



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

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## DELINEATION/REMEDATION WORKPLAN

**OXY – State 2 3 CTB**  
**(Leak Date: 2/12/20)**

**Incident ID: NRM2008455073**

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This delineation workplan and remediation proposal addresses the releases associated with Incident ID #NRM2008455073.

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, and/or copy of Chevron groundwater trend map).
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 and SP2 (RED shade on diagram) will be excavated to a depth of 1 foot. The leak area near SP3 and SP4 (WHITE shade on diagram) will require zero remediation.***

***Bottom confirmation samples will be collected every 75 feet. The estimated amount of soil to be excavated is 60 cubic yards. Remediation activities will commence within 90 days of all approvals.***

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	NRM2008455073
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?	133 (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 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

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State of New Mexico  
Oil Conservation Division

Incident ID	NRM2008455073
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 CoordinatorSignature:  Date: 7-17-20email: wade\_dittrich@oxy.com Telephone: (575) 390-2828**OCD Only**

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

Form C-141

State of New Mexico  
Oil Conservation Division

Page 5

Incident ID	NRM2008455073
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
- ☒ Closure criteria is to Table 1 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: 7-17-20  
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: \_\_\_\_\_

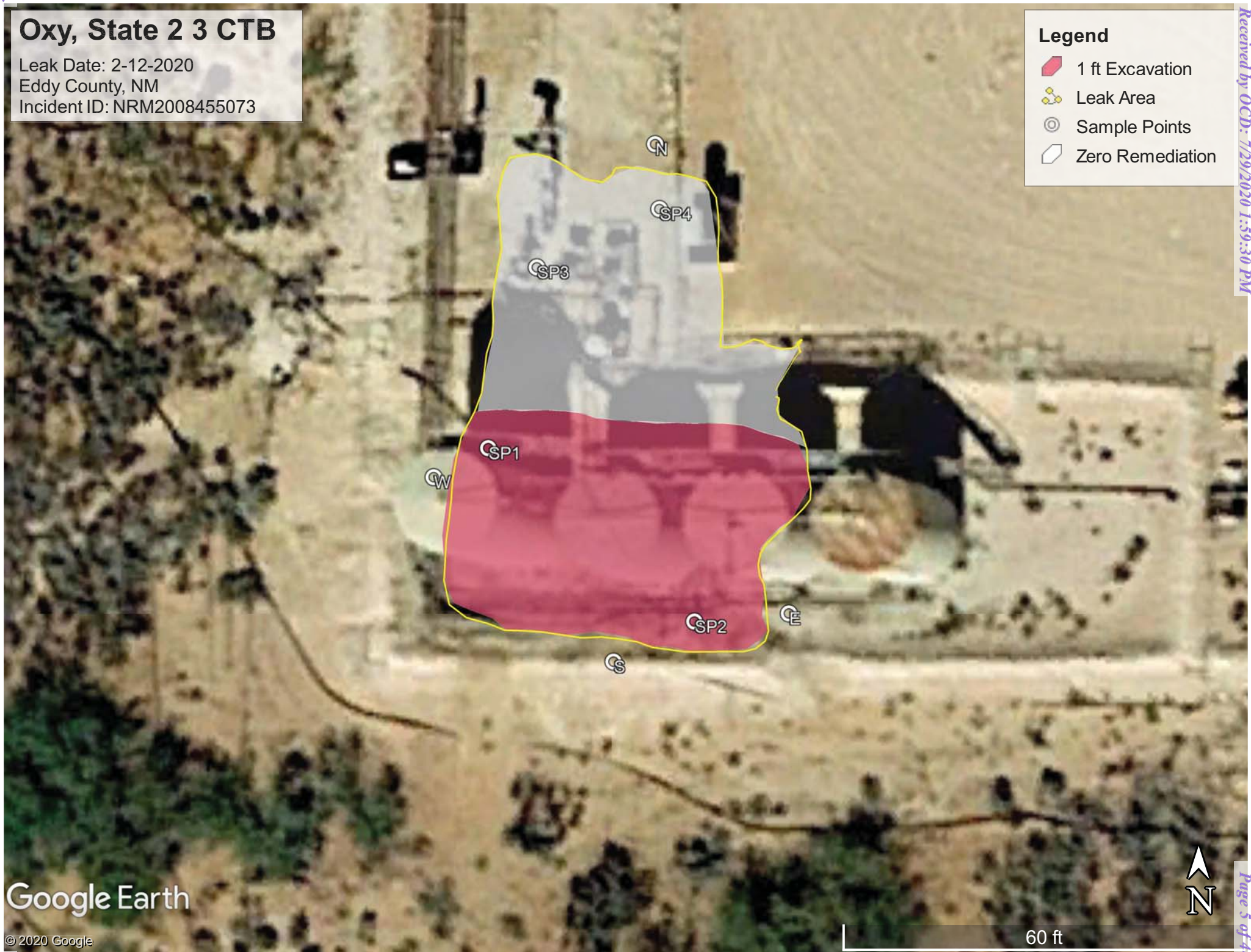


# Oxy, State 2 3 CTB

Leak Date: 2-12-2020  
Eddy County, NM  
Incident ID: NRM2008455073

## Legend

- 1 ft Excavation
- Leak Area
- Sample Points
- Zero Remediation



**Oxy, State 2 3 CTB 2-12-2020**

Sample Points:

SP1, N 32.41934 W 103.74155

SP2, N 32.41927 W 103.74145

SP3, N 32.41942 W 103.74152

SP4, N 32.41944 W 103.74147

North, N 32.41947 W 103.74147

East, N 32.41928 W 103.74140

West, N 32.41933 W 103.74157

South, N 32.41926 W 103.74149



USGS Home  
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National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

New Mexico

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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 =

- 322333103461301

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

USGS 322333103461301 22S.31E.15.13223

Eddy County, New Mexico  
Latitude 32°23'40", Longitude 103°46'15" NAD27  
Land-surface elevation 3,456 feet above NAVD88  
The depth of the well is 170 feet below land surface.  
This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

Table of data

Tab-separated data

Graph of data

Reselect period

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1959-02-19		D	150.87				2		U	
1972-09-12		D	146.30				2		U	
1976-12-08		D	135.97				2		U	
1983-01-18		D	133.14				2		U	

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	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.

[Questions about sites/data?](#)  
[Feedback on this web site](#)

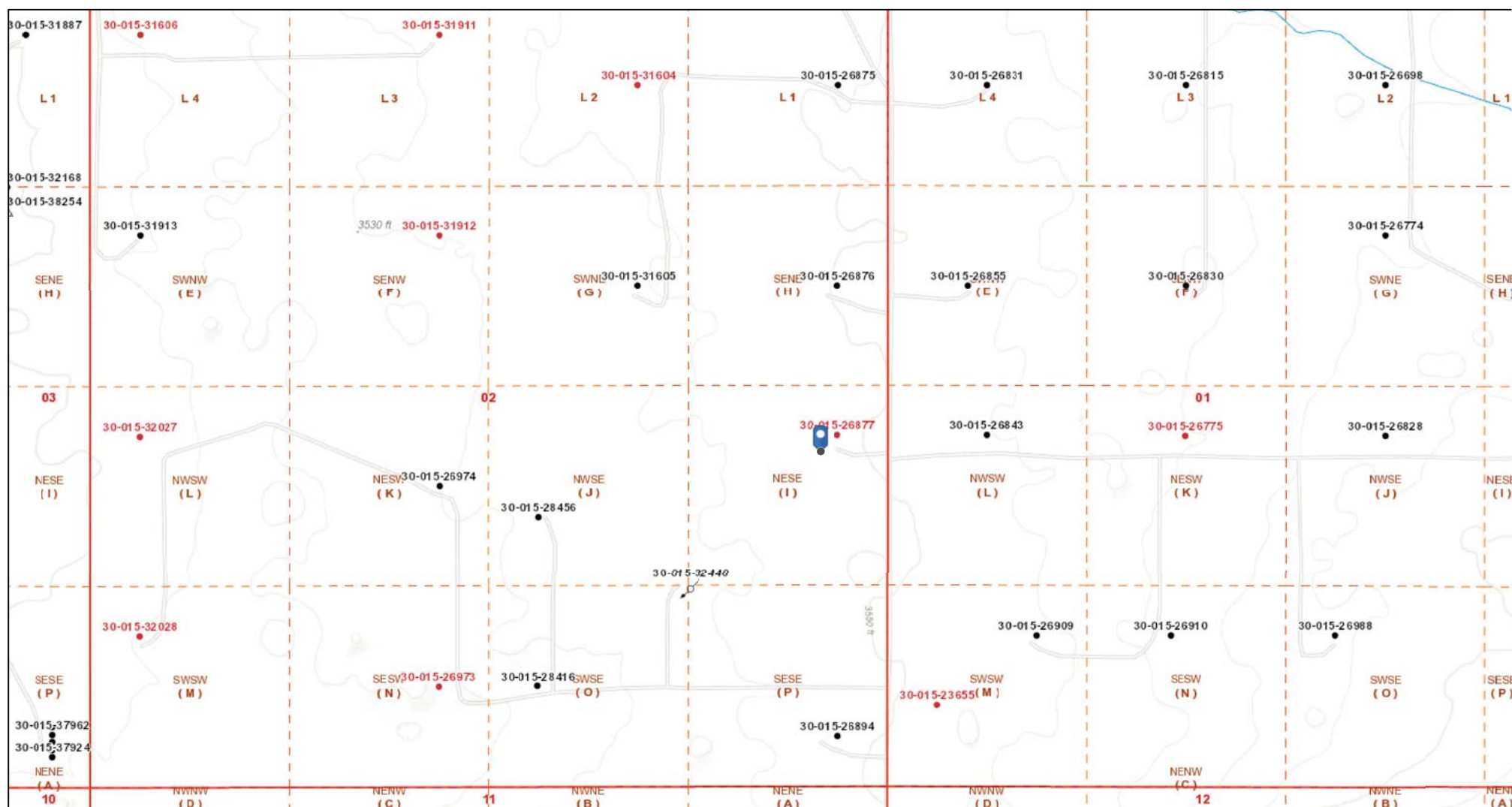
[Automated retrievals](#)[Help](#)[Data Tips](#)[Explanation of terms](#)[Subscribe for system changes](#)[News](#)[Accessibility](#)[Plug-Ins](#)[FOIA](#)[Privacy](#)[Policies and Notices](#)[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)**Title: Groundwater for New Mexico: Water Levels****URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>**Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2020-02-14 15:32:19 EST

0.28 0.26 nadww01

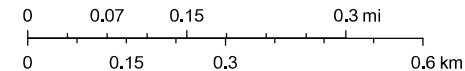
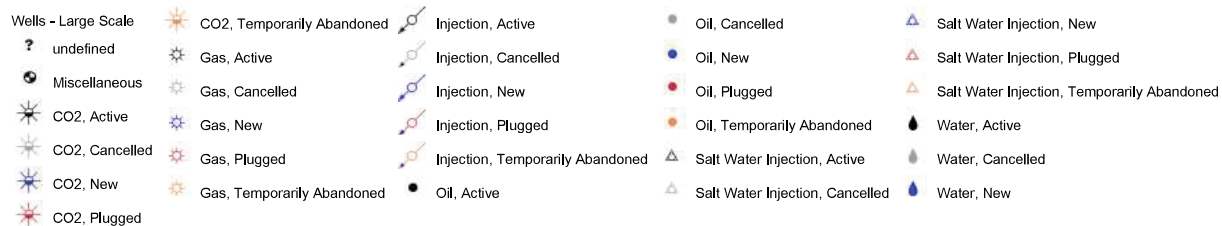


Oxy, State 2 3 CTB (2-12-20) 3,000 ft to h2o



2/14/2020 11:12:55 AM

1:9,028



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,



NM OCD Oil and Gas Map. <http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29df2b9f835ca75>: New Mexico Oil Conservation Division

# Oxy, State 2 3 CTB

Leak Date: 2-12-20  
Eddy County, NM  
Incident ID: NRM2008455073

## BLM CAVE KARST MAP

### Legend

-  Leak Area
-  Low Potential



# National Flood Hazard Layer FIRMette



32°25'25.96"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

32°24'55.59"N

## Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) 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 Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee, See Notes, Zone X
		Area with Flood Risk due to Levee Zone X

OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs

OTHER AREAS		Area of Undetermined Flood Hazard Zone D
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GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall

OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature

MAP PANELS		Digital Data Available
		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 **2/17/2020 at 4:22:15 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.

Received by OCD: 7/29/20 1:59:30 PM

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Laboratory Analytical Results Summary  
Oxy, State 2 3 CTB 02-12-20

		Sample ID	North @ Surface	East @ Surface	West @ Surface	South @ Surface
Analyte	Method	Date	3/19/20	3/19/20	3/19/20	3/19/20
			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		16.0	16.0	16.0	<16.0
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 @ Surface	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'
Analyte	Method	Date	3/19/20	3/19/20	3/19/20	3/19/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		2.65	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		4.63	0.067	0.058	<0.050
Ethylbenzene	BTEX 8021B		2.79	0.083	0.07	<0.050
Total Xylenes	BTEX 8021B		7.92	0.272	0.282	<0.150
Total BTEX	BTEX 8021B		18.0	0.422	0.410	<0.300
Chloride	SM4500Cl-B		1600	1840	240	16.0
GRO	TPH 8015M		550	<10.0	<10.0	<10.0
DRO	TPH 8015M		9720	869	231	<10.0
EXT DRO	TPH 8015M		2630	670	215	<10.0

		Sample ID	SP2 @ Surface	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'	SP2 @ 5'
Analyte	Method	Date	3/19/20	3/19/20	3/19/20	3/19/20	3/19/20	3/19/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		12.3	<0.050	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		30.6	<0.050	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		15.8	<0.050	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		46.6	<0.150	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		105	<0.300	<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		784	1650	864	544	304	32.0
GRO	TPH 8015M		3940	<10.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		22000	<10.0	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		5380	<10.0	<10.0	n/a	n/a	n/a

		Sample ID	SP3 @ Surface	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	3/19/20	3/19/20	3/19/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		80.0	224	176
GRO	TPH 8015M		<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a

Laboratory Analytical Results Summary  
**Oxy, State 2 3 CTB 02-12-20**

		Sample ID	SP4 @ Surface	SP4 @ 1'	SP4 @ 2'
Analyte	Method	Date	3/19/20	3/19/20	3/19/20
			mg/kg	mg/kg	mg/kg
<b>Benzene</b>	BTEX 8021B		<0.050	<0.050	n/a
<b>Toluene</b>	BTEX 8021B		<0.050	<0.050	n/a
<b>Ethylbenzene</b>	BTEX 8021B		<0.050	<0.050	n/a
<b>Total Xylenes</b>	BTEX 8021B		<0.150	<0.150	n/a
<b>Total BTEX</b>	BTEX 8021B		<0.300	<0.300	n/a
<b>Chloride</b>	SM4500Cl-B		<b>64.0</b>	<b>16.0</b>	<b>&lt;16.0</b>
<b>GRO</b>	TPH 8015M		<10.0	<10.0	n/a
<b>DRO</b>	TPH 8015M		<10.0	<10.0	n/a
<b>EXT DRO</b>	TPH 8015M		<10.0	<10.0	n/a





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

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March 30, 2020

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: STATE 2 3 CTB

Enclosed are the results of analyses for samples received by the laboratory on 03/23/20 17:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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".

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: STATE 2 3 CTB  
Project Number: ( 2-12-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
30-Mar-20 12:24

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
NORTH @ SURFACE	H000892-01	Soil	19-Mar-20 08:45	23-Mar-20 17:00
EAST @ SURFACE	H000892-02	Soil	19-Mar-20 09:00	23-Mar-20 17:00
WEST @ SURFACE	H000892-03	Soil	19-Mar-20 09:12	23-Mar-20 17:00
SOUTH @ SURFACE	H000892-04	Soil	19-Mar-20 09:26	23-Mar-20 17:00
SP 1 @ SURFACE	H000892-05	Soil	19-Mar-20 09:44	23-Mar-20 17:00
SP 1 @ 1'	H000892-06	Soil	19-Mar-20 10:03	23-Mar-20 17:00
SP 1 @ 2'	H000892-07	Soil	19-Mar-20 10:18	23-Mar-20 17:00
SP 1 @ 3'	H000892-08	Soil	19-Mar-20 10:37	23-Mar-20 17:00
SP 2 @ SURFACE	H000892-09	Soil	19-Mar-20 10:48	23-Mar-20 17:00
SP 2 @ 1'	H000892-10	Soil	19-Mar-20 11:10	23-Mar-20 17:00
SP 2 @ 2'	H000892-11	Soil	19-Mar-20 11:22	23-Mar-20 17:00
SP 2 @ 3'	H000892-12	Soil	19-Mar-20 11:36	23-Mar-20 17:00
SP 2 @ 4'	H000892-13	Soil	19-Mar-20 11:52	23-Mar-20 17:00
SP 2 @ 5'	H000892-14	Soil	19-Mar-20 12:08	23-Mar-20 17:00
SP 3 @ SURFACE	H000892-15	Soil	19-Mar-20 12:43	23-Mar-20 17:00
SP 3 @ 1'	H000892-16	Soil	19-Mar-20 12:56	23-Mar-20 17:00
SP 3 @ 2'	H000892-17	Soil	19-Mar-20 13:12	23-Mar-20 17:00
SP 4 @ SURFACE	H000892-18	Soil	19-Mar-20 13:23	23-Mar-20 17:00
SP 4 @ 1'	H000892-19	Soil	19-Mar-20 13:40	23-Mar-20 17:00
SP 4 @ 2'	H000892-20	Soil	19-Mar-20 13:53	23-Mar-20 17:00

03/30/20 - This is the revised report with the added BTEX and TPH on -08. This report will replace the one sent on 03/27/20.

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: STATE 2 3 CTB  
Project Number: ( 2-12-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
30-Mar-20 12:24

**NORTH @ SURFACE****H000892-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	0032504	GM	25-Mar-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0032404	MS	24-Mar-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0032404	MS	24-Mar-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0032404	MS	24-Mar-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0032404	MS	24-Mar-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0032404	MS	24-Mar-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129 0032404 MS 24-Mar-20 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0032406	MS	25-Mar-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0032406	MS	25-Mar-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0032406	MS	25-Mar-20	8015B	

Surrogate: 1-Chlorooctane 87.4 % 44.3-144 0032406 MS 25-Mar-20 8015B

Surrogate: 1-Chlorooctadecane 95.9 % 42.2-156 0032406 MS 25-Mar-20 8015B

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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.  
P.O. Box 805  
Hobbs NM, 88241

Project: STATE 2 3 CTB  
Project Number: ( 2-12-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
30-Mar-20 12:24

**EAST @ SURFACE****H000892-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	0032504	GM	25-Mar-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0032407	MS	24-Mar-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			100 %	73.3-129		0032407	MS	24-Mar-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0032406	MS	25-Mar-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0032406	MS	25-Mar-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0032406	MS	25-Mar-20	8015B	

Surrogate: 1-Chlorooctane			87.4 %	44.3-144		0032406	MS	25-Mar-20	8015B	
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Surrogate: 1-Chlorooctadecane			95.3 %	42.2-156		0032406	MS	25-Mar-20	8015B	
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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.  
P.O. Box 805  
Hobbs NM, 88241

Project: STATE 2 3 CTB  
Project Number: ( 2-12-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
30-Mar-20 12:24

**WEST @ SURFACE****H000892-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	0032504	GM	25-Mar-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0032407	MS	24-Mar-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.9 %		73.3-129	0032407	MS	24-Mar-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0032406	MS	25-Mar-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0032406	MS	25-Mar-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0032406	MS	25-Mar-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			90.6 %		44.3-144	0032406	MS	25-Mar-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			97.2 %		42.2-156	0032406	MS	25-Mar-20	8015B	
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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.  
P.O. Box 805  
Hobbs NM, 88241

Project: STATE 2 3 CTB  
Project Number: ( 2-12-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
30-Mar-20 12:24

**SOUTH @ SURFACE****H000892-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	0032504	GM	25-Mar-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0032407	MS	24-Mar-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			100 %	73.3-129		0032407	MS	24-Mar-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0032406	MS	25-Mar-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0032406	MS	25-Mar-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0032406	MS	25-Mar-20	8015B	

Surrogate: 1-Chlorooctane			83.2 %	44.3-144		0032406	MS	25-Mar-20	8015B	
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Surrogate: 1-Chlorooctadecane			90.2 %	42.2-156		0032406	MS	25-Mar-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: STATE 2 3 CTB  
Project Number: ( 2-12-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
30-Mar-20 12:24

**SP 1 @ SURFACE****H000892-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	1600		16.0	mg/kg	4	0032504	GM	25-Mar-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	2.65		0.050	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Toluene*	4.63		0.050	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Ethylbenzene*	2.79		0.050	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Total Xylenes*	7.92		0.150	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Total BTEX	18.0		0.300	mg/kg	50	0032407	MS	24-Mar-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			251 %	73.3-129		0032407	MS	24-Mar-20	8021B	
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**Petroleum Hydrocarbons by GC FID****S-06**

GRO C6-C10*	550		50.0	mg/kg	5	0032406	MS	25-Mar-20	8015B	
DRO >C10-C28*	9720		50.0	mg/kg	5	0032406	MS	25-Mar-20	8015B	
EXT DRO >C28-C36	2630		50.0	mg/kg	5	0032406	MS	25-Mar-20	8015B	

Surrogate: 1-Chlorooctane			131 %	44.3-144		0032406	MS	25-Mar-20	8015B	
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Surrogate: 1-Chlorooctadecane			389 %	42.2-156		0032406	MS	25-Mar-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: STATE 2 3 CTB  
Project Number: ( 2-12-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
30-Mar-20 12:24

**SP 1 @ 1'**  
**H000892-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>1840</b>		16.0	mg/kg	4	0032504	GM	25-Mar-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Toluene*	<b>0.067</b>		0.050	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Ethylbenzene*	<b>0.083</b>		0.050	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Total Xylenes*	<b>0.272</b>		0.150	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Total BTEX	<b>0.422</b>		0.300	mg/kg	50	0032407	MS	24-Mar-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		101 %	73.3-129			0032407	MS	24-Mar-20	8021B	
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**Petroleum Hydrocarbons by GC FID****S-04**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0032406	MS	27-Mar-20	8015B	
DRO >C10-C28*	<b>869</b>		10.0	mg/kg	1	0032406	MS	27-Mar-20	8015B	
EXT DRO >C28-C36	<b>670</b>		10.0	mg/kg	1	0032406	MS	27-Mar-20	8015B	

Surrogate: 1-Chlorooctane		91.4 %	44.3-144			0032406	MS	27-Mar-20	8015B	
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Surrogate: 1-Chlorooctadecane		165 %	42.2-156			0032406	MS	27-Mar-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: STATE 2 3 CTB  
Project Number: ( 2-12-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
30-Mar-20 12:24

**SP 1 @ 2'**  
**H000892-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>240</b>		16.0	mg/kg	4	0032504	GM	25-Mar-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Toluene*	<b>0.058</b>		0.050	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Ethylbenzene*	<b>0.070</b>		0.050	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Total Xylenes*	<b>0.282</b>		0.150	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Total BTEX	<b>0.410</b>		0.300	mg/kg	50	0032407	MS	24-Mar-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		109 %		73.3-129		0032407	MS	24-Mar-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0032406	MS	27-Mar-20	8015B	
DRO >C10-C28*	<b>231</b>		10.0	mg/kg	1	0032406	MS	27-Mar-20	8015B	
EXT DRO >C28-C36	<b>215</b>		10.0	mg/kg	1	0032406	MS	27-Mar-20	8015B	

Surrogate: 1-Chlorooctane		85.2 %		44.3-144		0032406	MS	27-Mar-20	8015B	
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Surrogate: 1-Chlorooctadecane		107 %		42.2-156		0032406	MS	27-Mar-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: STATE 2 3 CTB  
Project Number: ( 2-12-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
30-Mar-20 12:24

**SP 1 @ 3'**  
**H000892-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	0032504	GM	25-Mar-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0032707	MS	27-Mar-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0032707	MS	27-Mar-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0032707	MS	27-Mar-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0032707	MS	27-Mar-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0032707	MS	27-Mar-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %	73.3-129		0032707	MS	27-Mar-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0032706	MS	28-Mar-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0032706	MS	28-Mar-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0032706	MS	28-Mar-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			94.8 %	44.3-144		0032706	MS	28-Mar-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			101 %	42.2-156		0032706	MS	28-Mar-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: STATE 2 3 CTB  
Project Number: ( 2-12-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
30-Mar-20 12:24

**SP 2 @ SURFACE****H000892-09 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	784		16.0	mg/kg	4	0032504	GM	25-Mar-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021****S-04**

Benzene*	12.3		0.200	mg/kg	200	0032407	MS	25-Mar-20	8021B	
Toluene*	30.6		0.200	mg/kg	200	0032407	MS	25-Mar-20	8021B	
Ethylbenzene*	15.8		0.200	mg/kg	200	0032407	MS	25-Mar-20	8021B	
Total Xylenes*	46.6		0.600	mg/kg	200	0032407	MS	25-Mar-20	8021B	
Total BTEX	105		1.20	mg/kg	200	0032407	MS	25-Mar-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	219 %		73.3-129			0032407	MS	25-Mar-20	8021B	
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**Petroleum Hydrocarbons by GC FID****S-06**

GRO C6-C10*	3940		100	mg/kg	10	0032406	MS	25-Mar-20	8015B	
DRO >C10-C28*	22000		100	mg/kg	10	0032406	MS	25-Mar-20	8015B	
EXT DRO >C28-C36	5380		100	mg/kg	10	0032406	MS	25-Mar-20	8015B	

Surrogate: 1-Chlorooctane	192 %		44.3-144			0032406	MS	25-Mar-20	8015B	
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Surrogate: 1-Chlorooctadecane	701 %		42.2-156			0032406	MS	25-Mar-20	8015B	
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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.  
P.O. Box 805  
Hobbs NM, 88241

Project: STATE 2 3 CTB  
Project Number: ( 2-12-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
30-Mar-20 12:24

**SP 2 @ 1'**  
**H000892-10 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>1650</b>		16.0	mg/kg	4	0032504	GM	25-Mar-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0032407	MS	24-Mar-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			110 %		73.3-129	0032407	MS	24-Mar-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0032406	MS	25-Mar-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0032406	MS	25-Mar-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0032406	MS	25-Mar-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			86.7 %		44.3-144	0032406	MS	25-Mar-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			95.9 %		42.2-156	0032406	MS	25-Mar-20	8015B	
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**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: STATE 2 3 CTB  
Project Number: ( 2-12-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
30-Mar-20 12:24

**SP 2 @ 2'**  
**H000892-11 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>864</b>		16.0	mg/kg	4	0032504	GM	25-Mar-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0032407	MS	24-Mar-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129 0032407 MS 24-Mar-20 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0032406	MS	25-Mar-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0032406	MS	25-Mar-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0032406	MS	25-Mar-20	8015B	

Surrogate: 1-Chlorooctane 89.7 % 44.3-144 0032406 MS 25-Mar-20 8015B

Surrogate: 1-Chlorooctadecane 97.1 % 42.2-156 0032406 MS 25-Mar-20 8015B

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**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: STATE 2 3 CTB  
Project Number: ( 2-12-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
30-Mar-20 12:24

**SP 2 @ 3'**  
**H000892-12 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Chloride	544		16.0	mg/kg	4	0032504	GM	25-Mar-20	4500-Cl-B	

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**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: STATE 2 3 CTB  
Project Number: ( 2-12-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
30-Mar-20 12:24

**SP 2 @ 4'**  
**H000892-13 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>304</b>		16.0	mg/kg	4	0032510	GM	25-Mar-20	4500-Cl-B	
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**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: STATE 2 3 CTB  
Project Number: ( 2-12-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
30-Mar-20 12:24

**SP 2 @ 5'**  
**H000892-14 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>32.0</b>		16.0	mg/kg	4	0032510	GM	25-Mar-20	4500-Cl-B	
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**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: STATE 2 3 CTB  
Project Number: ( 2-12-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
30-Mar-20 12:24

**SP 3 @ SURFACE****H000892-15 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	0032510	GM	25-Mar-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0032407	MS	24-Mar-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 73.3-129 0032407 MS 24-Mar-20 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0032406	MS	25-Mar-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0032406	MS	25-Mar-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0032406	MS	25-Mar-20	8015B	

Surrogate: 1-Chlorooctane 76.2 % 44.3-144 0032406 MS 25-Mar-20 8015B

Surrogate: 1-Chlorooctadecane 83.8 % 42.2-156 0032406 MS 25-Mar-20 8015B

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**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: STATE 2 3 CTB  
Project Number: ( 2-12-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
30-Mar-20 12:24

**SP 3 @ 1'**  
**H000892-16 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>224</b>		16.0	mg/kg	4	0032510	GM	25-Mar-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0032407	MS	24-Mar-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %	73.3-129		0032407	MS	24-Mar-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0032406	MS	25-Mar-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0032406	MS	25-Mar-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0032406	MS	25-Mar-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			88.7 %	44.3-144		0032406	MS	25-Mar-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			98.2 %	42.2-156		0032406	MS	25-Mar-20	8015B	
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**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: STATE 2 3 CTB  
Project Number: ( 2-12-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
30-Mar-20 12:24

**SP 3 @ 2'**  
**H000892-17 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>176</b>		16.0	mg/kg	4	0032510	GM	25-Mar-20	4500-Cl-B	
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**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: STATE 2 3 CTB  
Project Number: ( 2-12-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
30-Mar-20 12:24

**SP 4 @ SURFACE****H000892-18 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	0032510	GM	25-Mar-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0032407	MS	24-Mar-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129 0032407 MS 24-Mar-20 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0032406	MS	25-Mar-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0032406	MS	25-Mar-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0032406	MS	25-Mar-20	8015B	

Surrogate: 1-Chlorooctane 84.5 % 44.3-144 0032406 MS 25-Mar-20 8015B

Surrogate: 1-Chlorooctadecane 95.1 % 42.2-156 0032406 MS 25-Mar-20 8015B

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**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: STATE 2 3 CTB  
Project Number: ( 2-12-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
30-Mar-20 12:24

**SP 4 @ 1'**  
**H000892-19 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>16.0</b>		16.0	mg/kg	4	0032510	GM	25-Mar-20	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0032407	MS	24-Mar-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0032407	MS	24-Mar-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.9 %		73.3-129	0032407	MS	24-Mar-20	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	0032406	MS	25-Mar-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0032406	MS	25-Mar-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0032406	MS	25-Mar-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			86.5 %		44.3-144	0032406	MS	25-Mar-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			98.0 %		42.2-156	0032406	MS	25-Mar-20	8015B	
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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.  
P.O. Box 805  
Hobbs NM, 88241

Project: STATE 2 3 CTB  
Project Number: ( 2-12-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
30-Mar-20 12:24

**SP 4 @ 2'**  
**H000892-20 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	0032510	GM	25-Mar-20	4500-Cl-B	
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**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: STATE 2 3 CTB  
Project Number: ( 2-12-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
30-Mar-20 12:24

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 0032504 - 1:4 DI Water****Blank (0032504-BLK1)**

Prepared &amp; Analyzed: 25-Mar-20

Chloride	ND	16.0	mg/kg							
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**LCS (0032504-BS1)**

Prepared &amp; Analyzed: 25-Mar-20

Chloride	432	16.0	mg/kg	400		108	80-120			
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**LCS Dup (0032504-BSD1)**

Prepared &amp; Analyzed: 25-Mar-20

Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	
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**Batch 0032510 - 1:4 DI Water****Blank (0032510-BLK1)**

Prepared &amp; Analyzed: 25-Mar-20

Chloride	ND	16.0	mg/kg							
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**LCS (0032510-BS1)**

Prepared &amp; Analyzed: 25-Mar-20

Chloride	432	16.0	mg/kg	400		108	80-120			
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**LCS Dup (0032510-BSD1)**

Prepared &amp; Analyzed: 25-Mar-20

Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: STATE 2 3 CTB  
Project Number: ( 2-12-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
30-Mar-20 12:24

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 0032404 - Volatiles****Blank (0032404-BLK1)**

Prepared &amp; Analyzed: 24-Mar-20

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		99.7	73.3-129			

**LCS (0032404-BS1)**

Prepared &amp; Analyzed: 24-Mar-20

Benzene	2.05	0.050	mg/kg	2.00		102	72.2-131			
Toluene	2.06	0.050	mg/kg	2.00		103	71.7-126			
Ethylbenzene	2.07	0.050	mg/kg	2.00		103	68.9-126			
Total Xylenes	6.06	0.150	mg/kg	6.00		101	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0505		mg/kg	0.0500		101	73.3-129			

**LCS Dup (0032404-BSD1)**

Prepared &amp; Analyzed: 24-Mar-20

Benzene	1.94	0.050	mg/kg	2.00		97.2	72.2-131	5.13	14.6	
Toluene	1.96	0.050	mg/kg	2.00		97.8	71.7-126	4.95	17.4	
Ethylbenzene	1.97	0.050	mg/kg	2.00		98.7	68.9-126	4.66	18.9	
Total Xylenes	5.77	0.150	mg/kg	6.00		96.1	71.4-125	4.86	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0507		mg/kg	0.0500		101	73.3-129			

**Batch 0032407 - Volatiles****Blank (0032407-BLK1)**

Prepared &amp; Analyzed: 24-Mar-20

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0505		mg/kg	0.0500		101	73.3-129			

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**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: STATE 2 3 CTB  
Project Number: ( 2-12-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
30-Mar-20 12:24

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 0032407 - Volatiles****LCS (0032407-BS1)**

Prepared &amp; Analyzed: 24-Mar-20

Benzene	2.09	0.050	mg/kg	2.00		105	72.2-131			
Toluene	2.10	0.050	mg/kg	2.00		105	71.7-126			
Ethylbenzene	2.10	0.050	mg/kg	2.00		105	68.9-126			
Total Xylenes	6.06	0.150	mg/kg	6.00		101	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0558		mg/kg	0.0500		112	73.3-129			

**LCS Dup (0032407-BS1)**

Prepared &amp; Analyzed: 24-Mar-20

Benzene	2.01	0.050	mg/kg	2.00		100	72.2-131	4.12	14.6	
Toluene	2.00	0.050	mg/kg	2.00		100	71.7-126	4.83	17.4	
Ethylbenzene	2.01	0.050	mg/kg	2.00		100	68.9-126	4.43	18.9	
Total Xylenes	5.78	0.150	mg/kg	6.00		96.4	71.4-125	4.68	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0521		mg/kg	0.0500		104	73.3-129			

**Batch 0032707 - Volatiles****Blank (0032707-BLK1)**

Prepared &amp; Analyzed: 27-Mar-20

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0502		mg/kg	0.0500		100	73.3-129			

**LCS (0032707-BS1)**

Prepared &amp; Analyzed: 27-Mar-20

Benzene	2.12	0.050	mg/kg	2.00		106	72.2-131			
Toluene	2.13	0.050	mg/kg	2.00		106	71.7-126			
Ethylbenzene	2.14	0.050	mg/kg	2.00		107	68.9-126			
Total Xylenes	6.28	0.150	mg/kg	6.00		105	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0506		mg/kg	0.0500		101	73.3-129			

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**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: STATE 2 3 CTB  
Project Number: ( 2-12-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
30-Mar-20 12:24

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 0032707 - Volatiles****LCS Dup (0032707-BSD1)**

Prepared &amp; Analyzed: 27-Mar-20

Benzene	2.06	0.050	mg/kg	2.00		103	72.2-131	2.78	14.6	
Toluene	2.06	0.050	mg/kg	2.00		103	71.7-126	2.90	17.4	
Ethylbenzene	2.08	0.050	mg/kg	2.00		104	68.9-126	2.90	18.9	
Total Xylenes	6.10	0.150	mg/kg	6.00		102	71.4-125	2.86	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0509		mg/kg	0.0500		102	73.3-129			

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**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: STATE 2 3 CTB  
Project Number: ( 2-12-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
30-Mar-20 12:24

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 0032406 - General Prep - Organics****Blank (0032406-BLK1)**

Prepared: 24-Mar-20 Analyzed: 25-Mar-20

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	42.2		mg/kg	50.0		84.4	44.3-144			
Surrogate: 1-Chlorooctadecane	46.9		mg/kg	50.0		93.9	42.2-156			

**LCS (0032406-BS1)**

Prepared: 24-Mar-20 Analyzed: 25-Mar-20

GRO C6-C10	208	10.0	mg/kg	200		104	78.8-127			
DRO >C10-C28	216	10.0	mg/kg	200		108	80-132			
Total TPH C6-C28	424	10.0	mg/kg	400		106	81.3-128			
Surrogate: 1-Chlorooctane	48.9		mg/kg	50.0		97.7	44.3-144			
Surrogate: 1-Chlorooctadecane	49.4		mg/kg	50.0		98.7	42.2-156			

**LCS Dup (0032406-BS1)**

Prepared: 24-Mar-20 Analyzed: 25-Mar-20

GRO C6-C10	209	10.0	mg/kg	200		105	78.8-127	0.598	15.1	
DRO >C10-C28	238	10.0	mg/kg	200		119	80-132	9.66	17.1	
Total TPH C6-C28	448	10.0	mg/kg	400		112	81.3-128	5.32	15	
Surrogate: 1-Chlorooctane	48.0		mg/kg	50.0		96.0	44.3-144			
Surrogate: 1-Chlorooctadecane	49.4		mg/kg	50.0		98.8	42.2-156			

**Batch 0032706 - General Prep - Organics****Blank (0032706-BLK1)**

Prepared &amp; Analyzed: 27-Mar-20

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	49.3		mg/kg	50.0		98.6	44.3-144			
Surrogate: 1-Chlorooctadecane	51.1		mg/kg	50.0		102	42.2-156			

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**Analytical Results For:**

BBC International, Inc.  
P.O. Box 805  
Hobbs NM, 88241

Project: STATE 2 3 CTB  
Project Number: ( 2-12-20 )  
Project Manager: Cliff Brunson  
Fax To: (575) 397-0397

Reported:  
30-Mar-20 12:24

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch 0032706 - General Prep - Organics****LCS (0032706-BS1)**

Prepared &amp; Analyzed: 27-Mar-20

GRO C6-C10	209	10.0	mg/kg	200		105	78.8-127			
DRO >C10-C28	207	10.0	mg/kg	200		103	80-132			
Total TPH C6-C28	416	10.0	mg/kg	400		104	81.3-128			
Surrogate: 1-Chlorooctane	52.4		mg/kg	50.0		105	44.3-144			
Surrogate: 1-Chlorooctadecane	53.2		mg/kg	50.0		106	42.2-156			

**LCS Dup (0032706-BS1)**

Prepared &amp; Analyzed: 27-Mar-20

GRO C6-C10	207	10.0	mg/kg	200		104	78.8-127	1.10	15.1	
DRO >C10-C28	202	10.0	mg/kg	200		101	80-132	2.08	17.1	
Total TPH C6-C28	410	10.0	mg/kg	400		102	81.3-128	1.59	15	
Surrogate: 1-Chlorooctane	52.1		mg/kg	50.0		104	44.3-144			
Surrogate: 1-Chlorooctadecane	52.5		mg/kg	50.0		105	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.
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 1 of 2

Company Name: BBC International, Inc.				P.O. #:				ANALYSIS REQUEST																
Project Manager: Cliff Brunson				Company: OXY																				
Address: P.O. Box 805				Attn: Wade																				
City: Hobbs		State: NM		Zip: 88241		Address:																		
Phone #: 575-397-6388		Fax #: 575-397-0397		City:																				
Project #:		Project Owner: Oxy		State: Zip:																				
Project Name: State 2 3 CTB (2-12-20)				Phone #:																				
Project Location: Eddy County, NM				Fax #:																				
Sampler Name: Simon Rendon																								
FOR LAB USE ONLY				MATRIX				PRESERV.		SAMPLING														
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	CL	BTEX	TPH	EXT						
H000892																								
1	North @ Surface	G	1										3/19/20	8:45 AM	✓	✓	✓							
2	East @ Surface												3/19/20	9:00 AM	✓	✓	✓							
3	West @ Surface												3/19/20	9:12 AM	✓	✓	✓							
4	South @ Surface												3/19/20	9:26 AM	✓	✓	✓							
5	SP1 @ Surface												3/19/20	9:44 AM	✓	✓	✓							
6	SP1 @ 1'												3/19/20	10:03 AM	✓	✓	✓							
7	SP1 @ 2'												3/19/20	10:18 AM	✓	✓	✓							
8	SP1 @ 3'												3/19/20	10:37 AM	✓	✓	✓							
9	SP2 @ Surface												3/19/20	10:48 AM	✓	✓	✓							
10	SP2 @ 1'												3/19/20	11:10 AM	✓	✓	✓							

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

Relinquished By:		Date: <u>3/16/20</u>	Received By: <u>Jodi Munson</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
		Time: <u>7:00 PM</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date:	Received By:	REMARKS: <u>Kenzie added BTEX, TPH to # 8. 3/27/20</u> <u>JA</u>	
		Time:			
Delivered By: (Circle One)			Sample Condition	CHECKED BY:	
Sampler - UPS - Bus - Other: <u>-4.40 / #113</u>			Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/>	<u>JA</u> (initials)	

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

**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST** 2 of 2

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: State 2 3 CTB (2-12-20)				State: Zip:																					
Project Location: Eddy County, NM				Phone #:																					
Sampler Name: Simon Rendon				Fax #:																					
FOR LAB USE ONLY																									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.		SAMPLING															
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	CL	BTEX	TPH	EXT							
H0005692																									
11	SP2 @ 2'												3/19/20	11:22 AM	✓	✓	✓								
12	SP2 @ 3'												3/19/20	11:36 AM	✓										
13	SP2 @ 4'												3/19/20	11:52 AM	✓										
14	SP2 @ 5'												3/19/20	12:08 PM	✓										
15	SP3 @ Surface												3/19/20	12:43 PM	✓	✓	✓								
16	SP3 @ 1'												3/19/20	12:56 PM	✓	✓	✓								
17	SP3 @ 2'												3/19/20	1:12 PM	✓										
18	SP4 @ Surface												3/19/20	1:23 PM	✓	✓	✓								
19	SP4 @ 1'												3/19/20	1:40 PM	✓	✓	✓								
20	SP4 @ 2'												3/19/20	1:53 PM	✓										

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Relinquished By:	Date: 3/19/20 Time: 5:00 PM	Received By: Jodi Benson	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: -4.42/#113			REMARKS:	
Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: (Initials) JTB		

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