

From: [Dittrich, John W](#)
To: Crystal.Weaver@state.nm.us; mike.bratcher@state.nm.us
Cc: stucker@blm.gov; [Smith, Jennifer A](#)
Subject: Cedar Canyon 16 St.#8H
Date: Thursday, July 13, 2017 12:53:00 PM
Attachments: [Closure report, Cedar Canyon 16 State #8H.PDF](#)
[Final C141.pdf](#)

All,

Attached is the **closure report** and **final C-141** for the **CEDAR CANYON 16 St.#8H** that occurred on **11-11-2015---2rp-3441**.

Please let me know if you have any questions.

Wade Dittrich

Environmental Coordinator

Oxy Permian-New Mexico

575.390.2828 cell

Wade_Dittrich@Oxy.com

Closure Report

Site Description

| | |
|--------------------|-------------------------------|
| Site Name: | Cedar Canyon 16 State #8H |
| Company: | Oxy Permian Ltd. |
| Legal Description: | U/L A, Section 16, T24S, R29E |
| County: | Eddy County, NM |
| GPS Coordinates: | N 32.22223° W 103.98106° |

Release Data

| | |
|--------------------|------------------------------------|
| Date of Release: | 11/11/2015 |
| Type of Release: | Oil and produced water |
| Source of Release: | Discharge fire on suction line |
| Volume of Release: | 5 bbls oil. 40 bbls produced water |
| Volume Recovered: | 0 bbls |

Remediation Specifications

| | | |
|-------------------------|---|---|
| Remediation Parameters: | Excavate the entire spill area to a depth of 4 feet. Then place a 20mil liner in the excavation. Backfill the site with clean soil. | |
| Remediation Activities: | 2016 | |
| Plan Sent to OCD: | 04/21/2016 | Email from Cliff Brunson to Mike Bratcher |
| OCD Approval of Plan: | 04/28/2016 | Email from Mike Bratcher to Cliff Brunson |
| Plan Sent to BLM: | n/a | n/a |
| BLM Approval of Plan: | n/a | n/a |

Supporting Documentation

| | |
|------------------|--|
| Initial C-141 | Signed 12/09/2015 |
| Final C-141 | Upon completion |
| Site Diagram | December 2015 |
| Groundwater Plot | 75'-100' |
| TOPO Maps | December 2015 |
| Lab Summary | 01/14/2016 |
| Lab Analysis | 01/14/2016 |
| Correspondence | Request and approval of remediation plan via email |

Request for Closure

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

Casey Summers, NM Environmental Advisor

06/20/2017

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

| | | | |
|-----------------|----------------------------------|---------------|----------------------|
| Name of Company | Oxy Permian Ltd. | Contact | Dusty Wilson |
| Address | 6 Desta Drive, Midland, TX 79705 | Telephone No. | 432-685-5771 |
| Facility Name | Cedar Canyon 16 State #8H | Facility Type | Well |
| Surface Owner | State | Mineral Owner | API No. 30-015-41596 |

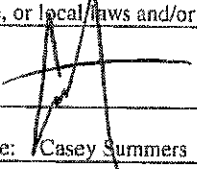
LOCATION OF RELEASE

| | | | | | | | | |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
| A | 16 | 24S | 29E | | | | | Eddy |

Latitude N 32.22223°

Longitude N 103.98106°

NATURE OF RELEASE

| | | | | | |
|--|---|---|---------------------------------------|-----------------------------------|--------|
| Type of Release | Oil and Produced water | Volume of Release | 5 bbls oil, 40 bbls produced water | Volume Recovered | 0 bbls |
| Source of Release | Discharge fire on suction line | Date and Hour of Occurrence | 11/11/15 | Date and Hour of Discovery | |
| Was Immediate Notice Given? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? | Heather Patterson, Mike Bratcher | | |
| By Whom? | Kathy Purvis @ BBC International | Date and Hour | 11/16/15 @ 11:53 am | | |
| 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.* | | | | | |
| A static discharge fire on the gas compressor suction line caused 5 bbls of oil and 40 bbls of produced water to leak onto the ground. No fluids were recovered and the line was repaired/replaced. | | | | | |
| Describe Area Affected and Cleanup Action Taken.* | | | | | |
| The affected area is approximately 55' x 80' off location near the trench. Remediation will be completed in accordance with the remediation plan approved by NMOCD. | | | | | |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. | | | | | |
| Signature:  | | OIL CONSERVATION DIVISION | | | |
| Printed Name: Casey Summers | | Approved by Environmental Specialist: | | | |
| Title: NM Environmental Advisor | | Approval Date: | | Expiration Date: | |
| E-mail Address: casey_summers@oxy.com | | Conditions of Approval: | | Attached <input type="checkbox"/> | |
| Date: 12-9-15 Phone: (575)513-8289 | | | | | |

* Attach Additional Sheets If Necessary

Oxy, Cedar Canyon 16 State #8H

Leak date: 11/11/2015
Eddy County, NM
API# 30-015-41596
RP# 2RP-3441

Legend

- Sample points
- Spill Area



Google Earth

Oxy, Cedar Canyon 16 State #8H

Sample points, hand auger

SP1, N 32.22220 W-103.98100

SP2, N 32.22209 W-103.98100

A topographic map of the 24S29E area in the Grand Staircase-Escalante National Monument. The map features a grid system with a blue star marking a specific location. The terrain is depicted with contour lines, and various geographical features are shown, including a large body of water on the left and a road on the right. The map is labeled with '24S29E' and '100'.



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 |
|-----------------------------------|------|---------------|--------|------|------|-----|-----|-----|-----|--------|----------|----------------------|-----------|------------|--------------|
| C_00863 | | | ED | 3 | 3 | 1 | 16 | 24S | 29E | 594524 | 3565091* | <input type="text"/> | 1404 | 220 | |
| C_00863.CLW199506 | O | | ED | 3 | 3 | 1 | 16 | 24S | 29E | 594524 | 3565091* | <input type="text"/> | 1404 | 220 | |

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 595829

Northing (Y): 3565611

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.

6/20/17 3:26 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

| | | | | | |
|----------------------------------|---------|--------|---------|----------|----------|
| Public Land Survey System (PLSS) | | | | | |
| Q64: | Q16: NE | Q4: NE | Sec: 16 | Tws: 24S | Rng: 29E |

| | | | | | |
|---------------------------------------|----|----|----|-------|--|
| State Plane Coordinate System - NAD27 | | | | | |
| X: | ft | Y: | ft | Zone: | |

| | | | | | |
|---------------------------------------|----|----|----|-------|--|
| State Plane Coordinate System - NAD83 | | | | | |
| X: | ft | Y: | ft | Zone: | |

| | | | | | |
|-------------------------|----------|---|----------|---|------------|
| Degrees/Minutes/Seconds | | | | | |
| Longitude (X): | Degrees: | ° | Minutes: | ' | Seconds: " |
| Latitude (Y): | Degrees: | ° | Minutes: | ' | Seconds: " |

| | | | | | |
|--------------|------|---------------|------|-------|--|
| UTM - NAD27 | | | | | |
| Easting (X): | mtrs | Northing (Y): | mtrs | Zone: | |

SUBMIT

| | | | | | |
|---|----------|------|---------------|-----------|------|
| All Conversion Results are displayed as <u>NAD 1983 UTM Zone 13</u> | | | | | |
| Easting (X): | 595829.0 | mtrs | Northing (Y): | 3565611.0 | mtrs |
| ~~ Please keep screen open to copy UTM values for Reports. ~~ | | | | | |

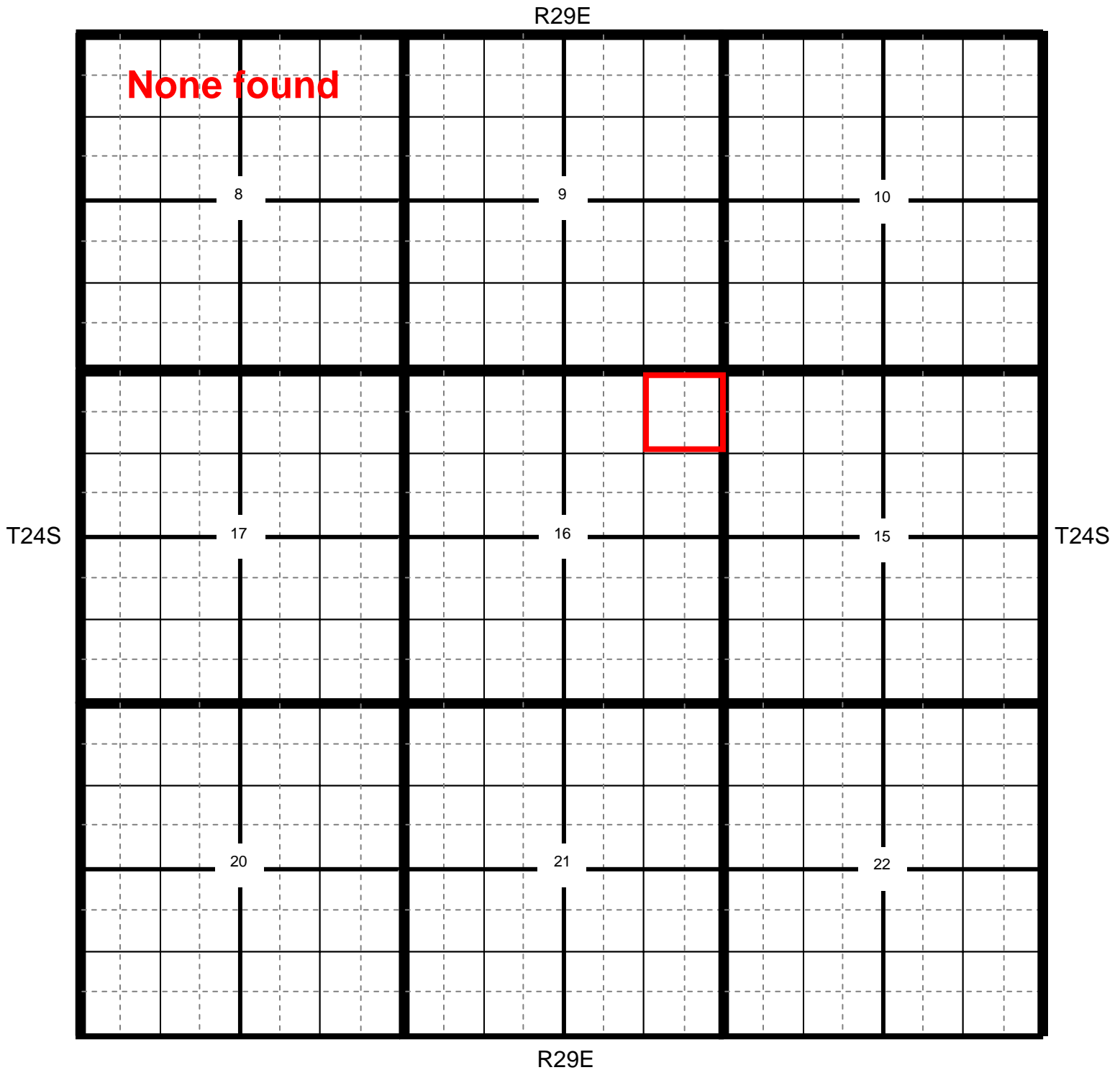


Groundwater Plot

Oxy Cedar Canyon 16 State #8H

County
EddyUnit Letter
ASection
16Township
24SRange
29E

Trend Map 75'-100'



* Location

● OCD

● USGS

● SEO

● All Databases



Section Quarters

Oxy Cedar Canyon 16 State #8H

| | | | | |
|-----------------------|-------------------------|----------------------|------------------------|---------------------|
| County Eddy | Unit Letter A | Section 16 | Township 24S | Range 29E |
|-----------------------|-------------------------|----------------------|------------------------|---------------------|

Trend Map 75'-100'

1

2

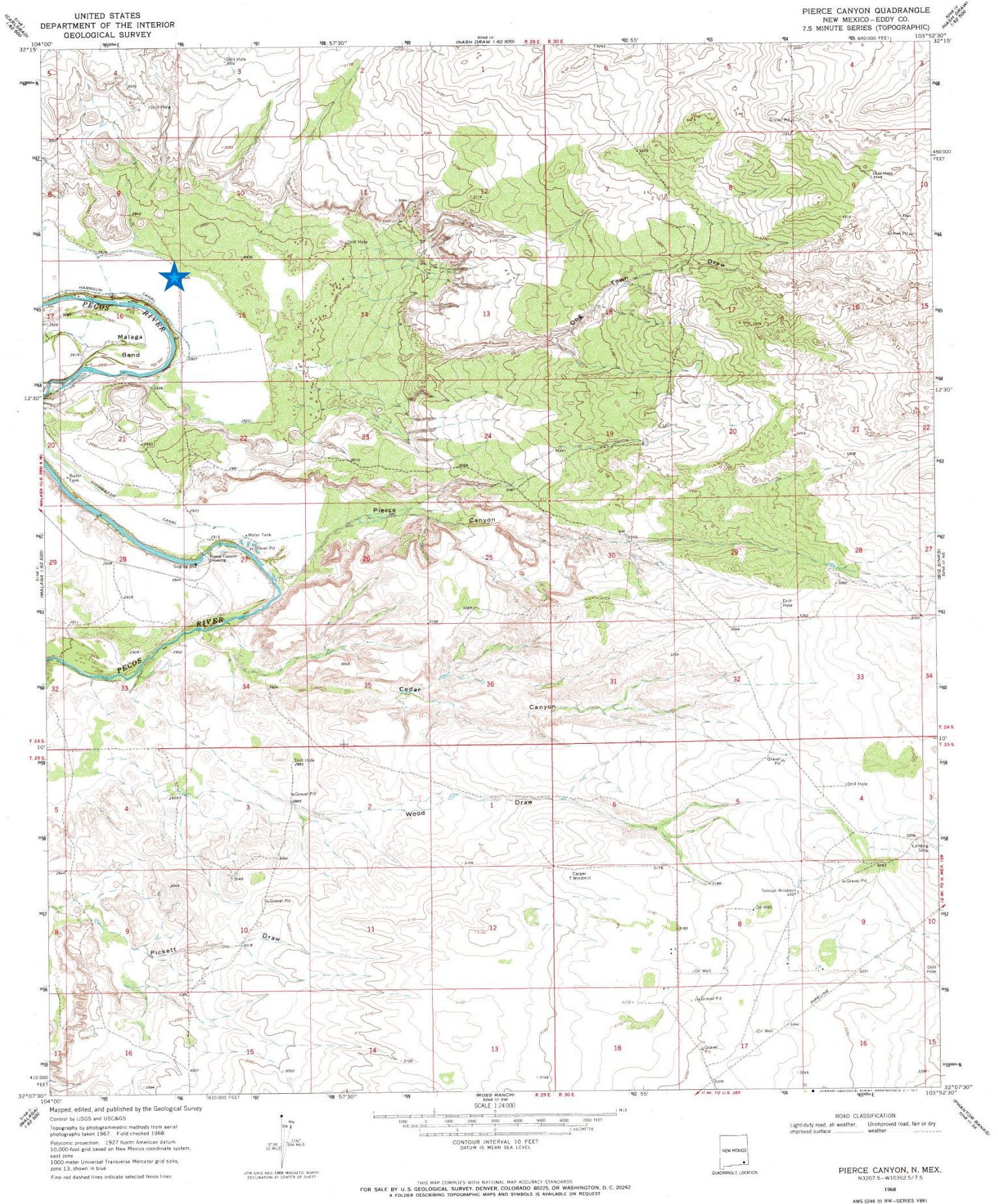
| | | | |
|----------------------------|---------------|---------------|---------------|
| NW/NW None found | NE/NW | NW/NE | NE/NE |
| Unit Letter D | Unit Letter C | Unit Letter B | Unit Letter A |
| SW/NW | SE/NW | SW/NE | SE/NE |
| Unit Letter E | Unit Letter F | Unit Letter G | Unit Letter H |
|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

3

4

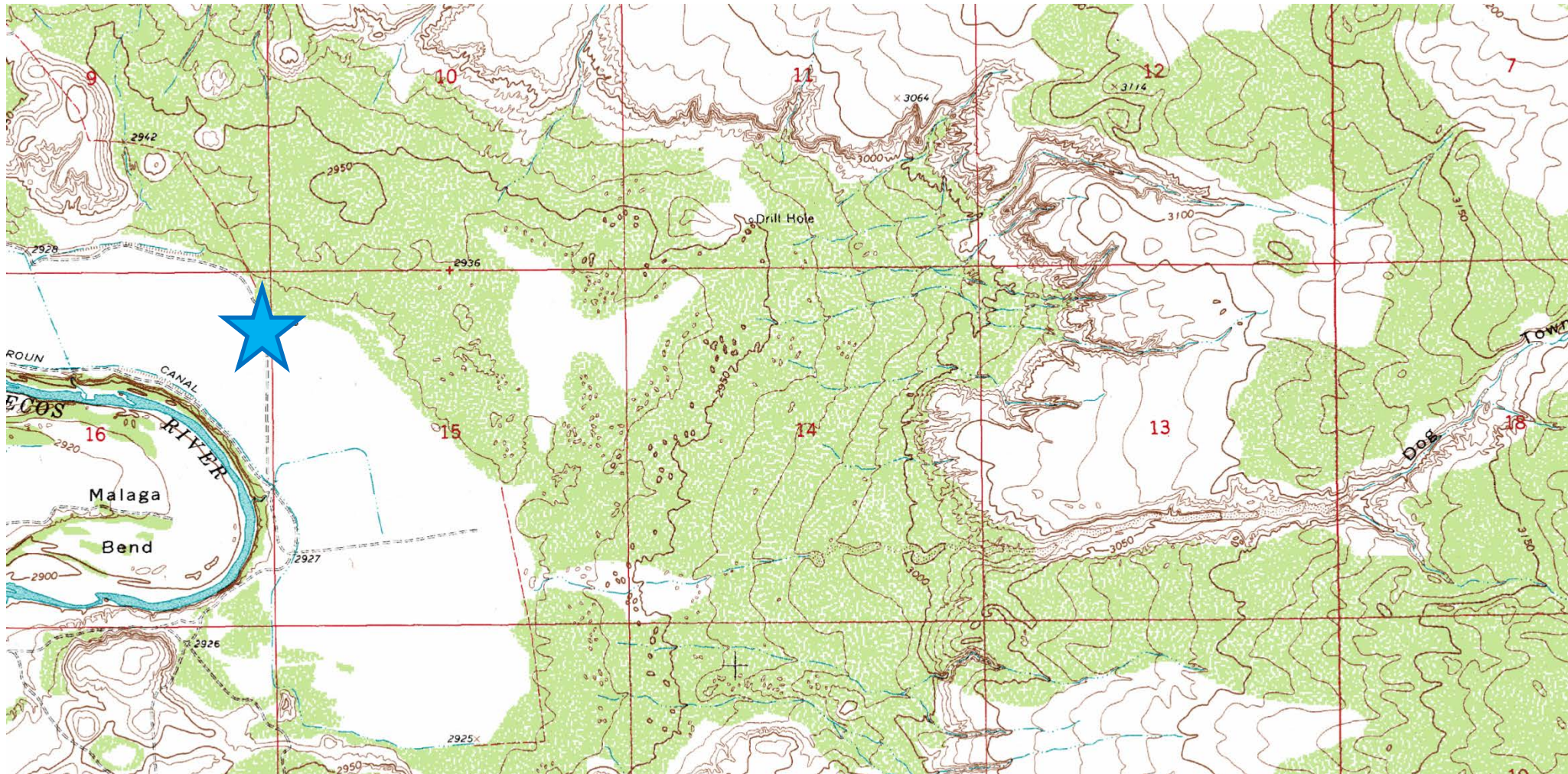
✳ Location
 ● OCD
 ● USGS
 ● SEO
 ● All Databases

Cedar Canyon 16 State #8H



Oxy

Cedar Canyon 16 State #8H



**Laboratory Analytical Results Summary
CEDAR CANYON 16 STATE #8H**

| | | Sample | SP1 @ 1' | SP1 @ 3' | SP1 @ 5' | SP1 @ 7' | SP1 @ 9' | SP1 @ 11' | SP1 @ 13' |
|----------------------|------------|--------|-------------|-------------|------------|------------|-------------|------------|-----------|
| Analyte | Method | Date | 1/14/16 | 1/14/16 | 1/14/16 | 1/14/16 | 1/14/16 | 1/14/16 | 1/14/16 |
| | | | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| Benzene | BTEX 8021B | | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| Toluene | BTEX 8021B | | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| Ethylbenzene | BTEX 8021B | | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| Total Xylenes | BTEX 8021B | | <0.150 | <0.150 | <0.150 | <0.150 | <0.150 | <0.150 | <0.150 |
| Total BTEX | BTEX 8021B | | <0.300 | <0.300 | <0.300 | <0.300 | <0.300 | <0.300 | <0.300 |
| Chloride | SM4500Cl-B | | 5920 | 4960 | 832 | 704 | 1760 | 448 | 96 |
| GRO | TPH 8015M | | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| DRO | TPH 8015M | | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |

| | | Sample | SP2 @ 1' | SP2 @ 3' | SP2 @ 5' | SP2 @ 7' | SP2 @ 9' | SP2 @ 11' | SP2 @ 13' |
|----------------------|------------|--------|--------------|-------------|-------------|------------|-------------|------------|-----------|
| Analyte | Method | Date | 1/14/16 | 1/14/16 | 1/14/16 | 1/14/16 | 1/14/16 | 1/14/16 | 1/14/16 |
| | | | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg | mg/Kg |
| Benzene | BTEX 8021B | | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| Toluene | BTEX 8021B | | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| Ethylbenzene | BTEX 8021B | | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| Total Xylenes | BTEX 8021B | | <0.150 | <0.150 | <0.150 | <0.150 | <0.150 | <0.150 | <0.150 |
| Total BTEX | BTEX 8021B | | <0.300 | <0.300 | <0.300 | <0.300 | <0.300 | <0.300 | <0.300 |
| Chloride | SM4500Cl-B | | 10100 | 6660 | 4320 | 912 | 1700 | 480 | 32 |
| GRO | TPH 8015M | | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 | <10.0 |
| DRO | TPH 8015M | | 11 | <10.0 | 23.3 | <10.0 | <10.0 | <10.0 | <10.0 |



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

January 21, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CEDAR CANYON 16 STATE #8H

Enclosed are the results of analyses for samples received by the laboratory on 01/18/16 10:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|---------------------------|---------------------|---------------|
| Received: | 01/18/2016 | Sampling Date: | 01/14/2016 |
| Reported: | 01/21/2016 | Sampling Type: | Soil |
| Project Name: | CEDAR CANYON 16 STATE #8H | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | MALAGA, NM | | |

Sample ID: SP 1 @ 1' (H600092-01)

| 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 | 01/18/2016 | ND | 1.70 | 84.8 | 2.00 | 8.33 | |
| Toluene* | <0.050 | 0.050 | 01/18/2016 | ND | 1.69 | 84.7 | 2.00 | 7.32 | |
| Ethylbenzene* | <0.050 | 0.050 | 01/18/2016 | ND | 1.55 | 77.6 | 2.00 | 7.40 | |
| Total Xylenes* | <0.150 | 0.150 | 01/18/2016 | ND | 4.86 | 81.0 | 6.00 | 6.60 | |
| Total BTX | <0.300 | 0.300 | 01/18/2016 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.6-140

| Chloride, SM4500Cl-B | | | mg/kg | | Analyzed By: AP | | | | |
|----------------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 5920 | 16.0 | 01/18/2016 | ND | 432 | 108 | 400 | 3.77 | |

| TPH 8015M | | | mg/kg | | Analyzed By: MS | | | | |
|--------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 01/18/2016 | ND | 181 | 90.3 | 200 | 5.02 | |
| DRO >C10-C28 | <10.0 | 10.0 | 01/18/2016 | ND | 177 | 88.6 | 200 | 5.42 | |

Surrogate: 1-Chlorooctane 86.0 % 35-147

Surrogate: 1-Chlorooctadecane 90.9 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|---------------------------|---------------------|---------------|
| Received: | 01/18/2016 | Sampling Date: | 01/14/2016 |
| Reported: | 01/21/2016 | Sampling Type: | Soil |
| Project Name: | CEDAR CANYON 16 STATE #8H | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | MALAGA, NM | | |

Sample ID: SP 1 @ 3' (H600092-02)

| 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 | 01/18/2016 | ND | 1.70 | 84.8 | 2.00 | 8.33 | | |
| Toluene* | <0.050 | 0.050 | 01/18/2016 | ND | 1.69 | 84.7 | 2.00 | 7.32 | | |
| Ethylbenzene* | <0.050 | 0.050 | 01/18/2016 | ND | 1.55 | 77.6 | 2.00 | 7.40 | | |
| Total Xylenes* | <0.150 | 0.150 | 01/18/2016 | ND | 4.86 | 81.0 | 6.00 | 6.60 | | |
| Total BTEx | <0.300 | 0.300 | 01/18/2016 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.6-140

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 4960 | 16.0 | 01/18/2016 | ND | 432 | 108 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 01/18/2016 | ND | 181 | 90.3 | 200 | 5.02 | |
| DRO >C10-C28 | <10.0 | 10.0 | 01/18/2016 | ND | 177 | 88.6 | 200 | 5.42 | |

Surrogate: 1-Chlorooctane 92.9 % 35-147

Surrogate: 1-Chlorooctadecane 90.3 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|---------------------------|---------------------|---------------|
| Received: | 01/18/2016 | Sampling Date: | 01/14/2016 |
| Reported: | 01/21/2016 | Sampling Type: | Soil |
| Project Name: | CEDAR CANYON 16 STATE #8H | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | MALAGA, NM | | |

Sample ID: SP 1 @ 5' (H600092-03)

| 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 | 01/18/2016 | ND | 1.70 | 84.8 | 2.00 | 8.33 | | |
| Toluene* | <0.050 | 0.050 | 01/18/2016 | ND | 1.69 | 84.7 | 2.00 | 7.32 | | |
| Ethylbenzene* | <0.050 | 0.050 | 01/18/2016 | ND | 1.55 | 77.6 | 2.00 | 7.40 | | |
| Total Xylenes* | <0.150 | 0.150 | 01/18/2016 | ND | 4.86 | 81.0 | 6.00 | 6.60 | | |
| Total BTX | <0.300 | 0.300 | 01/18/2016 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 832 | 16.0 | 01/18/2016 | ND | 432 | 108 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 01/18/2016 | ND | 181 | 90.3 | 200 | 5.02 | |
| DRO >C10-C28 | <10.0 | 10.0 | 01/18/2016 | ND | 177 | 88.6 | 200 | 5.42 | |

Surrogate: 1-Chlorooctane 92.0 % 35-147

Surrogate: 1-Chlorooctadecane 95.6 % 28-171

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Analytical Results For:

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

| | | | |
|-------------------|---------------------------|---------------------|---------------|
| Received: | 01/18/2016 | Sampling Date: | 01/14/2016 |
| Reported: | 01/21/2016 | Sampling Type: | Soil |
| Project Name: | CEDAR CANYON 16 STATE #8H | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | MALAGA, NM | | |

Sample ID: SP 1 @ 7' (H600092-04)

| 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 | 01/18/2016 | ND | 1.70 | 84.8 | 2.00 | 8.33 | | |
| Toluene* | <0.050 | 0.050 | 01/18/2016 | ND | 1.69 | 84.7 | 2.00 | 7.32 | | |
| Ethylbenzene* | <0.050 | 0.050 | 01/18/2016 | ND | 1.55 | 77.6 | 2.00 | 7.40 | | |
| Total Xylenes* | <0.150 | 0.150 | 01/18/2016 | ND | 4.86 | 81.0 | 6.00 | 6.60 | | |
| Total BTEx | <0.300 | 0.300 | 01/18/2016 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 704 | 16.0 | 01/18/2016 | ND | 432 | 108 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 01/18/2016 | ND | 181 | 90.3 | 200 | 5.02 | |
| DRO >C10-C28 | <10.0 | 10.0 | 01/18/2016 | ND | 177 | 88.6 | 200 | 5.42 | |

Surrogate: 1-Chlorooctane 87.6 % 35-147

Surrogate: 1-Chlorooctadecane 88.0 % 28-171

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

| | | | |
|-------------------|---------------------------|---------------------|---------------|
| Received: | 01/18/2016 | Sampling Date: | 01/14/2016 |
| Reported: | 01/21/2016 | Sampling Type: | Soil |
| Project Name: | CEDAR CANYON 16 STATE #8H | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | MALAGA, NM | | |

Sample ID: SP 1 @ 9' (H600092-05)

| 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 | 01/19/2016 | ND | 1.70 | 84.8 | 2.00 | 8.33 | | |
| Toluene* | <0.050 | 0.050 | 01/19/2016 | ND | 1.69 | 84.7 | 2.00 | 7.32 | | |
| Ethylbenzene* | <0.050 | 0.050 | 01/19/2016 | ND | 1.55 | 77.6 | 2.00 | 7.40 | | |
| Total Xylenes* | <0.150 | 0.150 | 01/19/2016 | ND | 4.86 | 81.0 | 6.00 | 6.60 | | |
| Total BTEx | <0.300 | 0.300 | 01/19/2016 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.6-140

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 1760 | 16.0 | 01/18/2016 | ND | 432 | 108 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 01/18/2016 | ND | 181 | 90.3 | 200 | 5.02 | |
| DRO >C10-C28 | <10.0 | 10.0 | 01/18/2016 | ND | 177 | 88.6 | 200 | 5.42 | |

Surrogate: 1-Chlorooctane 86.4 % 35-147

Surrogate: 1-Chlorooctadecane 88.2 % 28-171

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

| | | | |
|-------------------|---------------------------|---------------------|---------------|
| Received: | 01/18/2016 | Sampling Date: | 01/14/2016 |
| Reported: | 01/21/2016 | Sampling Type: | Soil |
| Project Name: | CEDAR CANYON 16 STATE #8H | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | MALAGA, NM | | |

Sample ID: SP 1 @ 11' (H600092-06)

| 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 | 01/20/2016 | ND | 1.77 | 88.3 | 2.00 | 1.48 | |
| Toluene* | <0.050 | 0.050 | 01/20/2016 | ND | 1.75 | 87.7 | 2.00 | 0.520 | |
| Ethylbenzene* | <0.050 | 0.050 | 01/20/2016 | ND | 1.61 | 80.4 | 2.00 | 1.16 | |
| Total Xylenes* | <0.150 | 0.150 | 01/20/2016 | ND | 4.99 | 83.2 | 6.00 | 1.16 | |
| Total BTX | <0.300 | 0.300 | 01/20/2016 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.6-140

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 448 | 16.0 | 01/18/2016 | ND | 432 | 108 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 01/18/2016 | ND | 181 | 90.3 | 200 | 5.02 | |
| DRO >C10-C28 | <10.0 | 10.0 | 01/18/2016 | ND | 177 | 88.6 | 200 | 5.42 | |

Surrogate: 1-Chlorooctane 82.5 % 35-147

Surrogate: 1-Chlorooctadecane 86.6 % 28-171

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

| | | | |
|-------------------|---------------------------|---------------------|---------------|
| Received: | 01/18/2016 | Sampling Date: | 01/14/2016 |
| Reported: | 01/21/2016 | Sampling Type: | Soil |
| Project Name: | CEDAR CANYON 16 STATE #8H | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | MALAGA, NM | | |

Sample ID: SP 1 @ 13' (H600092-07)

| 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 | 01/20/2016 | ND | 1.77 | 88.3 | 2.00 | 1.48 | | |
| Toluene* | <0.050 | 0.050 | 01/20/2016 | ND | 1.75 | 87.7 | 2.00 | 0.520 | | |
| Ethylbenzene* | <0.050 | 0.050 | 01/20/2016 | ND | 1.61 | 80.4 | 2.00 | 1.16 | | |
| Total Xylenes* | <0.150 | 0.150 | 01/20/2016 | ND | 4.99 | 83.2 | 6.00 | 1.16 | | |
| Total BTX | <0.300 | 0.300 | 01/20/2016 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 96.0 | 16.0 | 01/18/2016 | ND | 432 | 108 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 01/18/2016 | ND | 181 | 90.3 | 200 | 5.02 | |
| DRO >C10-C28 | <10.0 | 10.0 | 01/18/2016 | ND | 177 | 88.6 | 200 | 5.42 | |

Surrogate: 1-Chlorooctane 87.3 % 35-147

Surrogate: 1-Chlorooctadecane 90.2 % 28-171

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

| | | | |
|-------------------|---------------------------|---------------------|---------------|
| Received: | 01/18/2016 | Sampling Date: | 01/14/2016 |
| Reported: | 01/21/2016 | Sampling Type: | Soil |
| Project Name: | CEDAR CANYON 16 STATE #8H | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | MALAGA, NM | | |

Sample ID: SP 2 @ 1' (H600092-08)

| 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 | 01/20/2016 | ND | 1.77 | 88.3 | 2.00 | 1.48 | | |
| Toluene* | <0.050 | 0.050 | 01/20/2016 | ND | 1.75 | 87.7 | 2.00 | 0.520 | | |
| Ethylbenzene* | <0.050 | 0.050 | 01/20/2016 | ND | 1.61 | 80.4 | 2.00 | 1.16 | | |
| Total Xylenes* | <0.150 | 0.150 | 01/20/2016 | ND | 4.99 | 83.2 | 6.00 | 1.16 | | |
| Total BTEx | <0.300 | 0.300 | 01/20/2016 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

| Chloride, SM4500Cl-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 10100 | 16.0 | 01/18/2016 | ND | 432 | 108 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 01/18/2016 | ND | 181 | 90.3 | 200 | 5.02 | |
| DRO >C10-C28 | 11.0 | 10.0 | 01/18/2016 | ND | 177 | 88.6 | 200 | 5.42 | |

Surrogate: 1-Chlorooctane 86.0 % 35-147

Surrogate: 1-Chlorooctadecane 89.5 % 28-171

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

| | | | |
|-------------------|---------------------------|---------------------|---------------|
| Received: | 01/18/2016 | Sampling Date: | 01/14/2016 |
| Reported: | 01/21/2016 | Sampling Type: | Soil |
| Project Name: | CEDAR CANYON 16 STATE #8H | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | MALAGA, NM | | |

Sample ID: SP 2 @ 3' (H600092-09)

| 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 | 01/20/2016 | ND | 1.77 | 88.3 | 2.00 | 1.48 | | |
| Toluene* | <0.050 | 0.050 | 01/20/2016 | ND | 1.75 | 87.7 | 2.00 | 0.520 | | |
| Ethylbenzene* | <0.050 | 0.050 | 01/20/2016 | ND | 1.61 | 80.4 | 2.00 | 1.16 | | |
| Total Xylenes* | <0.150 | 0.150 | 01/20/2016 | ND | 4.99 | 83.2 | 6.00 | 1.16 | | |
| Total BTX | <0.300 | 0.300 | 01/20/2016 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 6660 | 16.0 | 01/18/2016 | ND | 432 | 108 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 01/18/2016 | ND | 181 | 90.3 | 200 | 5.02 | |
| DRO >C10-C28 | <10.0 | 10.0 | 01/18/2016 | ND | 177 | 88.6 | 200 | 5.42 | |

Surrogate: 1-Chlorooctane 81.9 % 35-147

Surrogate: 1-Chlorooctadecane 85.4 % 28-171

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 Cliff Brunson
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 Fax To: (575) 397-0397

| | | | |
|-------------------|---------------------------|---------------------|---------------|
| Received: | 01/18/2016 | Sampling Date: | 01/14/2016 |
| Reported: | 01/21/2016 | Sampling Type: | Soil |
| Project Name: | CEDAR CANYON 16 STATE #8H | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | MALAGA, NM | | |

Sample ID: SP 2 @ 5' (H600092-10)

| 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 | 01/20/2016 | ND | 1.77 | 88.3 | 2.00 | 1.48 | |
| Toluene* | <0.050 | 0.050 | 01/20/2016 | ND | 1.75 | 87.7 | 2.00 | 0.520 | |
| Ethylbenzene* | <0.050 | 0.050 | 01/20/2016 | ND | 1.61 | 80.4 | 2.00 | 1.16 | |
| Total Xylenes* | <0.150 | 0.150 | 01/20/2016 | ND | 4.99 | 83.2 | 6.00 | 1.16 | |
| Total BTX | <0.300 | 0.300 | 01/20/2016 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 4320 | 16.0 | 01/18/2016 | ND | 432 | 108 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 01/18/2016 | ND | 181 | 90.3 | 200 | 5.02 | |
| DRO >C10-C28 | 23.3 | 10.0 | 01/18/2016 | ND | 177 | 88.6 | 200 | 5.42 | |

Surrogate: 1-Chlorooctane 87.3 % 35-147

Surrogate: 1-Chlorooctadecane 88.1 % 28-171

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

| | | | |
|-------------------|---------------------------|---------------------|---------------|
| Received: | 01/18/2016 | Sampling Date: | 01/14/2016 |
| Reported: | 01/21/2016 | Sampling Type: | Soil |
| Project Name: | CEDAR CANYON 16 STATE #8H | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | MALAGA, NM | | |

Sample ID: SP 2 @ 7' (H600092-11)

| 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 | 01/20/2016 | ND | 1.77 | 88.3 | 2.00 | 1.48 | | |
| Toluene* | <0.050 | 0.050 | 01/20/2016 | ND | 1.75 | 87.7 | 2.00 | 0.520 | | |
| Ethylbenzene* | <0.050 | 0.050 | 01/20/2016 | ND | 1.61 | 80.4 | 2.00 | 1.16 | | |
| Total Xylenes* | <0.150 | 0.150 | 01/20/2016 | ND | 4.99 | 83.2 | 6.00 | 1.16 | | |
| Total BTX | <0.300 | 0.300 | 01/20/2016 | ND | | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 912 | 16.0 | 01/18/2016 | ND | 432 | 108 | 400 | 3.77 | | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 01/18/2016 | ND | 181 | 90.3 | 200 | 5.02 | |
| DRO >C10-C28 | <10.0 | 10.0 | 01/18/2016 | ND | 177 | 88.6 | 200 | 5.42 | |

Surrogate: 1-Chlorooctane 83.7 % 35-147

Surrogate: 1-Chlorooctadecane 84.1 % 28-171

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|---------------------------|---------------------|---------------|
| Received: | 01/18/2016 | Sampling Date: | 01/14/2016 |
| Reported: | 01/21/2016 | Sampling Type: | Soil |
| Project Name: | CEDAR CANYON 16 STATE #8H | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | MALAGA, NM | | |

Sample ID: SP 2 @ 9' (H600092-12)

| 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 | 01/20/2016 | ND | 1.77 | 88.3 | 2.00 | 1.48 | |
| Toluene* | <0.050 | 0.050 | 01/20/2016 | ND | 1.75 | 87.7 | 2.00 | 0.520 | |
| Ethylbenzene* | <0.050 | 0.050 | 01/20/2016 | ND | 1.61 | 80.4 | 2.00 | 1.16 | |
| Total Xylenes* | <0.150 | 0.150 | 01/20/2016 | ND | 4.99 | 83.2 | 6.00 | 1.16 | |
| Total BTX | <0.300 | 0.300 | 01/20/2016 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.6-140

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1700 | 16.0 | 01/18/2016 | ND | 432 | 108 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 01/18/2016 | ND | 181 | 90.3 | 200 | 5.02 | |
| DRO >C10-C28 | <10.0 | 10.0 | 01/18/2016 | ND | 177 | 88.6 | 200 | 5.42 | |

Surrogate: 1-Chlorooctane 79.4 % 35-147

Surrogate: 1-Chlorooctadecane 83.7 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

| | | | |
|-------------------|---------------------------|---------------------|---------------|
| Received: | 01/18/2016 | Sampling Date: | 01/14/2016 |
| Reported: | 01/21/2016 | Sampling Type: | Soil |
| Project Name: | CEDAR CANYON 16 STATE #8H | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | MALAGA, NM | | |

Sample ID: SP 2 @ 11' (H600092-13)

| 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 | 01/20/2016 | ND | 1.77 | 88.3 | 2.00 | 1.48 | |
| Toluene* | <0.050 | 0.050 | 01/20/2016 | ND | 1.75 | 87.7 | 2.00 | 0.520 | |
| Ethylbenzene* | <0.050 | 0.050 | 01/20/2016 | ND | 1.61 | 80.4 | 2.00 | 1.16 | |
| Total Xylenes* | <0.150 | 0.150 | 01/20/2016 | ND | 4.99 | 83.2 | 6.00 | 1.16 | |
| Total BTX | <0.300 | 0.300 | 01/20/2016 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 480 | 16.0 | 01/18/2016 | ND | 432 | 108 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 01/19/2016 | ND | 194 | 96.9 | 200 | 3.69 | |
| DRO >C10-C28 | <10.0 | 10.0 | 01/19/2016 | ND | 179 | 89.5 | 200 | 4.37 | |

Surrogate: 1-Chlorooctane 76.7 % 35-147

Surrogate: 1-Chlorooctadecane 80.1 % 28-171

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

| | | | |
|-------------------|---------------------------|---------------------|---------------|
| Received: | 01/18/2016 | Sampling Date: | 01/14/2016 |
| Reported: | 01/21/2016 | Sampling Type: | Soil |
| Project Name: | CEDAR CANYON 16 STATE #8H | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | MALAGA, NM | | |

Sample ID: SP 2 @ 13' (H600092-14)

| 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 | 01/20/2016 | ND | 1.77 | 88.3 | 2.00 | 1.48 | |
| Toluene* | <0.050 | 0.050 | 01/20/2016 | ND | 1.75 | 87.7 | 2.00 | 0.520 | |
| Ethylbenzene* | <0.050 | 0.050 | 01/20/2016 | ND | 1.61 | 80.4 | 2.00 | 1.16 | |
| Total Xylenes* | <0.150 | 0.150 | 01/20/2016 | ND | 4.99 | 83.2 | 6.00 | 1.16 | |
| Total BTEx | <0.300 | 0.300 | 01/20/2016 | ND | | | | | |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: AP | | | | | |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 01/18/2016 | ND | 432 | 108 | 400 | 3.77 | |

| TPH 8015M | | mg/kg | | Analyzed By: MS | | | | | |
|--------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <10.0 | 10.0 | 01/19/2016 | ND | 194 | 96.9 | 200 | 3.69 | |
| DRO >C10-C28 | <10.0 | 10.0 | 01/19/2016 | ND | 179 | 89.5 | 200 | 4.37 | |

Surrogate: 1-Chlorooctane 78.0 % 35-147

Surrogate: 1-Chlorooctadecane 82.8 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(30) 593-7320 FAX (30) 593-7320

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name:

Project Location:

Sampler Name:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H000032

Handwritten notes:
Sp101
O3
OS
OF
O9
C11
G13
SP201
O5
ID

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE TIME

TIME

MATRIX

PRESERV

SAMPLING

P.O. #:

Company:

Attn:

Address:

City:

State: Zip:

Phone #:

Fax #:

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Relinquished By:

Date:

Received By:

Phone Result:

Fax Result:

Add'l Phone #:

Add'l Fax #:

Reimprised By:

Date:

Received By:

Phone Result:

Fax Result:

Add'l Phone #:

Add'l Fax #:

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

Sample Condition
☒ Cool ☒ Intact
☐ Yes ☐ No

CHECKED BY:
(Initials)

REMARKS:



ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

Kathy Purvis

From: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Sent: Thursday, April 28, 2016 10:29 AM
To: Cliff Brunson
Cc: Patterson, Heather, EMNRD; Casey Summers; Dusty Wilson; Jennifer_Duarte@oxy.com; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: RE: OXY - Cedar Canyon 16 State #8H- Remediation Plan

RE: OXY USA * Cedar Canyon 16-8H * 30-015-41596 * 2RP-3441 * DOR: 11/11/15

Cliff,

Your 4/21/16 proposal for remediation of the above referenced release is approved. Please advise once remedial activities have been scheduled.

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.

If you have any questions or concerns, and for notification, please contact me.

Mike Bratcher
NMOCD District 2
811 S. First Street
Artesia, NM 88210
O: 575-748-1283 X108
C: 575-626-0857
F: 575-748-9720

From: Cliff Brunson [<mailto:cbrunson@bbcinternational.com>]
Sent: Thursday, April 21, 2016 7:51 PM
To: Bratcher, Mike, EMNRD
Cc: Patterson, Heather, EMNRD; Casey Summers; Dusty Wilson; Jennifer_Duarte@oxy.com; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: OXY - Cedar Canyon 16 State #8H- Remediation Plan

Mike,

This e-mail is to confirm our discussion concerning the remediation plan for the Oxy Cedar Canyon 16 State #8H release. I have attached the information packet that we used in our discussion with a cover page describing the remediation plan that we agreed upon.

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

Thanks, Cliff

Cliff P. Brunson, CEI, CRS

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

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No virus found in this message.

Checked by AVG - www.avg.com

Version: 2015.0.6189 / Virus Database: 4563/12123 - Release Date: 04/28/16













Page 40 of 41
Received by OGD: 4/3/2023 3:26:12 PM
Released to Imaging: 4/12/2023 9:16:59 AM

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

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

OPERATOR ☐ Initial Report ☒ Final Report

| | | | |
|-----------------|--------------------------------|---------------|-----------------|
| Name of Company | OXY USA INC | Contact | CASEY L SUMMERS |
| Address | PO BOX 4294; HOUSTON, TX 77210 | Telephone No. | 575-513-8289 |
| Facility Name | CEDAR CANYON 16 STATE #8H | Facility Type | WELL |
| Surface Owner | STATE | Mineral Owner | STATE |
| | | API No. | 30-015-41596 |

LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| A | 16 | 24S | 29E | 1040 | NORTH | 330 | EAST | EDDY |

Latitude N 32.22223° Longitude W 103.98106° NAD83

NATURE OF RELEASE

| | | | | | |
|-----------------------------|---|---|---------------------------------------|----------------------------|--------|
| Type of Release | Oil and Produced water | Volume of Release | 5 bbls oil, 40 bbls produced water | Volume Recovered | 0 bbls |
| Source of Release | Discharge fire on suction line | Date and Hour of Occurrence | 11/11/2015 | Date and Hour of Discovery | |
| Was Immediate Notice Given? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? | Heather Patterson, Mike Bratcher | | |
| By Whom? | Kathy Purvis @ BBC International | Date and Hour | 11/16/15 @ 11:53 AM | | |
| 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.*

A static discharge fire on the gas compressor suction line caused 5 bbls of oil and 40 bbls of produced water to leak onto the ground. No fluids were recovered and the line was repaired/replaced.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 55' x 80' off location near the trench. Remediation was completed in accordance with the remediation plan approved for the release (2RP-3441) by Mike Bratcher of the NMOCD on 4-21-2016.

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

| | | | |
|--|---|-----------------------------------|--|
| Signature:  | OIL CONSERVATION DIVISION | | |
| Printed Name: CASEY L SUMMERS | Approved by Environmental Specialist: Jocelyn Harimon | | |
| Title: ENVIRONMENTAL ADVISOR | Approval Date: 04/12/2023 | Expiration Date: | |
| E-mail Address: casey_summers@oxy.com | Conditions of Approval: | Attached <input type="checkbox"/> | |
| Date: 6-30-17 Phone: 575-513-8289 | None | | |

Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 203577

CONDITIONS

| | |
|--|--|
| Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294 | OGRID: 16696 |
| | Action Number: 203577 |
| | Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF) |

CONDITIONS

| | | |
|------------|-----------|----------------|
| Created By | Condition | Condition Date |
| jharimon | None | 4/12/2023 |