.495 |           |  |
| Toluene*       | <0.050 | 0.050           | 05/06/2017 | ND              | 1.88 | 93.8       | 2.00          | 0.446 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 05/06/2017 | ND              | 1.82 | 91.0       | 2.00          | 0.875 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 05/06/2017 | ND              | 5.19 | 86.4       | 6.00          | 1.11  |           |  |
| Total BTEx     | <0.300 | 0.300           | 05/06/2017 | ND              |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 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             | 176    | 16.0            | 05/08/2017 | 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            | 05/05/2017 | ND              | 191 | 95.5       | 200           | 2.60 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 05/05/2017 | ND              | 211 | 105        | 200           | 2.93 |           |

Surrogate: 1-Chlorooctane 61.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 75.2 % 34.7-157

**Sample ID: SP2 @ 13' (H701207-10)**

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 176    | 16.0            | 05/08/2017 | ND              | 416 | 104        | 400           | 0.00 |           |

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Fax To: (575) 397-0397

|                   |                      |                     |                |
|-------------------|----------------------|---------------------|----------------|
| Received:         | 05/04/2017           | Sampling Date:      | 05/01/2017     |
| Reported:         | 05/11/2017           | Sampling Type:      | Soil           |
| Project Name:     | GOVERNMENT AC 13 #5H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NOT GIVEN            | Sample Received By: | Tamara Oldaker |
| Project Location: | NONE GIVEN           |                     |                |

**Sample ID: SP3 @ 1' (H701207-11)**

| 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           | 05/06/2017 | ND              | 2.07 | 104        | 2.00          | 0.495 |           |  |
| Toluene*       | <0.050 | 0.050           | 05/06/2017 | ND              | 1.88 | 93.8       | 2.00          | 0.446 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 05/06/2017 | ND              | 1.82 | 91.0       | 2.00          | 0.875 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 05/06/2017 | ND              | 5.19 | 86.4       | 6.00          | 1.11  |           |  |
| Total BTEx     | <0.300 | 0.300           | 05/06/2017 | ND              |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 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            | 05/08/2017 | 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            | 05/06/2017 | ND              | 165 | 82.4       | 200           | 3.75 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 05/06/2017 | ND              | 183 | 91.5       | 200           | 7.50 |           |

Surrogate: 1-Chlorooctane 67.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 90.0 % 34.7-157

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|                   |                      |                     |                |
|-------------------|----------------------|---------------------|----------------|
| Received:         | 05/04/2017           | Sampling Date:      | 05/01/2017     |
| Reported:         | 05/11/2017           | Sampling Type:      | Soil           |
| Project Name:     | GOVERNMENT AC 13 #5H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NOT GIVEN            | Sample Received By: | Tamara Oldaker |
| Project Location: | NONE GIVEN           |                     |                |

**Sample ID: SP3 @ 6' (H701207-12)**

| 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           | 05/06/2017 | ND              | 2.07 | 104        | 2.00          | 0.495 |           |  |
| Toluene*       | <0.050 | 0.050           | 05/06/2017 | ND              | 1.88 | 93.8       | 2.00          | 0.446 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 05/06/2017 | ND              | 1.82 | 91.0       | 2.00          | 0.875 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 05/06/2017 | ND              | 5.19 | 86.4       | 6.00          | 1.11  |           |  |
| Total BTX      | <0.300 | 0.300           | 05/06/2017 | ND              |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 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            | 05/08/2017 | 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            | 05/06/2017 | ND              | 165 | 82.4       | 200           | 3.75 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 05/06/2017 | ND              | 183 | 91.5       | 200           | 7.50 |           |

Surrogate: 1-Chlorooctane 88.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 94.3 % 34.7-157

**Sample ID: SP3 @ 11' (H701207-13)**

| 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            | 05/08/2017 | ND              | 416 | 104        | 400           | 0.00 |           |

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

|                   |                      |                     |                |
|-------------------|----------------------|---------------------|----------------|
| Received:         | 05/04/2017           | Sampling Date:      | 05/01/2017     |
| Reported:         | 05/11/2017           | Sampling Type:      | Soil           |
| Project Name:     | GOVERNMENT AC 13 #5H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NOT GIVEN            | Sample Received By: | Tamara Oldaker |
| Project Location: | NONE GIVEN           |                     |                |

**Sample ID: SP4 @ 1' (H701207-14)**

| 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           | 05/06/2017 | ND              | 2.07 | 104        | 2.00          | 0.495 |           |
| Toluene*       | <0.050 | 0.050           | 05/06/2017 | ND              | 1.88 | 93.8       | 2.00          | 0.446 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 05/06/2017 | ND              | 1.82 | 91.0       | 2.00          | 0.875 |           |
| Total Xylenes* | <0.150 | 0.150           | 05/06/2017 | ND              | 5.19 | 86.4       | 6.00          | 1.11  |           |
| Total BTX      | <0.300 | 0.300           | 05/06/2017 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 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             | 96.0   | 16.0            | 05/08/2017 | ND              | 432 | 108        | 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            | 05/06/2017 | ND              | 165 | 82.4       | 200           | 3.75 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 05/06/2017 | ND              | 183 | 91.5       | 200           | 7.50 |           |

Surrogate: 1-Chlorooctane 54.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 70.8 % 34.7-157

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|                   |                      |                     |                |
|-------------------|----------------------|---------------------|----------------|
| Received:         | 05/04/2017           | Sampling Date:      | 05/01/2017     |
| Reported:         | 05/11/2017           | Sampling Type:      | Soil           |
| Project Name:     | GOVERNMENT AC 13 #5H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NOT GIVEN            | Sample Received By: | Tamara Oldaker |
| Project Location: | NONE GIVEN           |                     |                |

**Sample ID: SP4 @ 6' (H701207-15)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: BF |      |            |               |       |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*       | <0.050 | 0.050           | 05/08/2017 | ND              | 2.29 | 114        | 2.00          | 1.36  |           |
| Toluene*       | <0.050 | 0.050           | 05/08/2017 | ND              | 2.23 | 111        | 2.00          | 0.391 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 05/08/2017 | ND              | 2.16 | 108        | 2.00          | 0.994 |           |
| Total Xylenes* | <0.150 | 0.150           | 05/08/2017 | ND              | 6.38 | 106        | 6.00          | 1.26  |           |
| Total BTX      | <0.300 | 0.300           | 05/08/2017 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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             | 112    | 16.0            | 05/08/2017 | ND              | 432 | 108        | 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            | 05/06/2017 | ND              | 165 | 82.4       | 200           | 3.75 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 05/06/2017 | ND              | 183 | 91.5       | 200           | 7.50 |           |

Surrogate: 1-Chlorooctane 67.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 84.1 % 34.7-157

**Sample ID: SP4 @ 11' (H701207-16)**

| 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            | 05/08/2017 | ND              | 432 | 108        | 400           | 0.00 |           |

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|                   |                      |                     |                |
|-------------------|----------------------|---------------------|----------------|
| Received:         | 05/04/2017           | Sampling Date:      | 05/01/2017     |
| Reported:         | 05/11/2017           | Sampling Type:      | Soil           |
| Project Name:     | GOVERNMENT AC 13 #5H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NOT GIVEN            | Sample Received By: | Tamara Oldaker |
| Project Location: | NONE GIVEN           |                     |                |

**Sample ID: SP5 @ 1' (H701207-17)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: BF |      |            |               |       |           |  |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 05/08/2017 | ND              | 2.29 | 114        | 2.00          | 1.36  |           |  |
| Toluene*       | <0.050 | 0.050           | 05/08/2017 | ND              | 2.23 | 111        | 2.00          | 0.391 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 05/08/2017 | ND              | 2.16 | 108        | 2.00          | 0.994 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 05/08/2017 | ND              | 6.38 | 106        | 6.00          | 1.26  |           |  |
| Total BTX      | <0.300 | 0.300           | 05/08/2017 | ND              |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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            | 05/08/2017 | ND              | 432 | 108        | 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            | 05/06/2017 | ND              | 165 | 82.4       | 200           | 3.75 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 05/06/2017 | ND              | 183 | 91.5       | 200           | 7.50 |           |

Surrogate: 1-Chlorooctane 73.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 92.4 % 34.7-157

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

|                   |                      |                     |                |
|-------------------|----------------------|---------------------|----------------|
| Received:         | 05/04/2017           | Sampling Date:      | 05/01/2017     |
| Reported:         | 05/11/2017           | Sampling Type:      | Soil           |
| Project Name:     | GOVERNMENT AC 13 #5H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NOT GIVEN            | Sample Received By: | Tamara Oldaker |
| Project Location: | NONE GIVEN           |                     |                |

**Sample ID: SP5 @ 6' (H701207-18)**

| BTX 8021B      |              | mg/kg           |            | Analyzed By: BF |      |            |               |       |           |
|----------------|--------------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte        | Result       | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*       | <0.050       | 0.050           | 05/08/2017 | ND              | 2.29 | 114        | 2.00          | 1.36  |           |
| Toluene*       | <0.050       | 0.050           | 05/08/2017 | ND              | 2.23 | 111        | 2.00          | 0.391 |           |
| Ethylbenzene*  | <b>0.059</b> | 0.050           | 05/08/2017 | ND              | 2.16 | 108        | 2.00          | 0.994 |           |
| Total Xylenes* | <0.150       | 0.150           | 05/08/2017 | ND              | 6.38 | 106        | 6.00          | 1.26  |           |
| Total BTX      | <0.300       | 0.300           | 05/08/2017 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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             | <b>48.0</b> | 16.0            | 05/08/2017 | ND              | 432 | 108        | 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            | 05/06/2017 | ND              | 165 | 82.4       | 200           | 3.75 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 05/06/2017 | ND              | 183 | 91.5       | 200           | 7.50 |           |

Surrogate: 1-Chlorooctane 61.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 80.3 % 34.7-157

**Sample ID: SP5 @ 11' (H701207-19)**

| Chloride, SM4500CI-B |             | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | <b>32.0</b> | 16.0            | 05/08/2017 | ND              | 432 | 108        | 400           | 0.00 |           |

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Fax To: (575) 397-0397

|                   |                      |                     |                |
|-------------------|----------------------|---------------------|----------------|
| Received:         | 05/04/2017           | Sampling Date:      | 05/01/2017     |
| Reported:         | 05/11/2017           | Sampling Type:      | Soil           |
| Project Name:     | GOVERNMENT AC 13 #5H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NOT GIVEN            | Sample Received By: | Tamara Oldaker |
| Project Location: | NONE GIVEN           |                     |                |

**Sample ID: SP6 @ 1' (H701207-20)**

| BTX 8021B      |              | mg/kg           |            | Analyzed By: BF |      |            |               |       |           |  |
|----------------|--------------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|--|
| Analyte        | Result       | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |  |
| Benzene*       | <0.050       | 0.050           | 05/08/2017 | ND              | 2.29 | 114        | 2.00          | 1.36  |           |  |
| Toluene*       | <0.050       | 0.050           | 05/08/2017 | ND              | 2.23 | 111        | 2.00          | 0.391 |           |  |
| Ethylbenzene*  | <b>0.056</b> | 0.050           | 05/08/2017 | ND              | 2.16 | 108        | 2.00          | 0.994 |           |  |
| Total Xylenes* | <0.150       | 0.150           | 05/08/2017 | ND              | 6.38 | 106        | 6.00          | 1.26  |           |  |
| Total BTX      | <0.300       | 0.300           | 05/08/2017 | ND              |      |            |               |       |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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             | <b>32.0</b> | 16.0            | 05/08/2017 | ND              | 432 | 108        | 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            | 05/06/2017 | ND              | 165 | 82.4       | 200           | 3.75 |           |  |
| DRO >C10-C28 | <10.0  | 10.0            | 05/06/2017 | ND              | 183 | 91.5       | 200           | 7.50 |           |  |

Surrogate: 1-Chlorooctane 91.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 95.0 % 34.7-157

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|                   |                      |                     |                |
|-------------------|----------------------|---------------------|----------------|
| Received:         | 05/04/2017           | Sampling Date:      | 05/01/2017     |
| Reported:         | 05/11/2017           | Sampling Type:      | Soil           |
| Project Name:     | GOVERNMENT AC 13 #5H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NOT GIVEN            | Sample Received By: | Tamara Oldaker |
| Project Location: | NONE GIVEN           |                     |                |

**Sample ID: SP6 @ 6' (H701207-21)**

| BTX 8021B      |              | mg/kg           |            | Analyzed By: BF |      |            |               |       |           |
|----------------|--------------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte        | Result       | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*       | <0.050       | 0.050           | 05/08/2017 | ND              | 2.29 | 114        | 2.00          | 1.36  |           |
| Toluene*       | <0.050       | 0.050           | 05/08/2017 | ND              | 2.23 | 111        | 2.00          | 0.391 |           |
| Ethylbenzene*  | <b>0.058</b> | 0.050           | 05/08/2017 | ND              | 2.16 | 108        | 2.00          | 0.994 |           |
| Total Xylenes* | <0.150       | 0.150           | 05/08/2017 | ND              | 6.38 | 106        | 6.00          | 1.26  |           |
| Total BTX      | <0.300       | 0.300           | 05/08/2017 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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             | <b>16.0</b> | 16.0            | 05/08/2017 | ND              | 432 | 108        | 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            | 05/06/2017 | ND              | 165 | 82.4       | 200           | 3.75 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 05/06/2017 | ND              | 183 | 91.5       | 200           | 7.50 |           |

Surrogate: 1-Chlorooctane 65.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 84.5 % 34.7-157

**Sample ID: SP6 @ 11' (H701207-22)**

| Chloride, SM4500CI-B |             | mg/kg           |            | Analyzed By: AC |     |            |               |      |           |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | <b>64.0</b> | 16.0            | 05/08/2017 | ND              | 432 | 108        | 400           | 0.00 |           |

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Hobbs NM, 88241  
Fax To: (575) 397-0397

|                   |                      |                     |                |
|-------------------|----------------------|---------------------|----------------|
| Received:         | 05/04/2017           | Sampling Date:      | 05/01/2017     |
| Reported:         | 05/11/2017           | Sampling Type:      | Soil           |
| Project Name:     | GOVERNMENT AC 13 #5H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NOT GIVEN            | Sample Received By: | Tamara Oldaker |
| Project Location: | NONE GIVEN           |                     |                |

**Sample ID: NORTH (H701207-23)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: BF |      |            |               |       |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*       | <0.050 | 0.050           | 05/08/2017 | ND              | 2.29 | 114        | 2.00          | 1.36  |           |
| Toluene*       | <0.050 | 0.050           | 05/08/2017 | ND              | 2.23 | 111        | 2.00          | 0.391 |           |
| Ethylbenzene*  | 0.058  | 0.050           | 05/08/2017 | ND              | 2.16 | 108        | 2.00          | 0.994 |           |
| Total Xylenes* | <0.150 | 0.150           | 05/08/2017 | ND              | 6.38 | 106        | 6.00          | 1.26  |           |
| Total BTX      | <0.300 | 0.300           | 05/08/2017 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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             | 96.0   | 16.0            | 05/08/2017 | ND              | 432 | 108        | 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            | 05/06/2017 | ND              | 165 | 82.4       | 200           | 3.75 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 05/06/2017 | ND              | 183 | 91.5       | 200           | 7.50 |           |

Surrogate: 1-Chlorooctane 68.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 91.5 % 34.7-157

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|                   |                      |                     |                |
|-------------------|----------------------|---------------------|----------------|
| Received:         | 05/04/2017           | Sampling Date:      | 05/01/2017     |
| Reported:         | 05/11/2017           | Sampling Type:      | Soil           |
| Project Name:     | GOVERNMENT AC 13 #5H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NOT GIVEN            | Sample Received By: | Tamara Oldaker |
| Project Location: | NONE GIVEN           |                     |                |

**Sample ID: EAST (H701207-24)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: BF |      |            |               |       |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*       | <0.050 | 0.050           | 05/08/2017 | ND              | 2.29 | 114        | 2.00          | 1.36  |           |
| Toluene*       | <0.050 | 0.050           | 05/08/2017 | ND              | 2.23 | 111        | 2.00          | 0.391 |           |
| Ethylbenzene*  | 0.060  | 0.050           | 05/08/2017 | ND              | 2.16 | 108        | 2.00          | 0.994 |           |
| Total Xylenes* | <0.150 | 0.150           | 05/08/2017 | ND              | 6.38 | 106        | 6.00          | 1.26  |           |
| Total BTX      | <0.300 | 0.300           | 05/08/2017 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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            | 05/08/2017 | ND              | 432 | 108        | 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            | 05/06/2017 | ND              | 165 | 82.4       | 200           | 3.75 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 05/06/2017 | ND              | 183 | 91.5       | 200           | 7.50 |           |

Surrogate: 1-Chlorooctane 67.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 88.4 % 34.7-157

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Fax To: (575) 397-0397

|                   |                      |                     |                |
|-------------------|----------------------|---------------------|----------------|
| Received:         | 05/04/2017           | Sampling Date:      | 05/01/2017     |
| Reported:         | 05/11/2017           | Sampling Type:      | Soil           |
| Project Name:     | GOVERNMENT AC 13 #5H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NOT GIVEN            | Sample Received By: | Tamara Oldaker |
| Project Location: | NONE GIVEN           |                     |                |

**Sample ID: WEST (H701207-25)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: BF |      |            |               |       |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*       | <0.050 | 0.050           | 05/08/2017 | ND              | 2.29 | 114        | 2.00          | 1.36  |           |
| Toluene*       | <0.050 | 0.050           | 05/08/2017 | ND              | 2.23 | 111        | 2.00          | 0.391 |           |
| Ethylbenzene*  | 0.060  | 0.050           | 05/08/2017 | ND              | 2.16 | 108        | 2.00          | 0.994 |           |
| Total Xylenes* | <0.150 | 0.150           | 05/08/2017 | ND              | 6.38 | 106        | 6.00          | 1.26  |           |
| Total BTEx     | <0.300 | 0.300           | 05/08/2017 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 119 % 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            | 05/08/2017 | ND              | 432 | 108        | 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            | 05/06/2017 | ND              | 165 | 82.4       | 200           | 3.75 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 05/06/2017 | ND              | 183 | 91.5       | 200           | 7.50 |           |

Surrogate: 1-Chlorooctane 73.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 92.4 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

|                   |                      |                     |                |
|-------------------|----------------------|---------------------|----------------|
| Received:         | 05/04/2017           | Sampling Date:      | 05/01/2017     |
| Reported:         | 05/11/2017           | Sampling Type:      | Soil           |
| Project Name:     | GOVERNMENT AC 13 #5H | Sampling Condition: | Cool & Intact  |
| Project Number:   | NOT GIVEN            | Sample Received By: | Tamara Oldaker |
| Project Location: | NONE GIVEN           |                     |                |

**Sample ID: SOUTH (H701207-26)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: BF |      |            |               |       |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*       | <0.050 | 0.050           | 05/08/2017 | ND              | 2.29 | 114        | 2.00          | 1.36  |           |
| Toluene*       | <0.050 | 0.050           | 05/08/2017 | ND              | 2.23 | 111        | 2.00          | 0.391 |           |
| Ethylbenzene*  | 0.063  | 0.050           | 05/08/2017 | ND              | 2.16 | 108        | 2.00          | 0.994 |           |
| Total Xylenes* | <0.150 | 0.150           | 05/08/2017 | ND              | 6.38 | 106        | 6.00          | 1.26  |           |
| Total BTX      | <0.300 | 0.300           | 05/08/2017 | ND              |      |            |               |       |           |

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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            | 05/08/2017 | ND              | 432 | 108        | 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            | 05/06/2017 | ND              | 165 | 82.4       | 200           | 3.75 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 05/06/2017 | ND              | 183 | 91.5       | 200           | 7.50 |           |

Surrogate: 1-Chlorooctane 73.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 97.0 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

### 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. |
| 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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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

113

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: GOVERNMENT AC 13 #5TH

Project Location:

P.O. #:

Company:

Attn:

Address:

City:

State:

Phone #:

Fax #:

FOR LAB USE ONLY

Sample Name: SEFF CRNELAS

Lab I.D. H701207

Sample I.D. SP101

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

MATRIX

PRESERV

SAMPLING

TPH

BTEX

CL-

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising from this contract or for the amount paid by the client for the analyses, all claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: [Signature]

Date: 5-4-17

Time: 2:51

Received By: [Signature]

Date: 5-4-17

Time: 4:55

Relinquished By: [Signature]

Date: 5-4-17

Time: 11:41

Received By: [Signature]

Date: 5-4-17

Time: 10:45

Delivered By: (Circle One) Sampler - UPS - Bus - Other:

Sample Condition

CHECKED BY: (Initials)

Phone Result:

Fax Result:

REMARKS:

+ Cardinal cannot accept verbal changes. Please fax written changes to 505-555-2771







# CARDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

343

### BILL TO

### ANALYSIS REQUEST

P.O. #:

Company:

Attn:

Address:

City:

State:

Zip:

Phone #:

Fax #:

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: GOVERNMENT AC 13# 5H

Sampler Name:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H7D1207

SP 100 lb.  
21  
22  
23  
24  
25  
26  
NORTH  
EAST  
WEST  
SOUTH

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

DATE TIME

TPH  
BTEX  
CL

Relinquished By:

Date:

Time:

Received By:

REMARKS:

Phone Result:

Yes No

Add'l Phone #:

Add'l Fax #:

Relinquished By:

Date:

Time:

Received By:

REMARKS:

Phone Result:

Yes No

Add'l Phone #:

Add'l Fax #:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

-11.46

Sample Condition

Cool

Intact

Yes

No

Checked By:

(Initials)

10.475

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



**From:** Bratcher, Mike, EMNRD  
**To:** [Cliff Brunson](#); [Shelly Tucker](#)  
**Cc:** [Wade Dittrich](#); [Jennifer\\_Smith@oxy.com](mailto:Jennifer_Smith@oxy.com); [Weaver, Crystal, EMNRD](#); [Ken Swinney](#); [Jennifer Gilkey](#); [Kathy Purvis](#)  
**Subject:** RE: OXY Government AC 13 Federal #5H (2RP-4180) - Delineation Workplan  
**Date:** Thursday, September 21, 2017 7:40:54 AM

---

RE: OXY USA \* Government AC 13 5H \* 2RP-4180 \* DOR: 4/14/17

Cliff,

Your proposal for the above referenced release is approved. Federal sites will require like approval from BLM. Please advise once remedial activities have been scheduled.

Mike Bratcher  
NMOCD District 2  
811 South First Street  
Artesia, NM 88210  
575-748-1283 Ext 108

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:** Thursday, September 14, 2017 6:53 PM  
**To:** Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; Shelly Tucker <[stucker@blm.gov](mailto:stucker@blm.gov)>  
**Cc:** Wade Dittrich <[Wade\\_Dittrich@oxy.com](mailto:Wade_Dittrich@oxy.com)>; [Jennifer\\_Smith@oxy.com](mailto:Jennifer_Smith@oxy.com); Weaver, Crystal, EMNRD <[Crystal.Weaver@state.nm.us](mailto:Crystal.Weaver@state.nm.us)>; 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:** OXY Government AC 13 Federal #5H (2RP-4180) - Delineation Workplan

Mike and Shelly,

Please find the attached Delineation Workplan and remediation proposal for the OXY Government AC 13 Federal #5H (2RP-4180). OXY is requesting that you review this plan and is looking forward to both the OCD's and BLM's approval. Mike, this plan is one we discussed recently.

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

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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:** Tucker, Shelly  
**To:** [Bratcher, Mike, EMNRD](#)  
**Cc:** [Cliff Brunson](#); [Wade Dittrich](#); [Jennifer.Smith@oxy.com](#); [Weaver, Crystal, EMNRD](#); [Ken Swinney](#); [Jennifer Gilkey](#); [Kathy Purvis](#)  
**Subject:** Re: OXY Government AC 13 Federal #5H (2RP-4180) - Delineation Workplan  
**Date:** Tuesday, October 3, 2017 4:20:28 PM

---

## BLM concurs with NMOCD approval.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

*Shelly J Tucker*

Environmental Protection Specialist  
O&G Spill/Release Coordinator

Bureau of Land Management  
620 E. Greene St  
Carlsbad, NM 88220

575.234.5905 - Direct  
575.361.0084 - Cellular  
575.234.6235 - Emergency Spill Number

[stucker@blm.gov](mailto:stucker@blm.gov)

The **BLM acceptance/approval does not** relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment or if the location fails to reclaim properly. In such an event that the location does not revegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until the contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state or local laws/regulations.

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On Thu, Sep 21, 2017 at 7:39 AM, Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)> wrote:

RE: OXY USA \* Government AC 13 5H \* 2RP-4180 \* DOR: 4/14/17

Cliff,

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Mike Bratcher

NMOCD District 2

[811 South First Street](#)

[Artesia, NM 88210](#)

[575-748-1283](#) Ext 108

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---

**From:** Cliff Brunson [mailto:[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)]

**Sent:** Thursday, September 14, 2017 6:53 PM

**To:** Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; Shelly Tucker <[stucker@blm.gov](mailto:stucker@blm.gov)>

**Cc:** Wade Dittrich <[Wade\\_Dittrich@oxy.com](mailto:Wade_Dittrich@oxy.com)>; Jennifer Smith <[Jennifer\\_Smith@oxy.com](mailto:Jennifer_Smith@oxy.com)>; Weaver, Crystal, EMNRD <[Crystal.Weaver@state.nm.us](mailto:Crystal.Weaver@state.nm.us)>; 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:** OXY Government AC 13 Federal #5H (2RP-4180) - Delineation Workplan

Mike and Shelly,

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If you have any questions, please let me know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS

President

BBC International, Inc.

World-Wide Environmental Specialists

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Hobbs, NM 88241-0805 USA

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[1324 W. Marland St.](#)

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