



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 – Cedar Canyon 22 CTB**  
**(Leak Date: 6/10/20)**  
**Incident ID: NRM2018236487**

**OXY – Cedar Canyon 22 CTB Lact 2**  
**(Leak Date: 4/19/20)**  
**Incident ID: NRM2015534932**

This delineation workplan and remediation proposal addresses the releases associated with Incident ID #NRM2018236487 and Incident ID #NRM2015534932.

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 – SP4, SP6, and SP7 (BLUE shade on diagram) will be excavated to a depth of 2 feet. The leak area near SP5 (PINK shade on diagram) will be excavated to a depth of 3 feet.***

***Bottom confirmation samples will be collected every 75 feet. The estimated amount of soil to be excavated is 445 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	NRM2015534932
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?	57 (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 checked="" type="checkbox"/> Yes <input 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

Page 4

State of New Mexico  
Oil Conservation Division

Incident ID	NRM2015534932
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 DittrichTitle: Environmental CoordinatorSignature: Date: 7-17-20email: wade\_dittrich@oxy.comTelephone: (575) 390-2828**OCD Only**

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

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

Form C-141

State of New Mexico  
Oil Conservation Division

Page 5

Incident ID	NRM2015534932
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.

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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

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



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**OCD Only**

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

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

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



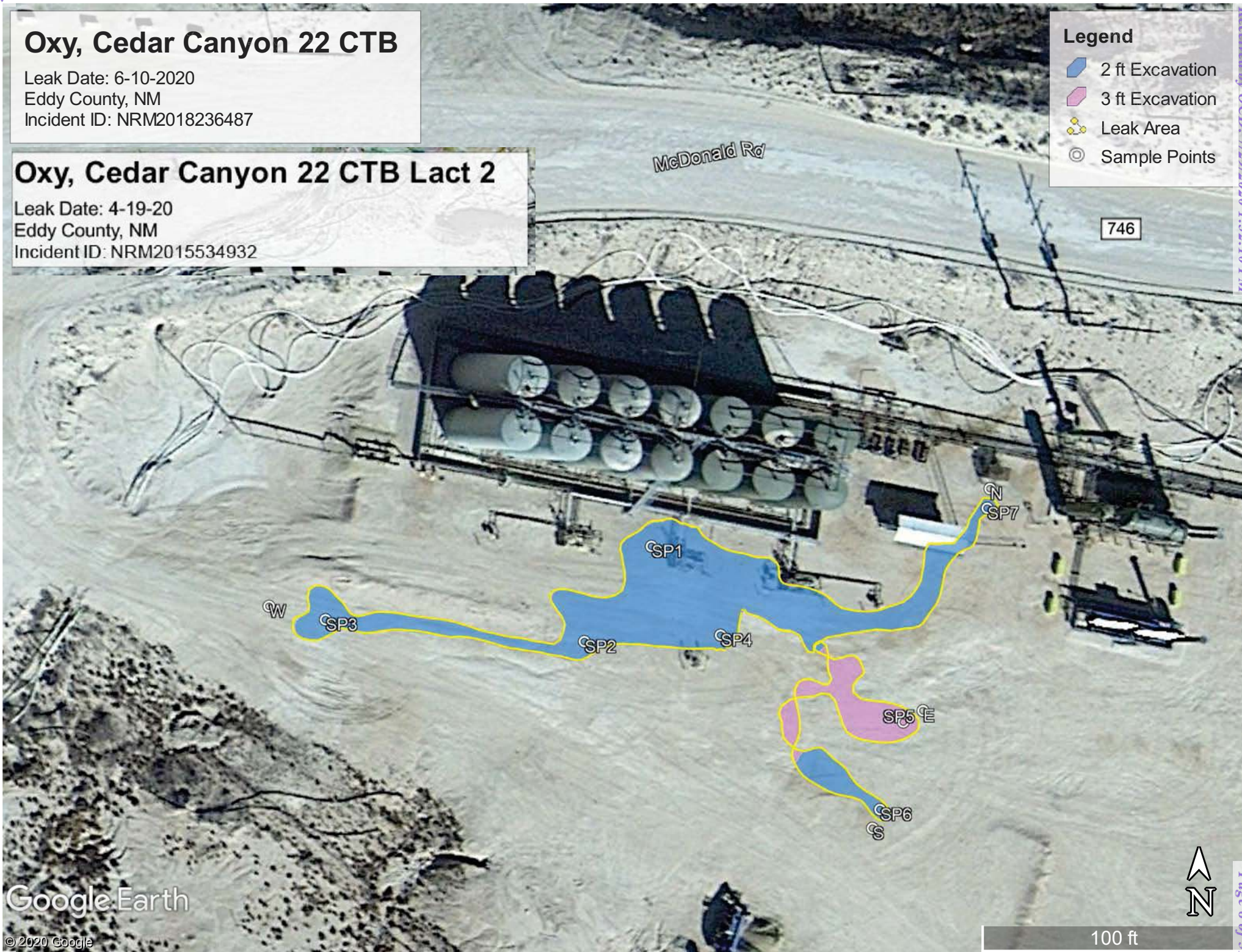
# Oxy, Cedar Canyon 22 CTB

Leak Date: 6-10-2020  
Eddy County, NM  
Incident ID: NRM2018236487

## Oxy, Cedar Canyon 22 CTB Lact 2

Leak Date: 4-19-20  
Eddy County, NM  
Incident ID: NRM2015534932

- Legend**
- 2 ft Excavation
  - 3 ft Excavation
  - Leak Area
  - Sample Points





Oxy Cedar Canyon 22 CTB (6-10-20)

Sample Points:

SP1 32.19969 W -103.97776

SP2 32.19960 W -103.97784

SP3 32.19962 W -103.97816

SP4 32.19960 W -103.97767

SP5 32.19951 W -103.97745

SP6 32.19942 W -103.97748

SP7 32.19973 W -103.97734



USGS Home  
Contact USGS  
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National Water Information System: Web Interface

USGS Water Resources

Data Category:  
Groundwater

Geographic Area:  
New Mexico

GO

Click to hideNews Bulletins

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- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 321234104002601

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

USGS 321234104002601 24S.29E.20.122

Eddy County, New Mexico  
Latitude 32°12'34", Longitude 104°00'26" NAD27  
Land-surface elevation 2,950 feet above NGVD29

Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

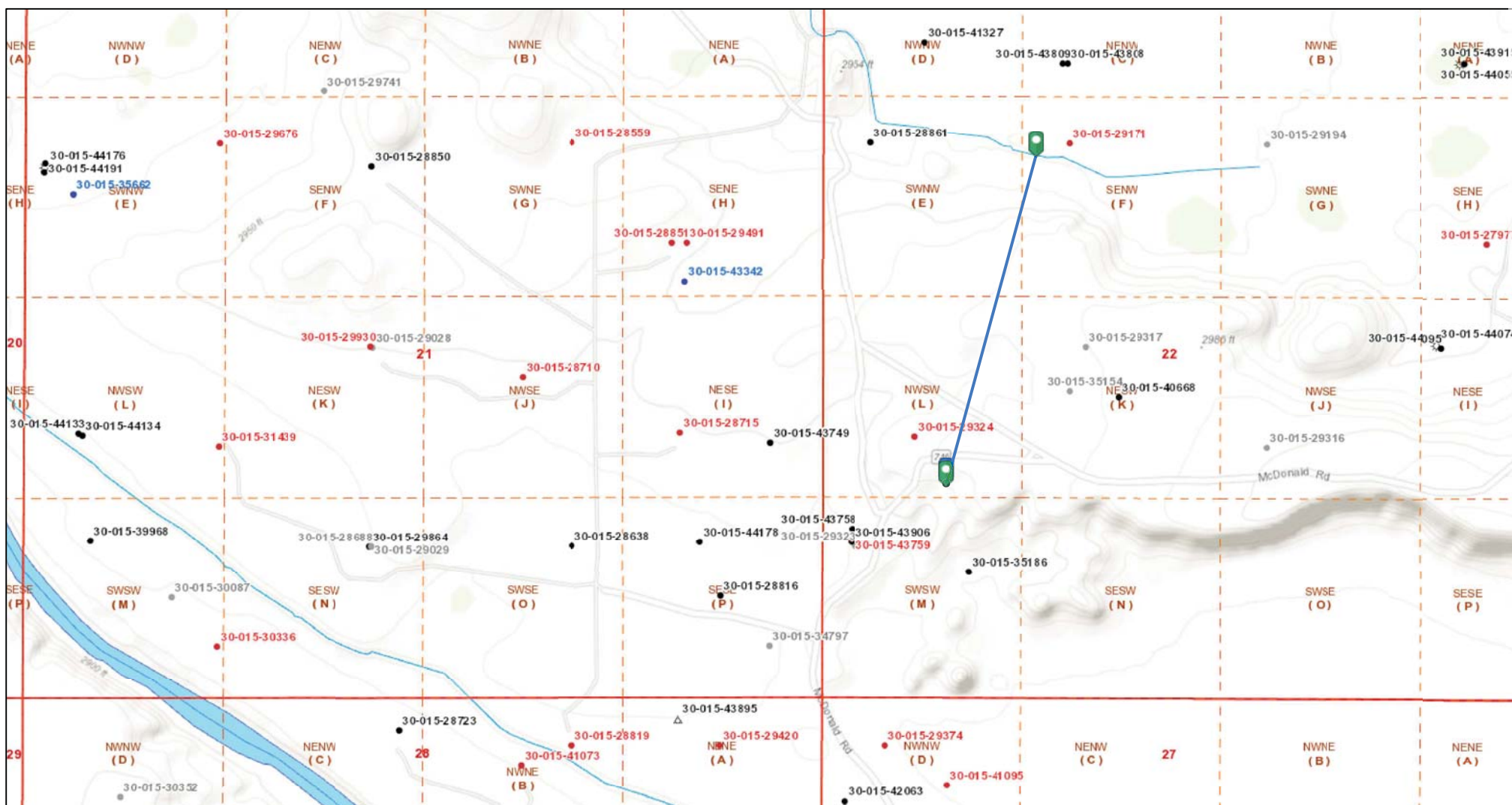
Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1974-12-17		D	57.11			2		Z	USGS	
1975-07-14		D	57.55			2		Z	USGS	

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	Z	Other.
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	S	Measured by personnel of reporting agency.
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](#)

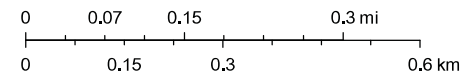
# Oxy Cedar Canyon 22 CTB (6-10-20) 2260 ft to h2o



6/18/2020 1:55:18 PM

Wells - Large Scale	CO2, Temporarily Abandoned	Injection, Active	Oil, Cancelled	Salt Water Injection, New
undefined	Gas, Active	Injection, Cancelled	Oil, New	Salt Water Injection, Plugged
Miscellaneous	Gas, Cancelled	Injection, New	Oil, Plugged	Salt Water Injection, Temporarily Abandoned
CO2, Active	Gas, New	Injection, Plugged	Oil, Temporarily Abandoned	Water, Active
CO2, Cancelled	Gas, Plugged	Injection, Temporarily Abandoned	Salt Water Injection, Active	Water, Cancelled
CO2, New	Gas, Temporarily Abandoned	Oil, Active	Salt Water Injection, Cancelled	Water, New
CO2, Plugged				

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,

# Oxy Cedar Canyon 22 CTB

Leak Date: 6-10-20  
Eddy County, NM  
Incident ID: NRM2018236487

## BLM CAVE KARST MAP

### Legend

-  Leak Area
-  Medium Potential

McDonald Rd

746



Google Earth

© 2020 Google

600 ft

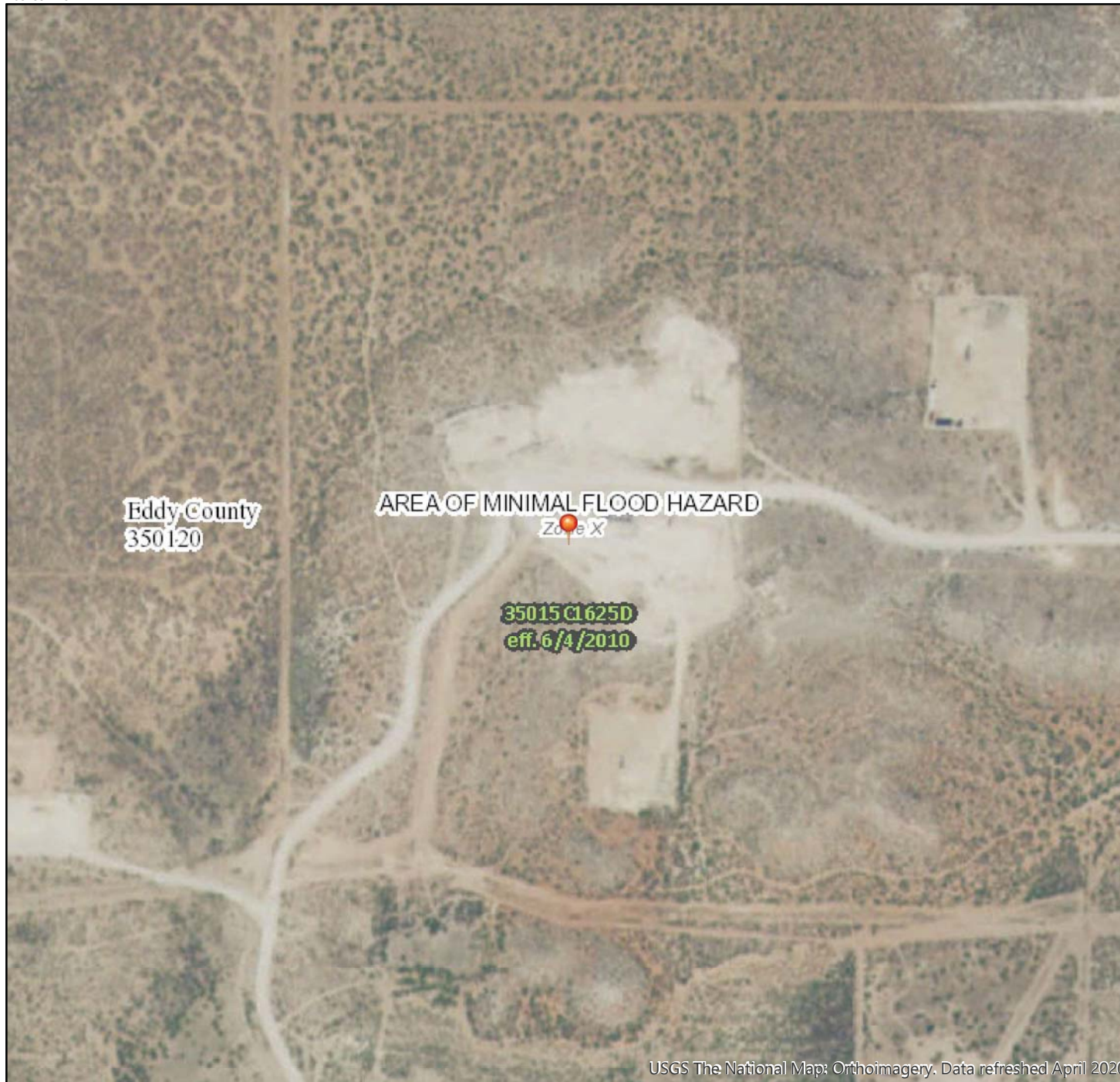




# National Flood Hazard Layer FIRMette



103°59'W 32°12'14"N



USGS The National Map: Orthoimagery. Data refreshed April 2020

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

1:6,000

103°58'23"W 32°11'43"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
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		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		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 6/17/2020 at 6:53 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: 7/29/2020 1:32:10 PM

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Laboratory Analytical Results Summary  
Oxy, Cedar Canyon 22 CTB (4-19-20 6-10-20)

		Sample ID	North @ Surface	East @ Surface	West @ Surface	South @ Surface
Analyte	Method	Date	6/22/20	6/22/20	6/22/20	6/22/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.093	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.117	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		1.01	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		1.22	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		48.0	112	32.0	64.0
GRO	TPH 8015M		17.2	<10.0	<10.0	<10.0
DRO	TPH 8015M		23.5	<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'	SP1 @ 4'
Analyte	Method	Date	6/22/20	6/22/20	6/22/20	6/22/20	6/22/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.200	<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		2.32	<0.050	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		2.13	<0.050	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		17.6	0.155	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		22.0	<0.300	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		160	16.0	1250	448	64.0
GRO	TPH 8015M		697	<10.0	<10.0	<10.0	n/a
DRO	TPH 8015M		25000	308	68.6	29.3	n/a
EXT DRO	TPH 8015M		3960	31.8	<10.0	<10.0	n/a

		Sample ID	SP2 @ Surface	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'
Analyte	Method	Date	6/22/20	6/22/20	6/22/20	6/22/20	6/22/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		0.657	<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		0.896	<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		7.82	<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		9.4	<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		9460	1800	1260	400	80.0
GRO	TPH 8015M		261	<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		10900	185	<10.0	n/a	n/a
EXT DRO	TPH 8015M		2300	34.0	<10.0	n/a	n/a

		Sample ID	SP3 @ Surface	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	6/22/20	6/22/20	6/22/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.200	<0.050	<0.050
Toluene	BTEX 8021B		2.59	<0.050	<0.050
Ethylbenzene	BTEX 8021B		3.62	<0.050	<0.050
Total Xylenes	BTEX 8021B		30.9	0.165	0.253
Total BTEX	BTEX 8021B		37.1	<0.300	<0.300
Chloride	SM4500Cl-B		272	48.0	48.0
GRO	TPH 8015M		1440	<10.0	<10.0
DRO	TPH 8015M		36700	288	78.1
EXT DRO	TPH 8015M		8240	41.4	16.2

Laboratory Analytical Results Summary  
Oxy, Cedar Canyon 22 CTB (4-19-20 6-10-20)

		Sample ID	SP4 @ Surface	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 4'
Analyte	Method	Date	6/22/20	6/22/20	6/22/20	6/23/20	6/23/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.200	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		2.65	<0.050	0.064	<0.050	<0.050
Ethylbenzene	BTEX 8021B		2.48	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		20.1	<0.150	1.79	<0.150	<0.150
Total BTEX	BTEX 8021B		25.2	<0.300	1.86	<0.300	<0.300
Chloride	SM4500Cl-B		14600	1010	1090	496	208
GRO	TPH 8015M		859	<10.0	105	<10.0	n/a
DRO	TPH 8015M		35200	205	1890	<10.0	n/a
EXT DRO	TPH 8015M		8570	24.5	268	<10.0	n/a

		Sample ID	SP5 @ Surface	SP5 @ 1'	SP5 @ 2'
Analyte	Method	Date	6/23/20	6/23/20	6/23/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.200	<0.050	<0.050
Toluene	BTEX 8021B		1.26	0.059	<0.050
Ethylbenzene	BTEX 8021B		1.8	<0.050	<0.050
Total Xylenes	BTEX 8021B		15.4	1.57	<0.150
Total BTEX	BTEX 8021B		18.5	1.63	<0.300
Chloride	SM4500Cl-B		448	32.0	48.0
GRO	TPH 8015M		308	45.5	<10.0
DRO	TPH 8015M		21600	858	291
EXT DRO	TPH 8015M		5430	134	46.3

		Sample ID	SP6 @ Surface	SP6 @ 1'	SP6 @ 2'	SP6 @ 3'
Analyte	Method	Date	6/23/20	6/23/20	6/23/20	6/23/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		30000	1960	512	400
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		15.8	<10.0	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a	n/a

		Sample ID	SP7 @ Surface	SP7 @ 1'	SP7 @ 2'	SP7 @ 3'
Analyte	Method	Date	6/23/20	6/23/20	6/23/20	6/23/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		39200	1720	576	304
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		26.3	<10.0	n/a	n/a
EXT DRO	TPH 8015M		18.8	<10.0	n/a	n/a



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June 29, 2020

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CEDAR CANYON 22 CTB

Enclosed are the results of analyses for samples received by the laboratory on 06/24/20 14:30.

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' at the beginning.

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:	06/24/2020	Sampling Date:	06/22/2020
Reported:	06/29/2020	Sampling Type:	Soil
Project Name:	CEDAR CANYON 22 CTB	Sampling Condition:	Cool & Intact
Project Number:	( 4-19-20 & 6-10-20 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY, NM		

**Sample ID: N @ SURFACE (H001659-01)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/25/2020	ND	2.10	105	2.00	9.68	
Toluene*	0.093	0.050	06/25/2020	ND	2.10	105	2.00	9.85	
Ethylbenzene*	0.117	0.050	06/25/2020	ND	2.13	106	2.00	10.0	
Total Xylenes*	1.01	0.150	06/25/2020	ND	6.22	104	6.00	10.2	
Total BTX	1.22	0.300	06/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/25/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	17.2	10.0	06/25/2020	ND	210	105	200	1.56	
DRO >C10-C28*	23.5	10.0	06/25/2020	ND	222	111	200	0.786	
EXT DRO >C28-C36	<10.0	10.0	06/25/2020	ND					

Surrogate: 1-Chlorooctane 107 % 44.3-144

Surrogate: 1-Chlorooctadecane 112 % 42.2-156

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 06/24/2020  
 Reported: 06/29/2020  
 Project Name: CEDAR CANYON 22 CTB  
 Project Number: ( 4-19-20 & 6-10-20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 06/22/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: E @ SURFACE (H001659-02)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/25/2020	ND	2.10	105	2.00	9.68	
Toluene*	<0.050	0.050	06/25/2020	ND	2.10	105	2.00	9.85	
Ethylbenzene*	<0.050	0.050	06/25/2020	ND	2.13	106	2.00	10.0	
Total Xylenes*	<0.150	0.150	06/25/2020	ND	6.22	104	6.00	10.2	
Total BTX	<0.300	0.300	06/25/2020	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/25/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2020	ND	208	104	200	5.93	
DRO >C10-C28*	<10.0	10.0	06/25/2020	ND	205	103	200	8.28	
EXT DRO >C28-C36	<10.0	10.0	06/25/2020	ND					

Surrogate: 1-Chlorooctane 98.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.8 % 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:	06/24/2020	Sampling Date:	06/22/2020
Reported:	06/29/2020	Sampling Type:	Soil
Project Name:	CEDAR CANYON 22 CTB	Sampling Condition:	Cool & Intact
Project Number:	( 4-19-20 & 6-10-20 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY, NM		

**Sample ID: W @ SURFACE (H001659-03)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/25/2020	ND	2.14	107	2.00	9.18	
Toluene*	<0.050	0.050	06/25/2020	ND	2.15	108	2.00	9.67	
Ethylbenzene*	<0.050	0.050	06/25/2020	ND	2.20	110	2.00	9.49	
Total Xylenes*	<0.150	0.150	06/25/2020	ND	6.44	107	6.00	9.82	
Total BTX	<0.300	0.300	06/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/25/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2020	ND	208	104	200	5.93	
DRO >C10-C28*	<10.0	10.0	06/25/2020	ND	205	103	200	8.28	
EXT DRO >C28-C36	<10.0	10.0	06/25/2020	ND					

Surrogate: 1-Chlorooctane 113 % 44.3-144

Surrogate: 1-Chlorooctadecane 114 % 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: 06/24/2020  
 Reported: 06/29/2020  
 Project Name: CEDAR CANYON 22 CTB  
 Project Number: ( 4-19-20 & 6-10-20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 06/22/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: S @ SURFACE (H001659-04)**

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	06/25/2020	ND	2.14	107	2.00	9.18		
Toluene*	<0.050	0.050	06/25/2020	ND	2.15	108	2.00	9.67		
Ethylbenzene*	<0.050	0.050	06/25/2020	ND	2.20	110	2.00	9.49		
Total Xylenes*	<0.150	0.150	06/25/2020	ND	6.44	107	6.00	9.82		
Total BTX	<0.300	0.300	06/25/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/25/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2020	ND	208	104	200	5.93	
DRO >C10-C28*	<10.0	10.0	06/25/2020	ND	205	103	200	8.28	
EXT DRO >C28-C36	<10.0	10.0	06/25/2020	ND					

Surrogate: 1-Chlorooctane 111 % 44.3-144

Surrogate: 1-Chlorooctadecane 113 % 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:	06/24/2020	Sampling Date:	06/22/2020
Reported:	06/29/2020	Sampling Type:	Soil
Project Name:	CEDAR CANYON 22 CTB	Sampling Condition:	Cool & Intact
Project Number:	( 4-19-20 & 6-10-20 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY, NM		

**Sample ID: SP 1 @ SURFACE (H001659-05)**

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	06/26/2020	ND	2.14	107	2.00	9.18	
Toluene*	2.32	0.200	06/26/2020	ND	2.15	108	2.00	9.67	
Ethylbenzene*	2.13	0.200	06/26/2020	ND	2.20	110	2.00	9.49	
Total Xylenes*	17.6	0.600	06/26/2020	ND	6.44	107	6.00	9.82	
Total BTX	22.0	1.20	06/26/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 149 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14800	16.0	06/25/2020	ND	432	108	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*	697	50.0	06/26/2020	ND	208	104	200	5.93	
DRO >C10-C28*	25000	50.0	06/26/2020	ND	205	103	200	8.28	
EXT DRO >C28-C36	3960	50.0	06/26/2020	ND					

Surrogate: 1-Chlorooctane 290 % 44.3-144

Surrogate: 1-Chlorooctadecane 1190 % 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: 06/24/2020  
 Reported: 06/29/2020  
 Project Name: CEDAR CANYON 22 CTB  
 Project Number: ( 4-19-20 & 6-10-20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 06/22/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 @ 1' (H001659-06)**

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	06/25/2020	ND	2.14	107	2.00	9.18	
Toluene*	<0.050	0.050	06/25/2020	ND	2.15	108	2.00	9.67	
Ethylbenzene*	<0.050	0.050	06/25/2020	ND	2.20	110	2.00	9.49	
<b>Total Xylenes*</b>	<b>0.155</b>	0.150	06/25/2020	ND	6.44	107	6.00	9.82	
Total BTX	<0.300	0.300	06/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1760	16.0	06/25/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2020	ND	208	104	200	5.93	
DRO >C10-C28*	308	10.0	06/25/2020	ND	205	103	200	8.28	
EXT DRO >C28-C36	31.8	10.0	06/25/2020	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-144

Surrogate: 1-Chlorooctadecane 119 % 42.2-156

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 06/24/2020  
 Reported: 06/29/2020  
 Project Name: CEDAR CANYON 22 CTB  
 Project Number: ( 4-19-20 & 6-10-20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 06/22/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 1 @ 2' (H001659-07)**

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	06/25/2020	ND	2.14	107	2.00	9.18		
Toluene*	<0.050	0.050	06/25/2020	ND	2.15	108	2.00	9.67		
Ethylbenzene*	<0.050	0.050	06/25/2020	ND	2.20	110	2.00	9.49		
Total Xylenes*	<0.150	0.150	06/25/2020	ND	6.44	107	6.00	9.82		
Total BTX	<0.300	0.300	06/25/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1250	16.0	06/25/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2020	ND	208	104	200	5.93	
DRO >C10-C28*	68.6	10.0	06/25/2020	ND	205	103	200	8.28	
EXT DRO >C28-C36	<10.0	10.0	06/25/2020	ND					

Surrogate: 1-Chlorooctane 81.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.5 % 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:	06/24/2020	Sampling Date:	06/22/2020
Reported:	06/29/2020	Sampling Type:	Soil
Project Name:	CEDAR CANYON 22 CTB	Sampling Condition:	Cool & Intact
Project Number:	( 4-19-20 & 6-10-20 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY, NM		

**Sample ID: SP 1 @ 3' (H001659-08)**

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	06/25/2020	ND	2.14	107	2.00	9.18	
Toluene*	<0.050	0.050	06/25/2020	ND	2.15	108	2.00	9.67	
Ethylbenzene*	<0.050	0.050	06/25/2020	ND	2.20	110	2.00	9.49	
Total Xylenes*	<0.150	0.150	06/25/2020	ND	6.44	107	6.00	9.82	
Total BTX	<0.300	0.300	06/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	06/25/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2020	ND	208	104	200	5.93	
DRO >C10-C28*	29.3	10.0	06/25/2020	ND	205	103	200	8.28	
EXT DRO >C28-C36	<10.0	10.0	06/25/2020	ND					

Surrogate: 1-Chlorooctane 96.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 105 % 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:	06/24/2020	Sampling Date:	06/22/2020
Reported:	06/29/2020	Sampling Type:	Soil
Project Name:	CEDAR CANYON 22 CTB	Sampling Condition:	Cool & Intact
Project Number:	( 4-19-20 & 6-10-20 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY, NM		

**Sample ID: SP 1 @ 4' (H001659-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/25/2020	ND	432	108	400	0.00		

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**Analytical Results For:**

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

Received:	06/24/2020	Sampling Date:	06/22/2020
Reported:	06/29/2020	Sampling Type:	Soil
Project Name:	CEDAR CANYON 22 CTB	Sampling Condition:	Cool & Intact
Project Number:	( 4-19-20 & 6-10-20 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY, NM		

**Sample ID: SP 2 @ SURFACE (H001659-10)**

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/25/2020	ND	2.14	107	2.00	9.18	
Toluene*	0.657	0.050	06/25/2020	ND	2.15	108	2.00	9.67	
Ethylbenzene*	0.896	0.050	06/25/2020	ND	2.20	110	2.00	9.49	
Total Xylenes*	7.82	0.150	06/25/2020	ND	6.44	107	6.00	9.82	
Total BTX	9.37	0.300	06/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 198 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9460	16.0	06/25/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	261	10.0	06/25/2020	ND	208	104	200	5.93	
DRO >C10-C28*	10900	10.0	06/25/2020	ND	205	103	200	8.28	
EXT DRO >C28-C36	2300	10.0	06/25/2020	ND					

Surrogate: 1-Chlorooctane 130 % 44.3-144

Surrogate: 1-Chlorooctadecane 517 % 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:	06/24/2020	Sampling Date:	06/22/2020
Reported:	06/29/2020	Sampling Type:	Soil
Project Name:	CEDAR CANYON 22 CTB	Sampling Condition:	Cool & Intact
Project Number:	( 4-19-20 & 6-10-20 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY, NM		

**Sample ID: SP 2 @ 1' (H001659-11)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/25/2020	ND	2.14	107	2.00	9.18	
Toluene*	<0.050	0.050	06/25/2020	ND	2.15	108	2.00	9.67	
Ethylbenzene*	<0.050	0.050	06/25/2020	ND	2.20	110	2.00	9.49	
Total Xylenes*	<0.150	0.150	06/25/2020	ND	6.44	107	6.00	9.82	
Total BTEX	<0.300	0.300	06/25/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1800	16.0	06/25/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2020	ND	208	104	200	5.93	
DRO >C10-C28*	185	10.0	06/25/2020	ND	205	103	200	8.28	
EXT DRO >C28-C36	34.0	10.0	06/25/2020	ND					

Surrogate: 1-Chlorooctane 92.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 112 % 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: 06/24/2020  
 Reported: 06/29/2020  
 Project Name: CEDAR CANYON 22 CTB  
 Project Number: ( 4-19-20 & 6-10-20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 06/22/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 2 @ 2' (H001659-12)**

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	06/25/2020	ND	2.14	107	2.00	9.18		
Toluene*	<0.050	0.050	06/25/2020	ND	2.15	108	2.00	9.67		
Ethylbenzene*	<0.050	0.050	06/25/2020	ND	2.20	110	2.00	9.49		
Total Xylenes*	<0.150	0.150	06/25/2020	ND	6.44	107	6.00	9.82		
Total BTX	<0.300	0.300	06/25/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1260	16.0	06/25/2020	ND	432	108	400	3.77	QM-07	

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	06/25/2020	ND	208	104	200	5.93	
DRO >C10-C28*	<10.0	10.0	06/25/2020	ND	205	103	200	8.28	
EXT DRO >C28-C36	<10.0	10.0	06/25/2020	ND					

Surrogate: 1-Chlorooctane 54.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 58.4 % 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:	06/24/2020	Sampling Date:	06/22/2020
Reported:	06/29/2020	Sampling Type:	Soil
Project Name:	CEDAR CANYON 22 CTB	Sampling Condition:	Cool & Intact
Project Number:	( 4-19-20 & 6-10-20 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY, NM		

**Sample ID: SP 2 @ 3' (H001659-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	06/25/2020	ND	432	108	400	3.77		

**Sample ID: SP 2 @ 4' (H001659-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/25/2020	ND	432	108	400	3.77		

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**Analytical Results For:**

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

Received: 06/24/2020  
 Reported: 06/29/2020  
 Project Name: CEDAR CANYON 22 CTB  
 Project Number: ( 4-19-20 & 6-10-20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 06/22/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 3 @ SURFACE (H001659-15)**

BTEx 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	06/26/2020	ND	2.14	107	2.00	9.18	
Toluene*	2.59	0.200	06/26/2020	ND	2.15	108	2.00	9.67	
Ethylbenzene*	3.62	0.200	06/26/2020	ND	2.20	110	2.00	9.49	
Total Xylenes*	30.9	0.600	06/26/2020	ND	6.44	107	6.00	9.82	
Total BTEX	37.1	1.20	06/26/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 202 % 73.3-129

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	06/25/2020	ND	432	108	400	3.77	

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*	1440	100	06/26/2020	ND	208	104	200	5.93	
DRO >C10-C28*	36700	100	06/26/2020	ND	205	103	200	8.28	
EXT DRO >C28-C36	8240	100	06/26/2020	ND					

Surrogate: 1-Chlorooctane 531 % 44.3-144

Surrogate: 1-Chlorooctadecane 1550 % 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:	06/24/2020	Sampling Date:	06/22/2020
Reported:	06/29/2020	Sampling Type:	Soil
Project Name:	CEDAR CANYON 22 CTB	Sampling Condition:	Cool & Intact
Project Number:	( 4-19-20 & 6-10-20 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY, NM		

**Sample ID: SP 3 @ 1' (H001659-16)**

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	06/25/2020	ND	2.14	107	2.00	9.18	
Toluene*	<0.050	0.050	06/25/2020	ND	2.15	108	2.00	9.67	
Ethylbenzene*	<0.050	0.050	06/25/2020	ND	2.20	110	2.00	9.49	
Total Xylenes*	0.165	0.150	06/25/2020	ND	6.44	107	6.00	9.82	
Total BTX	<0.300	0.300	06/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/25/2020	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2020	ND	208	104	200	5.93	
DRO >C10-C28*	288	10.0	06/25/2020	ND	205	103	200	8.28	
EXT DRO >C28-C36	41.4	10.0	06/25/2020	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-144

Surrogate: 1-Chlorooctadecane 128 % 42.2-156

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**Analytical Results For:**

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

Received:	06/24/2020	Sampling Date:	06/22/2020
Reported:	06/29/2020	Sampling Type:	Soil
Project Name:	CEDAR CANYON 22 CTB	Sampling Condition:	Cool & Intact
Project Number:	( 4-19-20 & 6-10-20 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY, NM		

**Sample ID: SP 3 @ 2' (H001659-17)**

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	06/25/2020	ND	2.14	107	2.00	9.18	
Toluene*	<0.050	0.050	06/25/2020	ND	2.15	108	2.00	9.67	
Ethylbenzene*	<0.050	0.050	06/25/2020	ND	2.20	110	2.00	9.49	
<b>Total Xylenes*</b>	<b>0.253</b>	0.150	06/25/2020	ND	6.44	107	6.00	9.82	
Total BTEx	<0.300	0.300	06/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/25/2020	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2020	ND	208	104	200	5.93	
DRO >C10-C28*	78.1	10.0	06/25/2020	ND	205	103	200	8.28	
EXT DRO >C28-C36	16.2	10.0	06/25/2020	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-144

Surrogate: 1-Chlorooctadecane 115 % 42.2-156

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**Analytical Results For:**

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

Received: 06/24/2020  
 Reported: 06/29/2020  
 Project Name: CEDAR CANYON 22 CTB  
 Project Number: ( 4-19-20 & 6-10-20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 06/22/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 4 @ SURFACE (H001659-18)**

BTEx 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	06/26/2020	ND	2.14	107	2.00	9.18	
Toluene*	2.65	0.200	06/26/2020	ND	2.15	108	2.00	9.67	
Ethylbenzene*	2.48	0.200	06/26/2020	ND	2.20	110	2.00	9.49	
Total Xylenes*	20.1	0.600	06/26/2020	ND	6.44	107	6.00	9.82	
Total BTEX	25.2	1.20	06/26/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 147 % 73.3-129

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14600	16.0	06/25/2020	ND	432	108	400	3.77	

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*	859	100	06/26/2020	ND	208	104	200	5.93	
DRO >C10-C28*	35200	100	06/26/2020	ND	205	103	200	8.28	
EXT DRO >C28-C36	8570	100	06/26/2020	ND					

Surrogate: 1-Chlorooctane 280 % 44.3-144

Surrogate: 1-Chlorooctadecane 1670 % 42.2-156

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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:	06/24/2020	Sampling Date:	06/22/2020
Reported:	06/29/2020	Sampling Type:	Soil
Project Name:	CEDAR CANYON 22 CTB	Sampling Condition:	Cool & Intact
Project Number:	( 4-19-20 & 6-10-20 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY, NM		

**Sample ID: SP 4 @ 1' (H001659-19)**

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	06/25/2020	ND	2.14	107	2.00	9.18	
Toluene*	<0.050	0.050	06/25/2020	ND	2.15	108	2.00	9.67	
Ethylbenzene*	<0.050	0.050	06/25/2020	ND	2.20	110	2.00	9.49	
Total Xylenes*	<0.150	0.150	06/25/2020	ND	6.44	107	6.00	9.82	
Total BTEX	<0.300	0.300	06/25/2020	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	06/25/2020	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2020	ND	208	104	200	5.93	
DRO >C10-C28*	205	10.0	06/25/2020	ND	205	103	200	8.28	
EXT DRO >C28-C36	24.5	10.0	06/25/2020	ND					

Surrogate: 1-Chlorooctane 94.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 115 % 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:	06/24/2020	Sampling Date:	06/22/2020
Reported:	06/29/2020	Sampling Type:	Soil
Project Name:	CEDAR CANYON 22 CTB	Sampling Condition:	Cool & Intact
Project Number:	( 4-19-20 & 6-10-20 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY, NM		

**Sample ID: SP 4 @ 2' (H001659-20)**

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/25/2020	ND	2.14	107	2.00	9.18	
<b>Toluene*</b>	<b>0.064</b>	0.050	06/25/2020	ND	2.15	108	2.00	9.67	
Ethylbenzene*	<0.050	0.050	06/25/2020	ND	2.20	110	2.00	9.49	
<b>Total Xylenes*</b>	<b>1.79</b>	0.150	06/25/2020	ND	6.44	107	6.00	9.82	
<b>Total BTEx</b>	<b>1.86</b>	0.300	06/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 159 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1090</b>	16.0	06/25/2020	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>105</b>	10.0	06/25/2020	ND	208	104	200	5.93	
<b>DRO &gt;C10-C28*</b>	<b>1890</b>	10.0	06/25/2020	ND	205	103	200	8.28	
<b>EXT DRO &gt;C28-C36</b>	<b>268</b>	10.0	06/25/2020	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-144

Surrogate: 1-Chlorooctadecane 167 % 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: 06/24/2020  
 Reported: 06/29/2020  
 Project Name: CEDAR CANYON 22 CTB  
 Project Number: ( 4-19-20 & 6-10-20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 06/23/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 4 @ 3' (H001659-21)**

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	06/25/2020	ND	2.14	107	2.00	9.18	
Toluene*	<0.050	0.050	06/25/2020	ND	2.15	108	2.00	9.67	
Ethylbenzene*	<0.050	0.050	06/25/2020	ND	2.20	110	2.00	9.49	
Total Xylenes*	<0.150	0.150	06/25/2020	ND	6.44	107	6.00	9.82	
Total BTX	<0.300	0.300	06/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	06/25/2020	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2020	ND	208	104	200	5.93	
DRO >C10-C28*	<10.0	10.0	06/25/2020	ND	205	103	200	8.28	
EXT DRO >C28-C36	<10.0	10.0	06/25/2020	ND					

Surrogate: 1-Chlorooctane 93.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 100 % 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: 06/24/2020  
 Reported: 06/29/2020  
 Project Name: CEDAR CANYON 22 CTB  
 Project Number: ( 4-19-20 & 6-10-20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 06/23/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 4 @ 4' (H001659-22)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	06/25/2020	ND	432	108	400	3.77		

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**Analytical Results For:**

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

Received:	06/24/2020	Sampling Date:	06/23/2020
Reported:	06/29/2020	Sampling Type:	Soil
Project Name:	CEDAR CANYON 22 CTB	Sampling Condition:	Cool & Intact
Project Number:	( 4-19-20 & 6-10-20 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY, NM		

**Sample ID: SP 5 @ SURFACE (H001659-23)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	06/26/2020	ND	2.14	107	2.00	9.18	
Toluene*	1.26	0.200	06/26/2020	ND	2.15	108	2.00	9.67	
Ethylbenzene*	1.80	0.200	06/26/2020	ND	2.20	110	2.00	9.49	
Total Xylenes*	15.4	0.600	06/26/2020	ND	6.44	107	6.00	9.82	
Total BTEX	18.5	1.20	06/26/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	06/25/2020	ND	432	108	400	3.77		

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*	308	100	06/26/2020	ND	208	104	200	5.93	
DRO >C10-C28*	21600	100	06/26/2020	ND	205	103	200	8.28	
EXT DRO >C28-C36	5430	100	06/26/2020	ND					

Surrogate: 1-Chlorooctane 123 % 44.3-144

Surrogate: 1-Chlorooctadecane 1080 % 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: 06/24/2020  
 Reported: 06/29/2020  
 Project Name: CEDAR CANYON 22 CTB  
 Project Number: ( 4-19-20 & 6-10-20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 06/23/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 5 @ 1' (H001659-24)**

BTX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/25/2020	ND	2.14	107	2.00	9.18	
<b>Toluene*</b>	<b>0.059</b>	0.050	06/25/2020	ND	2.15	108	2.00	9.67	
Ethylbenzene*	<0.050	0.050	06/25/2020	ND	2.20	110	2.00	9.49	
<b>Total Xylenes*</b>	<b>1.57</b>	0.150	06/25/2020	ND	6.44	107	6.00	9.82	
<b>Total BTX</b>	<b>1.63</b>	0.300	06/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 73.3-129

Chloride, SM4500CI-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	06/25/2020	ND	432	108	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>45.5</b>	10.0	06/25/2020	ND	208	104	200	5.93	
<b>DRO &gt;C10-C28*</b>	<b>858</b>	10.0	06/25/2020	ND	205	103	200	8.28	
<b>EXT DRO &gt;C28-C36</b>	<b>134</b>	10.0	06/25/2020	ND					

Surrogate: 1-Chlorooctane 98.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 136 % 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: 06/24/2020  
 Reported: 06/29/2020  
 Project Name: CEDAR CANYON 22 CTB  
 Project Number: ( 4-19-20 & 6-10-20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 06/23/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 5 @ 2' (H001659-25)**

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	06/25/2020	ND	2.14	107	2.00	9.18	
Toluene*	<0.050	0.050	06/25/2020	ND	2.15	108	2.00	9.67	
Ethylbenzene*	<0.050	0.050	06/25/2020	ND	2.20	110	2.00	9.49	
Total Xylenes*	<0.150	0.150	06/25/2020	ND	6.44	107	6.00	9.82	
Total BTX	<0.300	0.300	06/25/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/25/2020	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2020	ND	208	104	200	5.93	
DRO >C10-C28*	291	10.0	06/25/2020	ND	205	103	200	8.28	
EXT DRO >C28-C36	46.3	10.0	06/25/2020	ND					

Surrogate: 1-Chlorooctane 95.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 117 % 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:	06/24/2020	Sampling Date:	06/23/2020
Reported:	06/29/2020	Sampling Type:	Soil
Project Name:	CEDAR CANYON 22 CTB	Sampling Condition:	Cool & Intact
Project Number:	( 4-19-20 & 6-10-20 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY, NM		

**Sample ID: SP 6 @ SURFACE (H001659-26)**

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	06/26/2020	ND	2.14	107	2.00	9.18		
Toluene*	<0.050	0.050	06/26/2020	ND	2.15	108	2.00	9.67		
Ethylbenzene*	<0.050	0.050	06/26/2020	ND	2.20	110	2.00	9.49		
Total Xylenes*	<0.150	0.150	06/26/2020	ND	6.44	107	6.00	9.82		
Total BTX	<0.300	0.300	06/26/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	30000	16.0	06/25/2020	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2020	ND	217	109	200	12.7	
DRO >C10-C28*	15.8	10.0	06/26/2020	ND	224	112	200	12.8	
EXT DRO >C28-C36	<10.0	10.0	06/26/2020	ND					

Surrogate: 1-Chlorooctane 124 % 44.3-144

Surrogate: 1-Chlorooctadecane 134 % 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: 06/24/2020  
 Reported: 06/29/2020  
 Project Name: CEDAR CANYON 22 CTB  
 Project Number: ( 4-19-20 & 6-10-20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 06/23/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 6 @ 1' (H001659-27)**

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	06/26/2020	ND	2.11	106	2.00	4.67		
Toluene*	<0.050	0.050	06/26/2020	ND	2.11	105	2.00	4.45		
Ethylbenzene*	<0.050	0.050	06/26/2020	ND	2.15	108	2.00	4.63		
Total Xylenes*	<0.150	0.150	06/26/2020	ND	6.30	105	6.00	4.84		
Total BTX	<0.300	0.300	06/26/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1960	16.0	06/25/2020	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/25/2020	ND	217	109	200	12.7	
DRO >C10-C28*	<10.0	10.0	06/25/2020	ND	224	112	200	12.8	
EXT DRO >C28-C36	<10.0	10.0	06/25/2020	ND					

Surrogate: 1-Chlorooctane 78.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 82.7 % 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:	06/24/2020	Sampling Date:	06/23/2020
Reported:	06/29/2020	Sampling Type:	Soil
Project Name:	CEDAR CANYON 22 CTB	Sampling Condition:	Cool & Intact
Project Number:	( 4-19-20 & 6-10-20 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY, NM		

**Sample ID: SP 6 @ 2' (H001659-28)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	512	16.0	06/25/2020	ND	432	108	400	3.77		

**Sample ID: SP 6 @ 3' (H001659-29)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	06/25/2020	ND	432	108	400	3.77	

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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:	06/24/2020	Sampling Date:	06/23/2020
Reported:	06/29/2020	Sampling Type:	Soil
Project Name:	CEDAR CANYON 22 CTB	Sampling Condition:	Cool & Intact
Project Number:	( 4-19-20 & 6-10-20 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY, NM		

**Sample ID: SP 7 @ SURFACE (H001659-30)**

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	06/26/2020	ND	2.11	106	2.00	4.67	
Toluene*	<0.050	0.050	06/26/2020	ND	2.11	105	2.00	4.45	
Ethylbenzene*	<0.050	0.050	06/26/2020	ND	2.15	108	2.00	4.63	
Total Xylenes*	<0.150	0.150	06/26/2020	ND	6.30	105	6.00	4.84	
Total BTX	<0.300	0.300	06/26/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	39200	16.0	06/25/2020	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2020	ND	217	109	200	12.7	
DRO >C10-C28*	26.3	10.0	06/26/2020	ND	224	112	200	12.8	
EXT DRO >C28-C36	18.8	10.0	06/26/2020	ND					

Surrogate: 1-Chlorooctane 126 % 44.3-144

Surrogate: 1-Chlorooctadecane 131 % 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: 06/24/2020  
 Reported: 06/29/2020  
 Project Name: CEDAR CANYON 22 CTB  
 Project Number: ( 4-19-20 & 6-10-20 )  
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 06/23/2020  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP 7 @ 1' (H001659-31)**

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	06/26/2020	ND	2.11	106	2.00	4.67		
Toluene*	<0.050	0.050	06/26/2020	ND	2.11	105	2.00	4.45		
Ethylbenzene*	<0.050	0.050	06/26/2020	ND	2.15	108	2.00	4.63		
Total Xylenes*	<0.150	0.150	06/26/2020	ND	6.30	105	6.00	4.84		
Total BTX	<0.300	0.300	06/26/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1720	16.0	06/25/2020	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/26/2020	ND	217	109	200	12.7	
DRO >C10-C28*	<10.0	10.0	06/26/2020	ND	224	112	200	12.8	
EXT DRO >C28-C36	<10.0	10.0	06/26/2020	ND					

Surrogate: 1-Chlorooctane 132 % 44.3-144

Surrogate: 1-Chlorooctadecane 140 % 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:	06/24/2020	Sampling Date:	06/23/2020
Reported:	06/29/2020	Sampling Type:	Soil
Project Name:	CEDAR CANYON 22 CTB	Sampling Condition:	Cool & Intact
Project Number:	( 4-19-20 & 6-10-20 )	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY COUNTY, NM		

**Sample ID: SP 7 @ 2' (H001659-32)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	06/25/2020	ND	400	100	400	3.92	

**Sample ID: SP 7 @ 3' (H001659-33)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	06/25/2020	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager





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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.
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 Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager

**CARDINAL LABORATORIES**

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

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

184

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: Cedar Canyon 22 CTB (4-19-20 & 6-10-20)				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		CL	BTEX	TPH	EXT				
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL					OTHER :	DATE	TIME	
H001659	N @ Surface	9	1										6/22/20	10:05 AM	✓	✓	✓		
2	E @ Surface												6/22/20	10:16 AM	✓	✓	✓		
3	W @ Surface												6/22/20	10:36 AM	✓	✓	✓		
4	S @ Surface												6/22/20	10:52 AM	✓	✓	✓		
5	SP1 @ Surface												6/22/20	11:12 AM	✓	✓	✓		
6	SP1 @ 1'												6/22/20	11:24 AM	✓	✓	✓		
7	SP1 @ 2'												6/22/20	11:41 AM	✓	✓	✓		
8	SP1 @ 3'												6/22/20	11:47 AM	✓	✓	✓		
9	SP1 @ 4'												6/22/20	11:52 AM	✓				
10	SP2 @ Surface												6/22/20	11:57 AM	✓	✓	✓		

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Relinquished By:	Date: 6-24-20	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Simon Rendon	Time: 7:00 AM	Israel Pena	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date: 6-24-20	Received By:	REMARKS:	
Israel Pena	Time: 8:00 AM	Samara Aldrete		
Delivered By: (Circle One)		Sample Condition	CHECKED BY:	
Sampler - UPS - Bus - Other:		Cool Intact	(Initials)	
0.4c #113		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	TO	

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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

384

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: Cedar Canyon 22 CTB (4-19-20 & 6-10-20)				State: Zip:																			
Project Location: Eddy County, NM				Phone #:																			
Sampler Name: Simon Rendon				Fax #:																			
FOR LAB USE ONLY																							
Lab I.D.		Sample I.D.		MATRIX				PRESERV.		SAMPLING													

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

484

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:		City:															
Project #:		Project Owner: Oxy		State:		Zip:															
Project Name: Cedar Canyon 22 CTB (4-19-20 & 6-10-20)				Phone #:																	
Project Location: Eddy County, NM				Fax #:																	
Sampler Name: Simon Rendon																					
FOR LAB USE ONLY																					
Lab I.D.		Sample I.D.		(GRAB OR C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING		CL		BTX		TPH		EXT	
				GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :	
H001659		SP7 @ 1'		↓		↓		↓		↓		↓		↓		↓		↓		↓	
31		SP7 @ 2'		↓		↓		↓		↓		↓		↓		↓		↓		↓	
32		SP7 @ 3'		↓		↓		↓		↓		↓		↓		↓		↓		↓	
33																					

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Relinquished By:	Date: 6-24-20	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Simon Rendon	Time: 10:00 AM	Israel Pena	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date: 6-24-20	Received By:	REMARKS:	
Israel Pena	Time: 1:43 PM	Jamara V. Dela Cruz		
Delivered By: (Circle One)		Sample Condition	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:		Cool Intact		
		<input type="checkbox"/> Yes <input type="checkbox"/> No		
		<input type="checkbox"/> Yes <input type="checkbox"/> No		

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