



PHONE (575) 397-6388 • FAX (575) 397- 0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805  
E-MAIL: cbrunson@bbcinternational.com

## DELINEATION/REMEDATION WORKPLAN

### OXY – DIMENSIONS 6 CTB (Leak Dates: 9/12/20 & 9/16/20)

#### Incident Reference #: NRM2028960047 & NRM2028960708

This delineation workplan and remediation proposal addresses the releases associated with Incident Reference #: NRM2028960047 & NRM2028960708.

The following information includes:

1. Appropriate completed and signed C-141 pages.
2. Scaled digital site map with spill area demarcated and leak point identified along with sample point locations and areas of remediation at appropriate depths.
3. GPS information for sample points and sample methodology.
4. Depth to groundwater information (i.e., pdf of OSE search results, USGS search results).
5. Watercourse/features map within 1000 feet.
6. BLM Cave Karst map.
7. FEMA National Flood map.
8. Laboratory analysis results summary table and original laboratory analysis reports.
9. Potentially other pertinent information as necessary for site specific purposes.

***Based on the information included in this package and the NMOCD rules, the following remediation is proposed:***

***OXY will excavate the spill area as depicted on the following site diagram.***

***The leak area near SP1 (green shade on diagram) will be excavated to a depth of 1 foot. The leak area near SP2 (purple shade on diagram) will be excavated to a depth of 2 feet.***

***OXY will collect sidewall and confirmation samples every 200 square feet. The estimated amount of soil to be excavated is 72 cubic yards. The remediation will be completed within 90 days of approval.***

The entire site will then be backfilled with clean soil and revegetated (if warranted) to the standards of the appropriate regulatory agency or private surface owner.

All excavated materials will be disposed of at an NMOCD-approved disposal facility.

Form C-141

Page 3

State of New Mexico  
Oil Conservation Division

|                |               |
|----------------|---------------|
| Incident ID    | NRM2028960047 |
| District RP    |               |
| Facility ID    |               |
| Application ID |               |

**Site Assessment/Characterization***This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

|                                                                                                                                                                                                 |                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| What is the shallowest depth to groundwater beneath the area affected by the release?                                                                                                           | 51 (ft bgs)                                                         |
| Did this release impact groundwater or surface water?                                                                                                                                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?                                                              | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?                                                    | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?                                                                                                | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?                                                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a wetland?                                                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying a subsurface mine?                                                                                                                             | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release overlying an unstable area such as karst geology?                                                                                                        | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within a 100-year floodplain?                                                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

**Characterization Report Checklist:** *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141

State of New Mexico  
Oil Conservation Division

Page 4

|                |               |
|----------------|---------------|
| Incident ID    | NRM2028960047 |
| District RP    |               |
| Facility ID    |               |
| Application ID |               |

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name: Wade Dittrich Title: Environmental Coordinator  
Signature:  Date: 1-5-21  
email: wade\_dittrich@oxy.com Telephone: (575) 390-2828

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Form C-141

Page 5

State of New Mexico  
Oil Conservation Division

|                |               |
|----------------|---------------|
| Incident ID    | NRM2028960047 |
| District RP    |               |
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| Application ID |               |

## Remediation Plan

**Remediation Plan Checklist:** Each of the following items must be included in the plan.

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table I specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** Each of the following items must be confirmed as part of any request for deferral of remediation.

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name: Wade Dittrich Title: Environmental Coordinator  
Signature:  Date: 1-5-21  
email: wade\_dittrich@oxy.com Telephone: (575) 390-2828

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Form C-141

Page 3

State of New Mexico  
Oil Conservation Division

|                |               |
|----------------|---------------|
| Incident ID    | NRM2028960708 |
| District RP    |               |
| Facility ID    |               |
| Application ID |               |

**Site Assessment/Characterization***This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

|                                                                                                                                                                                                 |                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| What is the shallowest depth to groundwater beneath the area affected by the release?                                                                                                           | 51 _____ (ft bgs)                                                   |
| Did this release impact groundwater or surface water?                                                                                                                                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?                                                              | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?                                                    | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
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| Are the lateral extents of the release within a 100-year floodplain?                                                                                                                            | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
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- ☐ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

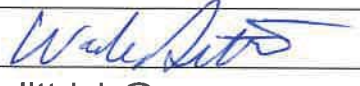
Form C-141

State of New Mexico  
Oil Conservation Division

Page 4

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Printed Name: Wade Dittrich Title: Environmental Coordinator  
Signature:  Date: 1-5-21  
email: wade\_dittrich@oxy.com Telephone: (575) 390-2828

**OCD Only**

Received by: Cristina Eads Date: 02-08-2021



Form C-141

Page 5

State of New Mexico  
Oil Conservation Division

|                |               |
|----------------|---------------|
| Incident ID    | NRM2028960708 |
| District RP    |               |
| Facility ID    |               |
| Application ID |               |

## Remediation Plan

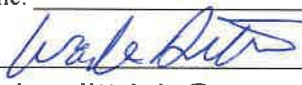
**Remediation Plan Checklist:** Each of the following items must be included in the plan.

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
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- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

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- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

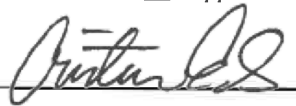
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public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

Printed Name: Wade Dittrich Title: Environmental Coordinator  
 Signature:  Date: 1-5-20  
 email: wade\_dittrich@oxy.com Telephone: (575) 390-2828

**OCD Only**

Received by: Cristina Eads Date: 02-08-2021

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature:  Date: 06-23-2021



# Oxy Dimensions 6 CTB

Leak Date: 9-12-20/9-16-20  
Eddy County, NM  
Incident ID: NRM2028960047/NRM2028960708

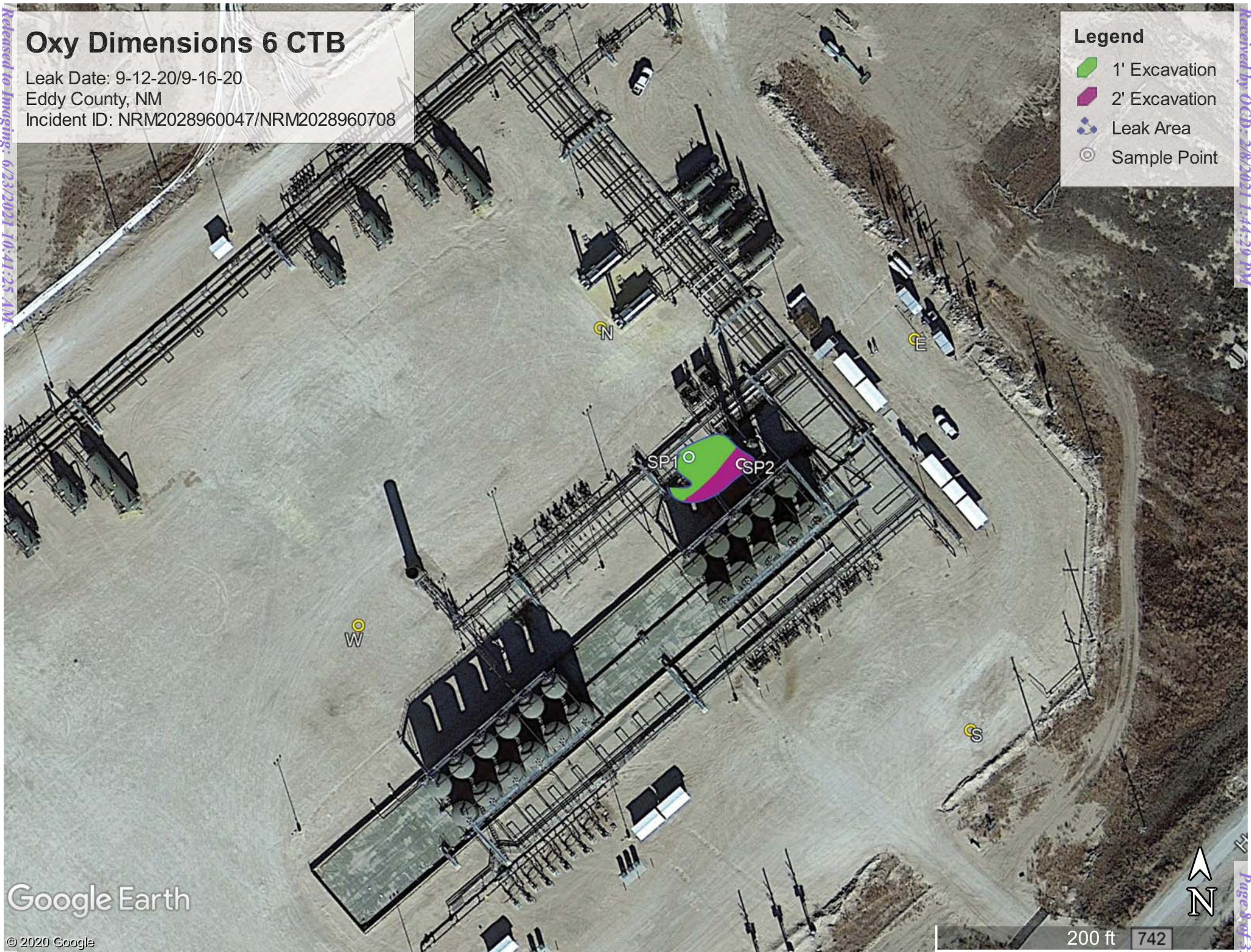
Legend

1' Excavation

2' Excavation

Leak Area

Sample Point



Google Earth

© 2020 Google

200 ft 742





Oxy Dimensions 6 CTB (9-12-20/9-16-20)

Sample Points:

SP1 32.25121 W -104.02471

SP2 32.25120 W -104.02460

North 32.25144 W -104.02489

East 32.25142 W -104.02424

West 32.25091 W -104.02539

South 32.25073 W -104.02412



USGS Home  
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National Water Information System: Web Interface

USGS Water Resources

Data Category:  
Groundwater

Geographic Area:  
New Mexico

GO

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- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 321355104012001

Minimum number of levels = 1  
[Save file of selected sites](#) to local disk for future upload

USGS 321355104012001 24S.29E.07.14444

Eddy County, New Mexico  
Latitude 32°13'55", Longitude 104°01'20" NAD27  
Land-surface elevation 2,983 feet above NAVD88  
The depth of the well is 160 feet below land surface.  
This well is completed in the Castile Formation (312CSTL) local aquifer.

Output formats

Table of data

Tab-separated data

Graph of data

Reselect period

| Date       | Time | ?<br>Water-level<br>date-time<br>accuracy | Water<br>level,<br>feet<br>below<br>land<br>surface | Water<br>level,<br>feet<br>above<br>specific<br>vertical<br>datum | Referenced<br>vertical<br>datum | ?<br>Water-level<br>accuracy | ?<br>Status | ?<br>Method of<br>measurement | ?<br>Measuring<br>agency | ?<br>Source of<br>measurem |
|------------|------|-------------------------------------------|-----------------------------------------------------|-------------------------------------------------------------------|---------------------------------|------------------------------|-------------|-------------------------------|--------------------------|----------------------------|
| 1983-02-01 |      | D                                         | 47.14                                               |                                                                   |                                 | 2                            |             |                               | U                        |                            |
| 1987-10-16 |      | D                                         | 51.84                                               |                                                                   |                                 | 2                            |             |                               | U                        |                            |
| 1988-02-11 |      | D                                         | 52.19                                               |                                                                   |                                 | 2                            |             |                               | U                        |                            |
| 1992-10-20 |      | D                                         | 51.78                                               |                                                                   |                                 | 2                            |             |                               | S                        |                            |

Explanation

| Section                        | Code | Description                                                    |
|--------------------------------|------|----------------------------------------------------------------|
| Water-level date-time accuracy | D    | Date is accurate to the Day                                    |
| Water-level accuracy           | 2    | Water level accuracy to nearest hundredth of a foot            |
| Status                         |      | The reported water-level measurement represents a static level |
| Method of measurement          | S    | Steel-tape measurement.                                        |
| Method of measurement          | U    | Unknown method.                                                |
| Measuring agency               |      | Not determined                                                 |
| Source of measurement          | U    | Source is unknown.                                             |
| Water-level approval status    | A    | Approved for publication -- Processing and review completed.   |

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**Title: Groundwater for New Mexico: Water Levels**

**URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>**

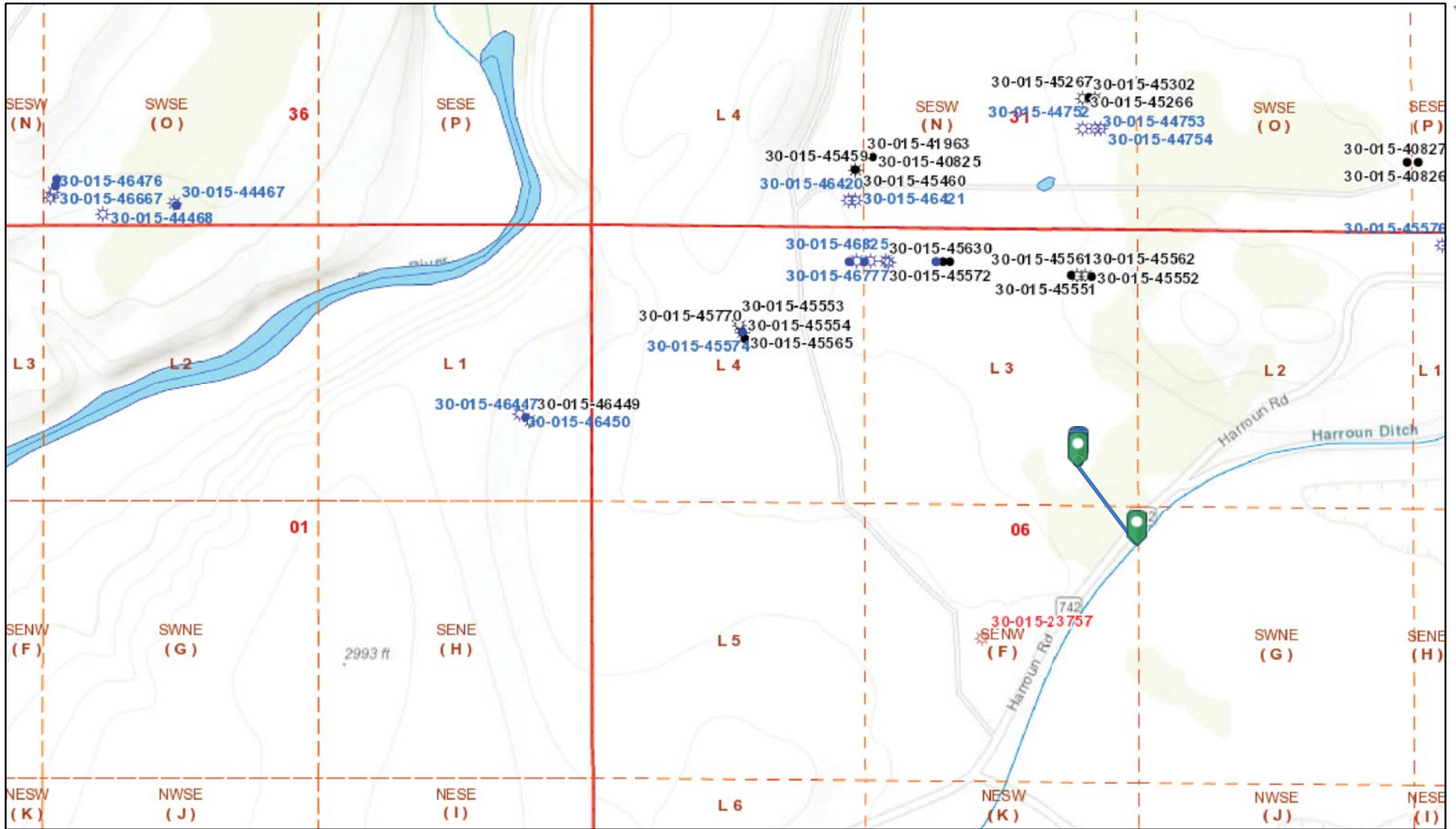
Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2020-01-13 15:57:02 EST

0.23   0.2 nadww02

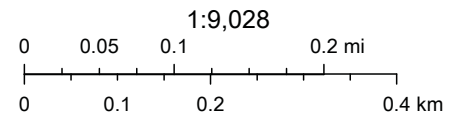


# Oxy Dimensions 6 CTB (9-12-20) 470 ft to h2o



9/22/2020, 11:25:31 AM

- |                     |                              |                  |                              |                      |
|---------------------|------------------------------|------------------|------------------------------|----------------------|
| Wells - Large Scale | ✱ CO2, Cancelled             | ✱ Gas, Active    | ✱ Gas, Temporarily Abandoned | ✱ Injection, Plugged |
| ✱ undefined         | ✱ CO2, New                   | ✱ Gas, Cancelled | ✱ Injection, Active          |                      |
| ✱ Miscellaneous     | ✱ CO2, Plugged               | ✱ Gas, New       | ✱ Injection, Cancelled       |                      |
| ✱ CO2, Active       | ✱ CO2, Temporarily Abandoned | ✱ Gas, Plugged   | ✱ Injection, New             |                      |



Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c)

New Mexico Oil Conservation Division

NM OCD Oil and Gas Map. <http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75>: New Mexico Oil Conservation Division

# Oxy Dimensions 6 CTB

Leak Date: 9-16-2020  
Eddy County, NM  
Incident ID's : NRM2028960047/NRM2028960708

## BLM CAVE KARST MAP

- Legend**
-  Leak Area
  -  Medium Potential



742  
Harroun Rd

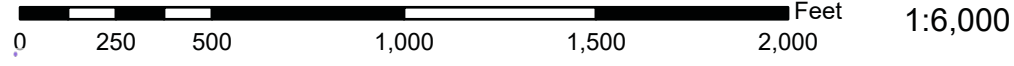
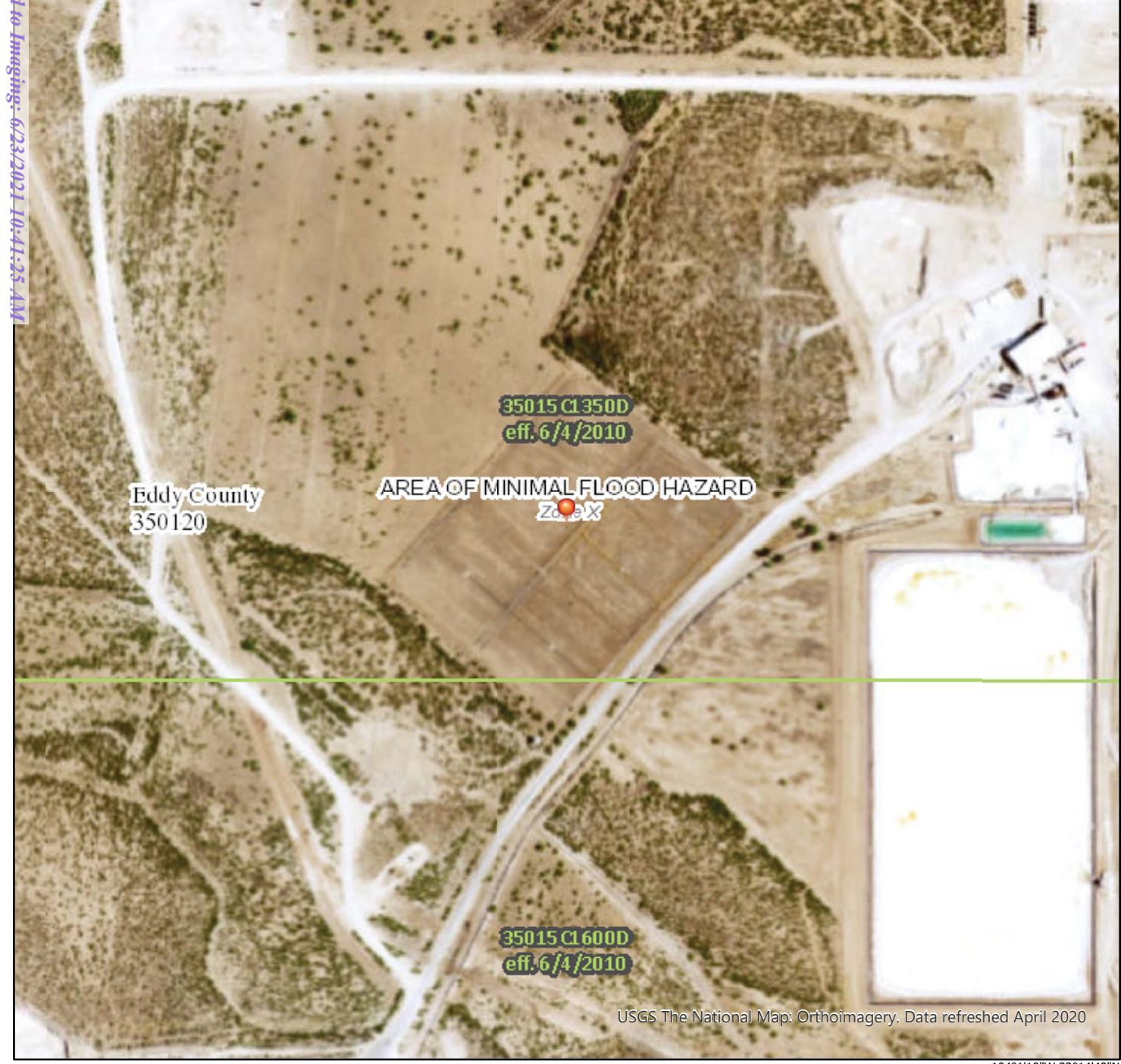




# National Flood Hazard Layer FIRMette



104°1'47"W 32°15'20"N



104°1'10"W 32°14'49"N

### Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

|                             |            |                                                                                                                                                            |
|-----------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SPECIAL FLOOD HAZARD AREAS  |            | Without Base Flood Elevation (BFE)<br>Zone A, V, A99                                                                                                       |
|                             |            | With BFE or Depth Zone AE, AO, AH, VE, AR                                                                                                                  |
|                             |            | Regulatory Floodway                                                                                                                                        |
| OTHER AREAS OF FLOOD HAZARD |            | 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile |
|                             |            | Future Conditions 1% Annual Chance Flood Hazard                                                                                                            |
|                             |            | Area with Reduced Flood Risk due to Levee. See Notes.                                                                                                      |
|                             |            | Area with Flood Risk due to Levee                                                                                                                          |
| OTHER AREAS                 |            | NO SCREEN Area of Minimal Flood Hazard                                                                                                                     |
|                             |            | Effective LOMRs                                                                                                                                            |
| GENERAL STRUCTURES          |            | Area of Undetermined Flood Hazard                                                                                                                          |
|                             |            | Channel, Culvert, or Storm Sewer                                                                                                                           |
| OTHER FEATURES              |            | Levee, Dike, or Floodwall                                                                                                                                  |
|                             |            | Cross Sections with 1% Annual Chance Water Surface Elevation                                                                                               |
|                             |            | Coastal Transect                                                                                                                                           |
|                             |            | Base Flood Elevation Line (BFE)                                                                                                                            |
|                             |            | Limit of Study                                                                                                                                             |
|                             |            | Jurisdiction Boundary                                                                                                                                      |
|                             |            | Coastal Transect Baseline                                                                                                                                  |
|                             |            | Profile Baseline                                                                                                                                           |
|                             |            | Hydrographic Feature                                                                                                                                       |
|                             | MAP PANELS |                                                                                                                                                            |
|                             |            | No Digital Data Available                                                                                                                                  |
|                             |            | Unmapped                                                                                                                                                   |

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/22/2020 at 1:35 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Released to Imaging: 6/23/2021 10:41:25 AM

Received by OCD: 2/8/2021 1:44:29 PM

Page 14 of 32

Laboratory Analytical Results Summary  
Oxy, Dimensions 6 CTB (9-12-20)

|               |            | Sample ID | North @<br>Surface | East @<br>Surface | West @<br>Surface | South @<br>Surface |
|---------------|------------|-----------|--------------------|-------------------|-------------------|--------------------|
| Analyte       | Method     | Date      | 10/12/20           | 10/12/20          | 10/12/20          | 10/12/20           |
|               |            |           | mg/kg              | mg/kg             | mg/kg             | mg/kg              |
| Benzene       | BTEX 8021B |           | <0.050             | <0.050            | <0.050            | <0.050             |
| Toluene       | BTEX 8021B |           | <0.050             | <0.050            | <0.050            | <0.050             |
| Ethylbenzene  | BTEX 8021B |           | <0.050             | <0.050            | <0.050            | <0.050             |
| Total Xylenes | BTEX 8021B |           | <0.150             | <0.150            | <0.150            | <0.150             |
| Total BTEX    | BTEX 8021B |           | <0.300             | <0.300            | <0.300            | <0.300             |
| Chloride      | SM4500Cl-B |           | 192                | 192               | 176               | 192                |
| GRO           | TPH 8015M  |           | <10.0              | <10.0             | <10.0             | <10.0              |
| DRO           | TPH 8015M  |           | <10.0              | <10.0             | <10.0             | <10.0              |
| EXT DRO       | TPH 8015M  |           | <10.0              | <10.0             | <10.0             | <10.0              |

|               |            | Sample ID | SP1 @<br>Surface | SP1 @ 1' | SP1 @ 2' |
|---------------|------------|-----------|------------------|----------|----------|
| Analyte       | Method     | Date      | 10/12/20         | 10/12/20 | 10/12/20 |
|               |            |           | mg/kg            | mg/kg    | mg/kg    |
| Benzene       | BTEX 8021B |           | <0.200           | <0.050   | <0.050   |
| Toluene       | BTEX 8021B |           | 2.37             | <0.050   | <0.050   |
| Ethylbenzene  | BTEX 8021B |           | 1.53             | <0.050   | <0.050   |
| Total Xylenes | BTEX 8021B |           | 16.7             | <0.150   | <0.150   |
| Total BTEX    | BTEX 8021B |           | 20.6             | <0.050   | <0.050   |
| Chloride      | SM4500Cl-B |           | 400              | 32.0     | 112      |
| GRO           | TPH 8015M  |           | 488              | <10.0    | <10.0    |
| DRO           | TPH 8015M  |           | 38700            | 50.4     | 24.3     |
| EXT DRO       | TPH 8015M  |           | 8750             | 29.8     | <10.0    |

|               |            | Sample ID | SP2 @<br>Surface | SP2 @ 1' | SP2 @ 2' | SP2 @ 3' | SP2 @ 4' |
|---------------|------------|-----------|------------------|----------|----------|----------|----------|
| Analyte       | Method     | Date      | 10/13/20         | 10/13/20 | 10/13/20 | 10/13/20 | 10/13/20 |
|               |            |           | mg/kg            | mg/kg    | mg/kg    | mg/kg    | mg/kg    |
| Benzene       | BTEX 8021B |           | 0.180            | <0.050   | <0.050   | <0.050   | <0.050   |
| Toluene       | BTEX 8021B |           | 5.85             | <0.050   | <0.050   | <0.050   | <0.050   |
| Ethylbenzene  | BTEX 8021B |           | 3.50             | <0.050   | <0.050   | <0.050   | <0.050   |
| Total Xylenes | BTEX 8021B |           | 20.2             | <0.150   | <0.150   | <0.150   | <0.150   |
| Total BTEX    | BTEX 8021B |           | 29.7             | <0.300   | <0.300   | <0.300   | <0.300   |
| Chloride      | SM4500Cl-B |           | 80.0             | 64.0     | 144      | 80.0     | 64.0     |
| GRO           | TPH 8015M  |           | 744              | <10.0    | <10.0    | <10.0    | <10.0    |
| DRO           | TPH 8015M  |           | 15600            | 211      | 80.1     | 75.4     | 25.0     |
| EXT DRO       | TPH 8015M  |           | 3380             | 67.9     | 16.1     | 12.9     | <10.0    |





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October 20, 2020

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: DIMENSIONS 6 CTB

Enclosed are the results of analyses for samples received by the laboratory on 10/14/20 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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**Analytical Results For:**

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

|                   |                       |                     |                |
|-------------------|-----------------------|---------------------|----------------|
| Received:         | 10/14/2020            | Sampling Date:      | 10/12/2020     |
| Reported:         | 10/20/2020            | Sampling Type:      | Soil           |
| Project Name:     | DIMENSIONS 6 CTB      | Sampling Condition: | Cool & Intact  |
| Project Number:   | ( 9-12-20 )           | Sample Received By: | Tamara Oldaker |
| Project Location: | OXY - EDDY COUNTY, NM |                     |                |

**Sample ID: N @ SURFACE (H002738-01)**

| BTEX 8021B     |        | mg/kg           |            | Analyzed By: ms |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/15/2020 | ND              | 1.99 | 99.5       | 2.00          | 6.44 |           |
| Toluene*       | <0.050 | 0.050           | 10/15/2020 | ND              | 2.05 | 102        | 2.00          | 6.60 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/15/2020 | ND              | 1.98 | 98.8       | 2.00          | 6.68 |           |
| Total Xylenes* | <0.150 | 0.150           | 10/15/2020 | ND              | 5.73 | 95.5       | 6.00          | 5.65 |           |
| Total BTEX     | <0.300 | 0.300           | 10/15/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 73.3-129

| Chloride, SM4500Cl-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 192    | 16.0            | 10/16/2020 | 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            | 10/16/2020 | ND              | 224 | 112        | 200           | 3.79  |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/16/2020 | ND              | 216 | 108        | 200           | 0.591 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/16/2020 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 78.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 73.0 % 42.2-156

Cardinal Laboratories

\*=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: 10/14/2020  
 Reported: 10/20/2020  
 Project Name: DIMENSIONS 6 CTB  
 Project Number: ( 9-12-20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 10/12/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: E @ SURFACE (H002738-02)**

| 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           | 10/15/2020 | ND              | 1.99 | 99.5       | 2.00          | 6.44 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/15/2020 | ND              | 2.05 | 102        | 2.00          | 6.60 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/15/2020 | ND              | 1.98 | 98.8       | 2.00          | 6.68 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/15/2020 | ND              | 5.73 | 95.5       | 6.00          | 5.65 |           |  |
| Total BTEx     | <0.300 | 0.300           | 10/15/2020 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 192    | 16.0            | 10/16/2020 | 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            | 10/15/2020 | ND              | 224 | 112        | 200           | 3.79  |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/15/2020 | ND              | 216 | 108        | 200           | 0.591 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/15/2020 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 61.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 56.0 % 42.2-156

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\*=Accredited Analyte

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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: 10/14/2020  
 Reported: 10/20/2020  
 Project Name: DIMENSIONS 6 CTB  
 Project Number: ( 9-12-20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 10/12/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W @ SURFACE (H002738-03)**

| BTEx 8021B     |        | mg/kg           |            | Analyzed By: ms |      |            |               |      |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 10/15/2020 | ND              | 1.99 | 99.5       | 2.00          | 6.44 |           |
| Toluene*       | <0.050 | 0.050           | 10/15/2020 | ND              | 2.05 | 102        | 2.00          | 6.60 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/15/2020 | ND              | 1.98 | 98.8       | 2.00          | 6.68 |           |
| Total Xylenes* | <0.150 | 0.150           | 10/15/2020 | ND              | 5.73 | 95.5       | 6.00          | 5.65 |           |
| Total BTEx     | <0.300 | 0.300           | 10/15/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 176    | 16.0            | 10/16/2020 | 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            | 10/15/2020 | ND              | 224 | 112        | 200           | 3.79  |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/15/2020 | ND              | 216 | 108        | 200           | 0.591 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/15/2020 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 76.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 71.6 % 42.2-156

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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: 10/14/2020  
 Reported: 10/20/2020  
 Project Name: DIMENSIONS 6 CTB  
 Project Number: ( 9-12-20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 10/12/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S @ SURFACE (H002738-04)**

| 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           | 10/15/2020 | ND              | 1.99 | 99.5       | 2.00          | 6.44 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/15/2020 | ND              | 2.05 | 102        | 2.00          | 6.60 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/15/2020 | ND              | 1.98 | 98.8       | 2.00          | 6.68 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/15/2020 | ND              | 5.73 | 95.5       | 6.00          | 5.65 |           |  |
| Total BTEx     | <0.300 | 0.300           | 10/15/2020 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 192    | 16.0            | 10/16/2020 | 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            | 10/15/2020 | ND              | 224 | 112        | 200           | 3.79  |           |
| DRO >C10-C28*    | <10.0  | 10.0            | 10/15/2020 | ND              | 216 | 108        | 200           | 0.591 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/15/2020 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 81.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.4 % 42.2-156

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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:         | 10/14/2020            | Sampling Date:      | 10/12/2020     |
| Reported:         | 10/20/2020            | Sampling Type:      | Soil           |
| Project Name:     | DIMENSIONS 6 CTB      | Sampling Condition: | Cool & Intact  |
| Project Number:   | ( 9-12-20 )           | Sample Received By: | Tamara Oldaker |
| Project Location: | OXY - EDDY COUNTY, NM |                     |                |

**Sample ID: SP 1 @ SURFACE (H002738-05)**

| BTX 8021B      |        | mg/kg           |            | Analyzed By: MS |      |            |               | S-04 |           |
|----------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.200 | 0.200           | 10/16/2020 | ND              | 2.03 | 101        | 2.00          | 6.64 |           |
| Toluene*       | 2.37   | 0.200           | 10/16/2020 | ND              | 2.03 | 102        | 2.00          | 6.96 |           |
| Ethylbenzene*  | 1.53   | 0.200           | 10/16/2020 | ND              | 2.05 | 102        | 2.00          | 7.21 |           |
| Total Xylenes* | 16.7   | 0.600           | 10/16/2020 | ND              | 5.93 | 98.8       | 6.00          | 6.89 |           |
| Total BTX      | 20.6   | 1.20            | 10/16/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 133 % 73.3-129

| Chloride, SM4500CI-B |            |                 | mg/kg      |              |     |            |               | Analyzed By: GM |           |
|----------------------|------------|-----------------|------------|--------------|-----|------------|---------------|-----------------|-----------|
| Analyte              | Result     | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD             | Qualifier |
| Chloride             | <b>400</b> | 16.0            | 10/16/2020 | ND           | 416 | 104        | 400           | 0.00            |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               | S-06  |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | 488    | 50.0            | 10/15/2020 | ND              | 224 | 112        | 200           | 3.79  |           |
| DRO >C10-C28*    | 38700  | 50.0            | 10/15/2020 | ND              | 216 | 108        | 200           | 0.591 |           |
| EXT DRO >C28-C36 | 8750   | 50.0            | 10/15/2020 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 146 % 44.3-144

Surrogate: 1-Chlorooctadecane 1360 % 42.2-156

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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: 10/14/2020  
 Reported: 10/20/2020  
 Project Name: DIMENSIONS 6 CTB  
 Project Number: ( 9-12-20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 10/12/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 @ 1' (H002738-06)**

| 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           | 10/15/2020 | ND              | 1.99 | 99.5       | 2.00          | 6.44 |           |
| Toluene*       | <0.050 | 0.050           | 10/15/2020 | ND              | 2.05 | 102        | 2.00          | 6.60 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/15/2020 | ND              | 1.98 | 98.8       | 2.00          | 6.68 |           |
| Total Xylenes* | <0.150 | 0.150           | 10/15/2020 | ND              | 5.73 | 95.5       | 6.00          | 5.65 |           |
| Total BTX      | <0.300 | 0.300           | 10/15/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 32.0   | 16.0            | 10/16/2020 | 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            | 10/16/2020 | ND              | 224 | 112        | 200           | 3.79  |           |
| DRO >C10-C28*    | 50.4   | 10.0            | 10/16/2020 | ND              | 216 | 108        | 200           | 0.591 |           |
| EXT DRO >C28-C36 | 29.8   | 10.0            | 10/16/2020 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 84.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 72.7 % 42.2-156

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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: 10/14/2020  
 Reported: 10/20/2020  
 Project Name: DIMENSIONS 6 CTB  
 Project Number: ( 9-12-20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 10/12/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 @ 2' (H002738-07)**

| 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           | 10/15/2020 | ND              | 1.99 | 99.5       | 2.00          | 6.44 |           |
| Toluene*       | <0.050 | 0.050           | 10/15/2020 | ND              | 2.05 | 102        | 2.00          | 6.60 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/15/2020 | ND              | 1.98 | 98.8       | 2.00          | 6.68 |           |
| Total Xylenes* | <0.150 | 0.150           | 10/15/2020 | ND              | 5.73 | 95.5       | 6.00          | 5.65 |           |
| Total BTX      | <0.300 | 0.300           | 10/15/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 112    | 16.0            | 10/16/2020 | 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            | 10/15/2020 | ND              | 224 | 112        | 200           | 3.79  |           |
| DRO >C10-C28*    | 24.3   | 10.0            | 10/15/2020 | ND              | 216 | 108        | 200           | 0.591 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/15/2020 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 84.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 82.2 % 42.2-156

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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: 10/14/2020  
 Reported: 10/20/2020  
 Project Name: DIMENSIONS 6 CTB  
 Project Number: ( 9-12-20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 10/13/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 @ SURFACE (H002738-08)**

| BTX 8021B             |              | mg/kg           |            | Analyzed By: ms |      |            |               | S-04 |           |
|-----------------------|--------------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte               | Result       | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Benzene*</b>       | <b>0.180</b> | 0.100           | 10/19/2020 | ND              | 2.03 | 101        | 2.00          | 6.64 |           |
| <b>Toluene*</b>       | <b>5.85</b>  | 0.100           | 10/19/2020 | ND              | 2.03 | 102        | 2.00          | 6.96 |           |
| <b>Ethylbenzene*</b>  | <b>3.50</b>  | 0.100           | 10/19/2020 | ND              | 2.05 | 102        | 2.00          | 7.21 |           |
| <b>Total Xylenes*</b> | <b>20.2</b>  | 0.300           | 10/19/2020 | ND              | 5.93 | 98.8       | 6.00          | 6.89 |           |
| <b>Total BTX</b>      | <b>29.7</b>  | 0.600           | 10/19/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 171 % 73.3-129

| Chloride, SM4500CI-B |             | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result      | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| <b>Chloride</b>      | <b>80.0</b> | 16.0            | 10/16/2020 | ND              | 416 | 104        | 400           | 0.00 |           |

| TPH 8015M                  |              | mg/kg           |            | Analyzed By: MS |     |            |               | S-06  |           |
|----------------------------|--------------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte                    | Result       | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| <b>GRO C6-C10*</b>         | <b>744</b>   | 50.0            | 10/16/2020 | ND              | 224 | 112        | 200           | 3.79  |           |
| <b>DRO &gt;C10-C28*</b>    | <b>15600</b> | 50.0            | 10/16/2020 | ND              | 216 | 108        | 200           | 0.591 |           |
| <b>EXT DRO &gt;C28-C36</b> | <b>3380</b>  | 50.0            | 10/16/2020 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 174 % 44.3-144

Surrogate: 1-Chlorooctadecane 580 % 42.2-156

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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: 10/14/2020  
 Reported: 10/20/2020  
 Project Name: DIMENSIONS 6 CTB  
 Project Number: ( 9-12-20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 10/13/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 @ 1' (H002738-09)**

| 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           | 10/15/2020 | ND              | 1.99 | 99.5       | 2.00          | 6.44 |           |  |
| Toluene*       | <0.050 | 0.050           | 10/15/2020 | ND              | 2.05 | 102        | 2.00          | 6.60 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 10/15/2020 | ND              | 1.98 | 98.8       | 2.00          | 6.68 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 10/15/2020 | ND              | 5.73 | 95.5       | 6.00          | 5.65 |           |  |
| Total BTX      | <0.300 | 0.300           | 10/15/2020 | ND              |      |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 64.0   | 16.0            | 10/16/2020 | 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            | 10/15/2020 | ND              | 224 | 112        | 200           | 3.79  |           |
| DRO >C10-C28*    | 211    | 10.0            | 10/15/2020 | ND              | 216 | 108        | 200           | 0.591 |           |
| EXT DRO >C28-C36 | 67.9   | 10.0            | 10/15/2020 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 80.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.4 % 42.2-156

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**Analytical Results For:**

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

Received: 10/14/2020  
 Reported: 10/20/2020  
 Project Name: DIMENSIONS 6 CTB  
 Project Number: ( 9-12-20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 10/13/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 @ 2' (H002738-10)**

| 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           | 10/15/2020 | ND              | 1.99 | 99.5       | 2.00          | 6.44 |           |
| Toluene*       | <0.050 | 0.050           | 10/15/2020 | ND              | 2.05 | 102        | 2.00          | 6.60 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/15/2020 | ND              | 1.98 | 98.8       | 2.00          | 6.68 |           |
| Total Xylenes* | <0.150 | 0.150           | 10/15/2020 | ND              | 5.73 | 95.5       | 6.00          | 5.65 |           |
| Total BTX      | <0.300 | 0.300           | 10/15/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 144    | 16.0            | 10/16/2020 | 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            | 10/15/2020 | ND              | 224 | 112        | 200           | 3.79  |           |
| DRO >C10-C28*    | 80.1   | 10.0            | 10/15/2020 | ND              | 216 | 108        | 200           | 0.591 |           |
| EXT DRO >C28-C36 | 16.1   | 10.0            | 10/15/2020 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 82.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 80.8 % 42.2-156

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**Analytical Results For:**

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

Received: 10/14/2020  
 Reported: 10/20/2020  
 Project Name: DIMENSIONS 6 CTB  
 Project Number: ( 9-12-20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 10/13/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 @ 3' (H002738-11)**

| 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           | 10/16/2020 | ND              | 2.03 | 101        | 2.00          | 6.64 |           |
| Toluene*       | <0.050 | 0.050           | 10/16/2020 | ND              | 2.03 | 102        | 2.00          | 6.96 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/16/2020 | ND              | 2.05 | 102        | 2.00          | 7.21 |           |
| Total Xylenes* | <0.150 | 0.150           | 10/16/2020 | ND              | 5.93 | 98.8       | 6.00          | 6.89 |           |
| Total BTX      | <0.300 | 0.300           | 10/16/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |  |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |  |
| Chloride             | 80.0   | 16.0            | 10/16/2020 | 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            | 10/15/2020 | ND              | 224 | 112        | 200           | 3.79  |           |
| DRO >C10-C28*    | 75.4   | 10.0            | 10/15/2020 | ND              | 216 | 108        | 200           | 0.591 |           |
| EXT DRO >C28-C36 | 12.9   | 10.0            | 10/15/2020 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 84.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.4 % 42.2-156

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**Analytical Results For:**

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

Received: 10/14/2020  
 Reported: 10/20/2020  
 Project Name: DIMENSIONS 6 CTB  
 Project Number: ( 9-12-20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 10/13/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 @ 4' (H002738-12)**

| 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           | 10/16/2020 | ND              | 2.03 | 101        | 2.00          | 6.64 |           |
| Toluene*       | <0.050 | 0.050           | 10/16/2020 | ND              | 2.03 | 102        | 2.00          | 6.96 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 10/16/2020 | ND              | 2.05 | 102        | 2.00          | 7.21 |           |
| Total Xylenes* | <0.150 | 0.150           | 10/16/2020 | ND              | 5.93 | 98.8       | 6.00          | 6.89 |           |
| Total BTX      | <0.300 | 0.300           | 10/16/2020 | ND              |      |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 73.3-129

| Chloride, SM4500CI-B |        | mg/kg           |            | Analyzed By: GM |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 64.0   | 16.0            | 10/16/2020 | ND              | 416 | 104        | 400           | 3.77 |           |

| TPH 8015M        |        | mg/kg           |            | Analyzed By: MS |     |            |               |       |           |
|------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|-------|-----------|
| Analyte          | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*      | <10.0  | 10.0            | 10/15/2020 | ND              | 224 | 112        | 200           | 3.79  |           |
| DRO >C10-C28*    | 25.0   | 10.0            | 10/15/2020 | ND              | 216 | 108        | 200           | 0.591 |           |
| EXT DRO >C28-C36 | <10.0  | 10.0            | 10/15/2020 | ND              |     |            |               |       |           |

Surrogate: 1-Chlorooctane 79.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 75.6 % 42.2-156

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### Notes and Definitions

|       |                                                                                                                                                                                         |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| S-06  | The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.                                  |
| S-04  | The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.                                                                          |
| 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. |
| QM-07 | The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.                                                        |
| ND    | Analyte NOT DETECTED at or above the reporting limit                                                                                                                                    |
| RPD   | Relative Percent Difference                                                                                                                                                             |
| **    | Samples not received at proper temperature of 6°C or below.                                                                                                                             |
| ***   | Insufficient time to reach temperature.                                                                                                                                                 |
| -     | Chloride by SM4500Cl-B does not require samples be received at or below 6°C<br>Samples reported on an as received basis (wet) unless otherwise noted on report                          |

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\*=Accredited Analyte

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

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Celey D. Keene, Lab Director/Quality Manager

**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

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

1082

|                                           |               |                   |              |                |            |      |     |                         |         |            |            |         |          |          |    |      |     |     |  |  |  |  |  |  |
|-------------------------------------------|---------------|-------------------|--------------|----------------|------------|------|-----|-------------------------|---------|------------|------------|---------|----------|----------|----|------|-----|-----|--|--|--|--|--|--|
| Company Name: BBC International, Inc.     |               |                   |              | <b>BILL TO</b> |            |      |     | <b>ANALYSIS REQUEST</b> |         |            |            |         |          |          |    |      |     |     |  |  |  |  |  |  |
| Project Manager: Cliff Brunson            |               |                   |              | P.O. #:        |            |      |     |                         |         |            |            |         |          |          |    |      |     |     |  |  |  |  |  |  |
| Address: P.O. Box 805                     |               |                   |              | Company: OXY   |            |      |     |                         |         |            |            |         |          |          |    |      |     |     |  |  |  |  |  |  |
| City: Hobbs State: NM Zip: 88241          |               |                   |              | Attn: WADE     |            |      |     |                         |         |            |            |         |          |          |    |      |     |     |  |  |  |  |  |  |
| Phone #: 575-397-6388 Fax #: 575-397-0397 |               |                   |              | Address:       |            |      |     |                         |         |            |            |         |          |          |    |      |     |     |  |  |  |  |  |  |
| Project #: Project Owner: Oxy             |               |                   |              | City:          |            |      |     |                         |         |            |            |         |          |          |    |      |     |     |  |  |  |  |  |  |
| Project Name: Dimensions 6 CTB (9-12-20)  |               |                   |              | State: Zip:    |            |      |     |                         |         |            |            |         |          |          |    |      |     |     |  |  |  |  |  |  |
| Project Location: EDDY COUNTY, NM         |               |                   |              | Phone #:       |            |      |     |                         |         |            |            |         |          |          |    |      |     |     |  |  |  |  |  |  |
| Sampler Name: Simon Rendon                |               |                   |              | Fax #:         |            |      |     |                         |         |            |            |         |          |          |    |      |     |     |  |  |  |  |  |  |
| FOR LAB USE ONLY                          |               |                   |              |                |            |      |     |                         |         |            |            |         |          |          |    |      |     |     |  |  |  |  |  |  |
| Lab I.D.                                  | Sample I.D.   | (GRAB OR C/COMP.) | # CONTAINERS | GROUNDWATER    | WASTEWATER | SOIL | OIL | SLUDGE                  | OTHER : | ACID/BASE: | ICE / COOL | OTHER : | DATE     | TIME     | CL | BTEX | TPH | EXT |  |  |  |  |  |  |
| H802738                                   |               |                   |              |                |            |      |     |                         |         |            |            |         |          |          |    |      |     |     |  |  |  |  |  |  |
| 1                                         | N @ Surface   | G                 | I            |                |            |      |     |                         |         |            |            |         | 10/12/20 | 11:50 AM | ✓  | ✓    | ✓   |     |  |  |  |  |  |  |
| 2                                         | E @ Surface   |                   |              |                |            |      |     |                         |         |            |            |         | 10/12/20 | 12:08 PM | ✓  | ✓    | ✓   |     |  |  |  |  |  |  |
| 3                                         | W @ Surface   |                   |              |                |            |      |     |                         |         |            |            |         | 10/12/20 | 12:20 PM | ✓  | ✓    | ✓   |     |  |  |  |  |  |  |
| 4                                         | S @ Surface   |                   |              |                |            |      |     |                         |         |            |            |         | 10/12/20 | 12:34 PM | ✓  | ✓    | ✓   |     |  |  |  |  |  |  |
| 5                                         | SP1 @ Surface |                   |              |                |            |      |     |                         |         |            |            |         | 10/12/20 | 12:48 PM | ✓  | ✓    | ✓   |     |  |  |  |  |  |  |
| 6                                         | SP1 @ 1'      |                   |              |                |            |      |     |                         |         |            |            |         | 10/12/20 | 1:10 PM  | ✓  | ✓    | ✓   |     |  |  |  |  |  |  |
| 7                                         | SP1 @ 2'      |                   |              |                |            |      |     |                         |         |            |            |         | 10/12/20 | 1:18 PM  | ✓  | ✓    | ✓   |     |  |  |  |  |  |  |
| 8                                         | SP2 @ Surface |                   |              |                |            |      |     |                         |         |            |            |         | 10/13/20 | 11:05 AM | ✓  | ✓    | ✓   |     |  |  |  |  |  |  |
| 9                                         | SP2 @ 1'      |                   |              |                |            |      |     |                         |         |            |            |         | 10/13/20 | 11:14 AM | ✓  | ✓    | ✓   |     |  |  |  |  |  |  |
| 10                                        | SP2 @ 2'      |                   |              |                |            |      |     |                         |         |            |            |         | 10/13/20 | 11:23 AM | ✓  | ✓    | ✓   |     |  |  |  |  |  |  |

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|                                          |                                                                                    |                  |                                                                        |                |
|------------------------------------------|------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------|----------------|
| Relinquished By:                         | Date: 10-14-20                                                                     | Received By:     | Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No | Add'l Phone #: |
|                                          | Time: 1:450                                                                        |                  | Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No   | Add'l Fax #:   |
| Relinquished By:                         | Date:                                                                              | Received By:     | REMARKS:                                                               |                |
|                                          | Time:                                                                              |                  |                                                                        |                |
| Delivered By: (Circle One)               | Sample Condition                                                                   | CHECKED BY:      |                                                                        |                |
| Sampler - UPS - Bus - Other: -5.3°C #113 | Cool Intact<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | (Initials)<br>T. |                                                                        |                |

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

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**District I**

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**District II**

811 S. First St., Artesia, NM 88210  
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**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 17413

**CONDITIONS**

|                                                                    |                                                           |
|--------------------------------------------------------------------|-----------------------------------------------------------|
| Operator:<br>OXY USA INC<br>P.O. Box 4294<br>Houston, TX 772104294 | OGRID:<br>16696                                           |
|                                                                    | Action Number:<br>17413                                   |
|                                                                    | Action Type:<br>[C-141] Release Corrective Action (C-141) |

**CONDITIONS**

| Created By | Condition                                                                                                                                                                                                       | Condition Date |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| ceads      | Please use Table I Closure Criteria for releases where ground water is at a depth of 50' or less. NMOSE records indicate groundwater is below 50' at well 03615 located.13 miles southeast of the release area. | 6/23/2021      |