

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/REMEDIATION WORKPLAN

OXY – CEDAR CANYON WTF

(Leak Date: 6/29/19)

Incident Reference #: NRM1935051494

This delineation workplan and remediation proposal addresses the releases associated with Incident Reference #: NRM1935051494.

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, and SP5 (WHITE shade on diagram) will require zero remediation. The leak area near SP3 (RED shade on diagram) will be excavated to a depth of 3 feet. The leak area near SP2 (PURPLE shade on diagram) will be excavated to a depth of 1 foot.

Bottom and sidewall confirmation samples will be collected every 50 feet. The estimated amount of soil to be excavated is 206 cubic yards. The remediation will be completed within 90 days of approval.

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

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

(ft bgs)

Yes No

Form C-141 Page 3

State of New Mexico Oil Conservation Division

What is the shallowest depth to groundwater beneath the area affected by the release?

Did this release impact groundwater or surface water?

Incident ID		
District RP	NRM1935051494	
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.

Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?						
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ■ No					
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ■ 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?						
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes 🖪 No					
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ■ No					
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ■ No					
Are the lateral extents of the release overlying a subsurface mine?						
Are the lateral extents of the release overlying an unstable area such as karst geology?	■ Yes □ No					
Are the lateral extents of the release within a 100-year floodplain?	■ Yes □ No					
Did the release impact areas not on an exploration, development, production, or storage site?	■ Yes □ No					
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil					
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	
District RP	NRM1935051494
Facility ID	
Application ID	

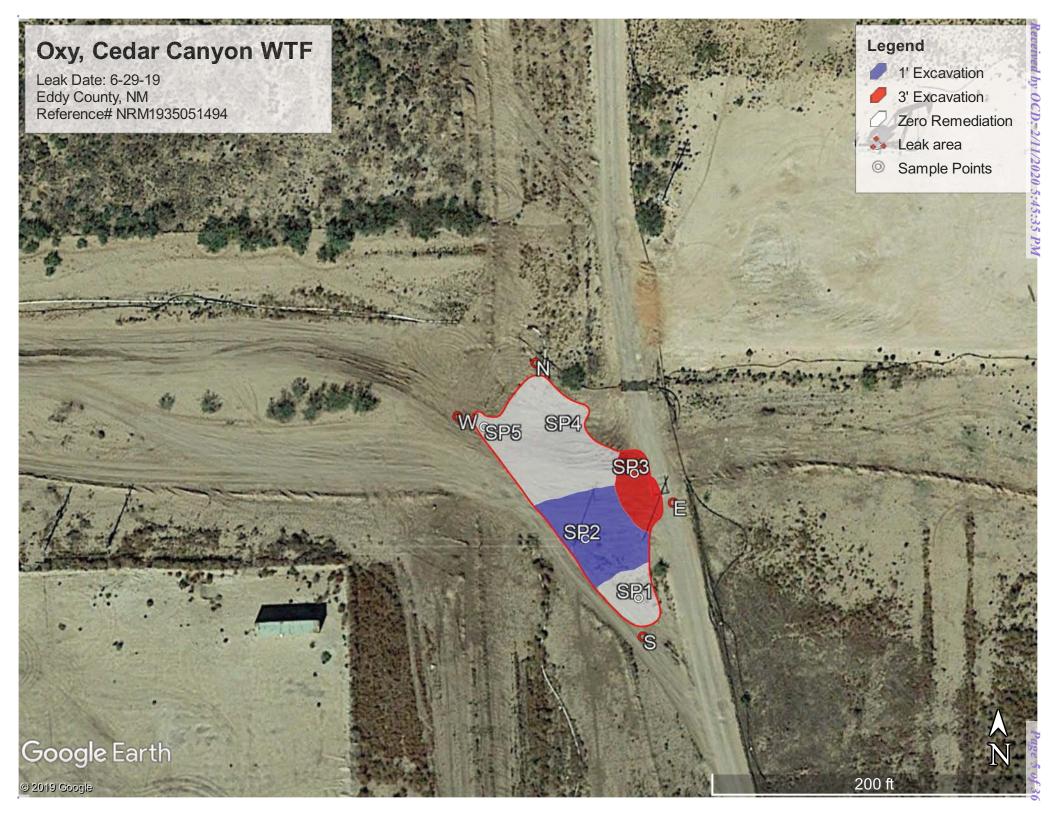
I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a thr addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	cifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name: Wade Dittrich	Title: Environmental Coordinator
Signature: Nade Litte	Date: 2-10-2020
email: wade_dittrich@oxy.com	Telephone: (575) 390-2828
OCD Only	
Received by:	Date:

Form C-141 Page 5 State of New Mexico
Oil Conservation Division

Incident ID		
District RP	NRM1935051494	
Facility ID		
Application ID		

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the pla	n.
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)
Position of the control of the contr	
<u>Deferral Requests Only</u> : Each of the following items must be confirmed as part of an	y request for deferral of remediation.
Contamination must be in areas immediately under or around production equipment deconstruction.	where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health, the environment, or	r groundwater.
I hereby certify that the information given above is true and complete to the best of my k rules and regulations all operators are required to report and/or file certain release notific which may endanger public health or the environment. The acceptance of a C-141 report liability should their operations have failed to adequately investigate and remediate contastiface water, human health or the environment. In addition, OCD acceptance of a C-14 responsibility for compliance with any other federal, state, or local laws and/or regulation	ations and perform corrective actions for releases t by the OCD does not relieve the operator of amination that pose a threat to groundwater, 1 report does not relieve the operator of
Printed Name: Wade Dittrich Title: Environ	nmental Coordinator
Signature: Wale Little Date: Z'10	1-2020
email: wade_dittrich@oxy.com Telephone: (57	5) 390-2828
OCD Only	
Received by: Date:	
Approved	Denied Deferral Approved
Signature: Date:	



Oxy, Cedar Canyon WTF 6-29-19

Sample Points

SP1, N 32.22231 W -103.97906

SP2, N 32.22241 W -103.97916

SP3, N 32.22252 W -103.97907

SP4, N 32.22261 W -103.97920

SP5, N 32.22259 W -103.97937

North, N 32.22270 W -103.97926

East, N 32. 22247 W -103.97899

West, N 32.22261 W -103.97942

South, N 32.22224 W -103.97905

Oxy, Cedar Canyon WTF
U/L D, Section 15, T24S, R29E
Groundwater: 75'-100'





USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:	Geographic Area:		_
Groundwater ~	New Mexico	~	GO

Click to hideNews Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 321355104012001

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 321355104012001 24S.29E.07.14444

Eddy County, New Mexico Latitude 32°13'55", Longitude 104°01'20" NAD27 Land-surface elevation 2,983 feet above NAVD88 The depth of the well is 160 feet below land surface.

This well is completed in the Castile Formation (312CSTL) local aquifer.

Output formats

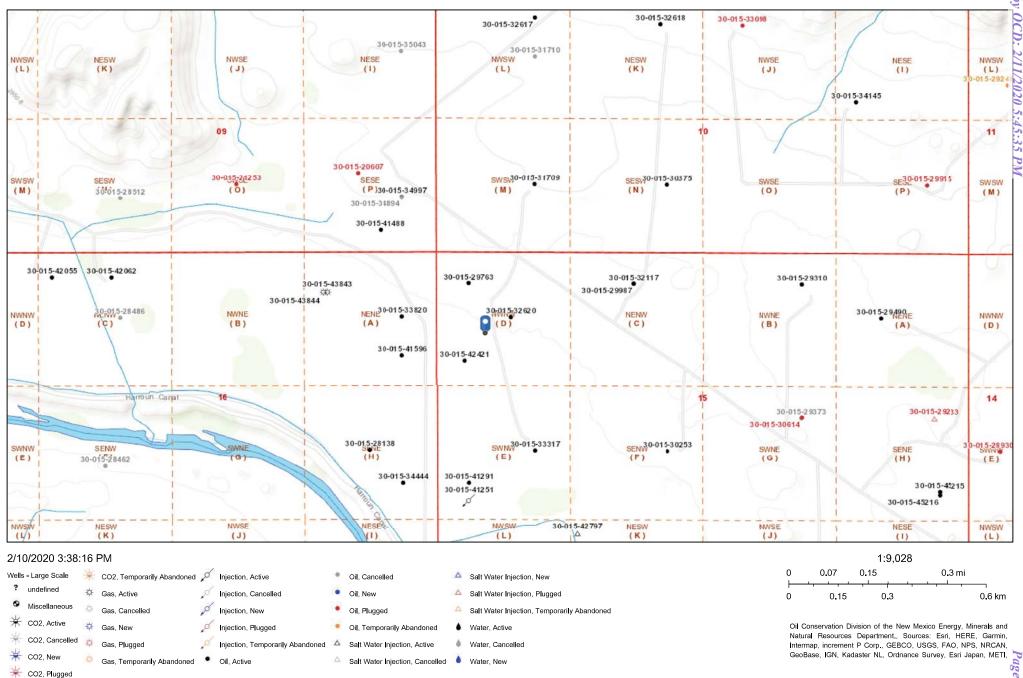
Table of data
Tab-separated data
Graph of data
Reselect period

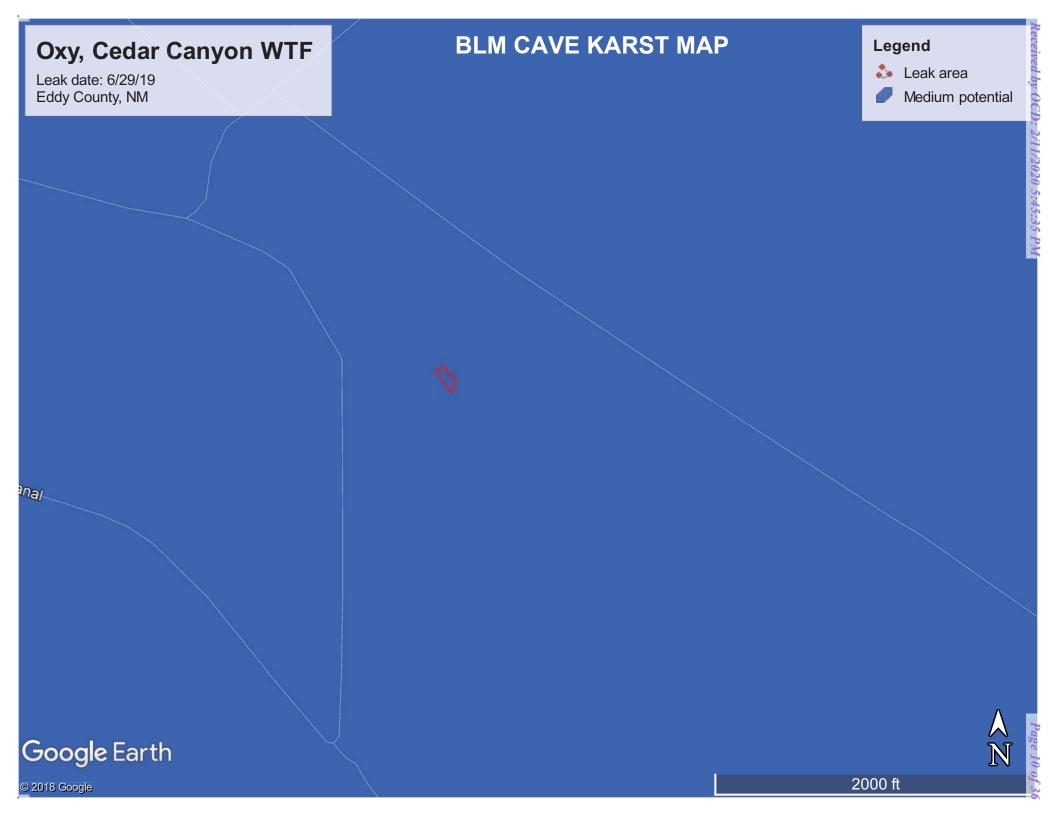
Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurema
1983-02-01		D	47.14			2		U		
1987-10-16		D	51.84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

Explanation

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

Oxy, Cedar Canyon WTF (6-29-19) 1,900 ft to h2o



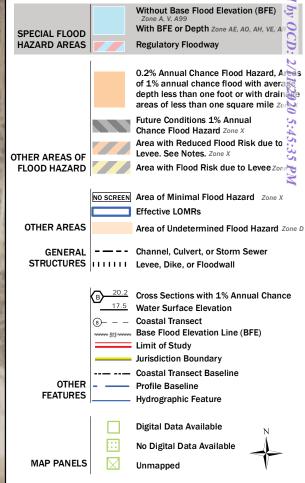


National Flood Hazard Layer FIRMette AREA OF MINIMAL FLOOD HAZARD Eddy County 350120

Zone A



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



9

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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/10/2019 at 6:53:21 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.

USGS The National Map: Orthoimagery. Data refreshed April, 2019.

Feet 1:6,000 32°13'6.39"N
250 500 1,000 1,500 2,000

Laboratory Analytical Results Summary Oxy, Cedar Canyon WTF 6-29-19

		Sample ID	North @ Surface	East @ Surface	West @ Surface	South @ Surface
Analyte	Method	Date	12/24/19	12/24/19	12/24/19	12/24/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.025	<0.025	<0.025	<0.025
Toluene	BTEX 8021B		<0.025	<0.025	<0.025	<0.025
Ethylbenzene	BTEX 8021B		<0.025	<0.025	<0.025	<0.025
Total Xylenes	BTEX 8021B		<0.075	<0.075	<0.075	<0.075
Total BTEX	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Chloride	SM4500CI-B		32.0	32.0	32.0	<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'
			Juliace	351661	3F1@2
Analyte	Method	Date	12/24/19	12/24/19	12/24/19
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.025	<0.025	n/a
Toluene	BTEX 8021B		<0.025	<0.025	n/a
Ethylbenzene	BTEX 8021B		<0.025	<0.025	n/a
Total Xylenes	BTEX 8021B		<0.075	<0.075	n/a
Total BTEX	BTEX 8021B		<0.150	<0.150	n/a
Chloride	SM4500CI-B		368	48.0	32.0
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

			0000		
			SP2 @		
		Sample ID	Surface	SP2 @ 1'	SP2 @ 2'
Analyte	Method	Date	12/24/19	12/24/19	12/24/19
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.025	0.035	n/a
Toluene	BTEX 8021B		<0.025	0.078	n/a
Ethylbenzene	BTEX 8021B		<0.025	0.030	n/a
Total Xylenes	BTEX 8021B		<0.075	<0.075	n/a
Total BTEX	BTEX 8021B		<0.150	0.202	n/a
Chloride	SM4500CI-B		720	80.0	17.0
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

		Sample ID	SP3 @ Surface	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'
Analyte	Method	Date	12/24/19	12/24/19	12/24/19	12/27/19	12/27/19
-			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.025	<0.025	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.025	<0.025	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.025	<0.025	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.075	<0.075	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a
Chloride	SM4500CI-B		80.0	1020	656	80.0	32.0
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a

		Sample ID	SP4 @ Surface	SP4 @ 1'	SP4 @ 2'
Analyte	Method	Date	12/27/19	12/27/19	12/27/19
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.025	<0.025	n/a
Toluene	BTEX 8021B		<0.025	<0.025	n/a
Ethylbenzene	BTEX 8021B		<0.025	<0.025	n/a
Total Xylenes	BTEX 8021B		<0.075	<0.075	n/a
Total BTEX	BTEX 8021B		<0.150	<0.150	n/a
Chloride	SM4500CI-B		80.0	64.0	32.0
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

			SP5 @			
		Sample ID	Surface	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'
Analyte	Method	Date	12/27/19	12/27/19	12/27/19	12/27/19
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.025	<0.025	n/a	n/a
Toluene	BTEX 8021B		<0.025	<0.025	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.025	<0.025	n/a	n/a
Total Xylenes	BTEX 8021B		<0.075	<0.075	n/a	n/a
Total BTEX	BTEX 8021B		<0.150	<0.150	n/a	n/a
Chloride	SM4500CI-B		96.0	336	80.0	48.0
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a	n/a
EXT DRO	TPH 8015M		<10.0	<10.0	n/a	n/a



January 09, 2020

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CEDAR CANYON WTF

Enclosed are the results of analyses for samples received by the laboratory on 01/03/20 13:50.

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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Celeg D. Keens

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,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received:

01/03/2020

Sampling Date:

12/24/2019

Reported:

01/09/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON WTF

Sampling Condition:

Cool & Intact

Project Number:

06-29-19

Sample Received By:

Tamara Oldaker

Project Location:

OXY - EDDY COUNTY, NM

Sample ID: NORTH @ SURFACE (H000019-01)

BTEX 8260B	mg/kg		Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	01/06/2020	ND	2.10	105	2.00	1.38	
Toluene*	<0.025	0.025	01/06/2020	ND	2.09	104	2.00	3.19	
Ethylbenzene*	<0.025	0.025	01/06/2020	ND	2.15	107	2.00	2.92	
Total Xylenes*	<0.075	0.075	01/06/2020	ND	6.39	107	6.00	3.64	
Total BTEX	<0.150	0.150	01/06/2020	ND					
Surrogate: Dibromofluoromethane	105	% 90.4-11	1						
Surrogate: Toluene-d8	98.0	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	90.9	% 80.1-12	1						
Chloride, SM4500Cl-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	01/06/2020	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2020	ND	198	99.0	200	5.88	
DRO >C10-C28*	<10.0	10.0	01/07/2020	ND	227	113	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	01/07/2020	ND					
Surrogate: 1-Chlorooctane	64.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	65.5	% 37.6-14	7						

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 and any other cause whistoever 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 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 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.



Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received:

01/03/2020

Sampling Date:

12/24/2019

Reported:

01/09/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON WTF

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

06-29-19

Project Location:

OXY - EDDY COUNTY, NM

Sample ID: EAST @ SURFACE (H000019-02)

BTEX 8260B	mg	/kg	Analyze	Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	01/06/2020	ND	2.10	105	2.00	1.38	
Toluene*	<0.025	0.025	01/06/2020	ND	2.09	104	2.00	3.19	
Ethylbenzene*	<0.025	0.025	01/06/2020	ND	2.15	107	2.00	2.92	
Total Xylenes*	<0.075	0.075	01/06/2020	ND	6.39	107	6.00	3.64	
Total BTEX	<0.150	0.150	01/06/2020	ND					
Surrogate: Dibromofluoromethane	105	% 90.4-11	1						
Surrogate: Toluene-d8	98.2	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	90.8	% 80.1-12	1						
Chloride, SM4500Cl-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	01/06/2020	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2020	ND	198	99.0	200	5.88	
DRO >C10-C28*	<10.0	10.0	01/07/2020	ND	227	113	200	6.34	
EXT DRO >C28-C36	<10.0	10.0	01/07/2020	ND					
Surrogate: 1-Chlorooctane	66.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	65.8	% 37.6-14	7						

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 and 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 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 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.

Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received:

BTEX 8260B

01/03/2020

Sampling Date:

12/24/2019

Reported:

01/09/2020

mg/kg

Sampling Type:

Soil

Project Name:

CEDAR CANYON WTF

Sampling Condition:

Cool & Intact

Project Number:

06-29-19

Sample Received By:

Tamara Oldaker

Project Location:

OXY - EDDY COUNTY, NM

Sample ID: WEST @ SURFACE (H000019-03)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	01/06/2020	ND	2.10	105	2.00	1.38	
Toluene*	<0.025	0.025	01/06/2020	ND	2.09	104	2.00	3.19	
Ethylbenzene*	<0.025	0.025	01/06/2020	ND	2.15	107	2.00	2.92	
Total Xylenes*	<0.075	0.075	01/06/2020	ND	6.39	107	6.00	3.64	
Total BTEX	<0.150	0.150	01/06/2020	ND					
Surrogate: Dibromofluoromethane	105	% 90.4-11	1						
Surrogate: Toluene-d8	98.2	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	92.8	% 80.1-12	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/06/2020	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2020	ND	210	105	200	14.4	
DRO >C10-C28*	<10.0	10.0	01/07/2020	ND	226	113	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	01/07/2020	ND					
Surrogate: 1-Chlorooctane	83.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	87.2	% 37.6-14	7						

Analyzed By: ms

Cardinal Laboratories

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Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received:

01/03/2020

Sampling Date:

12/24/2019

Reported:

01/09/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON WTF

Sampling Condition:

Cool & Intact

Project Number:

06-29-19

Sample Received By:

Tamara Oldaker

Project Location:

OXY - EDDY COUNTY, NM

Sample ID: SOUTH @ SURFACE (H000019-04)

BTEX 8260B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	01/06/2020	ND	2.10	105	2.00	1.38	
Toluene*	<0.025	0.025	01/06/2020	ND	2.09	104	2.00	3.19	
Ethylbenzene*	<0.025	0.025	01/06/2020	ND	2.15	107	2.00	2.92	
Total Xylenes*	<0.075	0.075	01/06/2020	ND	6.39	107	6.00	3.64	
Total BTEX	<0.150	0.150	01/06/2020	ND					
Surrogate: Dibromofluoromethane	105	% 90.4-11	1						
Surrogate: Toluene-d8	97.3	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	91.7	% 80.1-12	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/06/2020	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2020	ND	210	105	200	14.4	
DRO >C10-C28*	<10.0	10.0	01/07/2020	ND	226	113	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	01/07/2020	ND					
Surrogate: 1-Chlorooctane	84.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	89.8	% 37.6-14	7						

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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:

BTEX 8260B

01/03/2020

Sampling Date:

12/24/2019

Reported:

01/09/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON WTF

Cool & Intact

Project Number:

06-29-19

Sampling Condition: Sample Received By:

Tamara Oldaker

Project Location:

OXY - EDDY COUNTY, NM

Sample ID: SP 1 @ SURFACE (H000019-05)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	01/06/2020	ND	2.10	105	2.00	1.38	
Toluene*	<0.025	0.025	01/06/2020	ND	2.09	104	2.00	3.19	
Ethylbenzene*	<0.025	0.025	01/06/2020	ND	2.15	107	2.00	2.92	
Total Xylenes*	<0.075	0.075	01/06/2020	ND	6.39	107	6.00	3.64	
Total BTEX	<0.150	0.150	01/06/2020	ND					
Surrogate: Dibromofluoromethane	105 9	% 90.4-11	1						
Surrogate: Toluene-d8	97.3	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	90.9	% 80.1-12	1	1					
Chloride, SM4500CI-B	mg/	'kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	01/06/2020	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2020	ND	210	105	200	14.4	
DRO >C10-C28*	<10.0	10.0	01/07/2020	ND	226	113	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	01/07/2020	ND					
Surrogate: 1-Chlorooctane	79.0	% 41-142	?						
Surrogate: 1-Chlorooctadecane	82.9	% 37.6-14	7						

Analyzed By: ms

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received:

BTEX 8260B

01/03/2020

Sampling Date:

12/24/2019

Reported:

01/09/2020

mg/kg

Sampling Type:

Soil

Project Name:

CEDAR CANYON WTF

Sampling Condition:

Cool & Intact

Project Number:

06-29-19

Analyzed By: ms

Sample Received By:

Tamara Oldaker

S-04

Project Location:

OXY - EDDY COUNTY, NM

Sample ID: SP 1 @ 1' (H000019-06)

DILX 0200D	ilig	r kg	Allalyze	a by. IIIs					3-0-7
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	01/06/2020	ND	2.10	105	2.00	1.38	
Toluene*	<0.025	0.025	01/06/2020	ND	2.09	104	2.00	3.19	
Ethylbenzene*	<0.025	0.025	01/06/2020	ND	2.15	107	2.00	2.92	
Total Xylenes*	<0.075	0.075	01/06/2020	ND	6.39	107	6.00	3.64	
Total BTEX	<0.150	0.150	01/06/2020	ND					
Surrogate: Dibromofluoromethane	105	% 90.4-11	1						
Surrogate: Toluene-d8	119	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	92.8	% 80.1-12	1						
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	01/06/2020	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2020	ND	210	105	200	14.4	
DRO >C10-C28*	<10.0	10.0	01/07/2020	ND	226	113	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	01/07/2020	ND					
Surrogate: 1-Chlorooctane	85.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	90.8	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received:

01/03/2020

Sampling Date:

12/24/2019

Reported:

01/09/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON WTF

Sampling Condition:

Cool & Intact

Project Number:

06-29-19

Sample Received By:

Tamara Oldaker

Project Location:

OXY - EDDY COUNTY, NM

Sample ID: SP 1 @ 2' (H000019-07)

Chioride, 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	01/06/2020	ND	416	104	400	3.77	

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Celeg D. Keine



Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received:

01/03/2020

Sampling Date:

12/24/2019

Reported:

01/09/2020

mg/kg

Sampling Type:

Soil

Project Name:

BTEX 8260B

CEDAR CANYON WTF

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

06-29-19

Project Location: OXY - E

OXY - EDDY COUNTY, NM

Sample ID: SP 2 @ SURFACE (H000019-08)

DILX 0200D	ilig	r kg	Allalyze	a by. IIIs					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	01/06/2020	ND	2.10	105	2.00	1.38	
Toluene*	<0.025	0.025	01/06/2020	ND	2.09	104	2.00	3.19	
Ethylbenzene*	<0.025	0.025	01/06/2020	ND	2.15	107	2.00	2.92	
Total Xylenes*	<0.075	0.075	01/06/2020	ND	6.39	107	6.00	3.64	
Total BTEX	<0.150	0.150	01/06/2020	ND					
Surrogate: Dibromofluoromethane	107	% 90.4-11	1						
Surrogate: Toluene-d8	97.1	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	92.0	% 80.1-12	1						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	01/06/2020	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2020	ND	210	105	200	14.4	
DRO >C10-C28*	<10.0	10.0	01/07/2020	ND	226	113	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	01/07/2020	ND					
Surrogate: 1-Chlorooctane	82.9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	87.4	% 37.6-14	7						

Analyzed By: ms

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received:

BTEX 8260B

01/03/2020

Sampling Date:

12/24/2019

Reported:

01/09/2020

mg/kg

Sampling Type:

Soil

Project Name:

CEDAR CANYON WTF

Sampling Condition:

Cool & Intact

Project Number:

06-29-19

Sample Received By:

Tamara Oldaker

Project Location:

OXY - EDDY COUNTY, NM

Sample ID: SP 2 @ 1' (H000019-09)

D1LX 0200D	ilig	, kg	Allalyze	u by. IIIs					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.035	0.025	01/06/2020	ND	2.10	105	2.00	1.38	
Toluene*	0.078	0.025	01/06/2020	ND	2.09	104	2.00	3.19	
Ethylbenzene*	0.030	0.025	01/06/2020	ND	2.15	107	2.00	2.92	
Total Xylenes*	<0.075	0.075	01/06/2020	ND	6.39	107	6.00	3.64	
Total BTEX	0.202	0.150	01/06/2020	ND					
Surrogate: Dibromofluoromethane	105	% 90.4-11	1						
rrogate: Toluene-d8 96.8 % 85.		% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	90.0	% 80.1-12	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/06/2020	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2020	ND	210	105	200	14.4	
DRO >C10-C28*	<10.0	10.0	01/07/2020	ND	226	113	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	01/07/2020	ND					
Surrogate: 1-Chlorooctane	82.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	89.8	% 37.6-14	7						

Analyzed By: ms

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received:

01/03/2020

Sampling Date:

12/24/2019

Reported:

01/09/2020

06-29-19

Sampling Type:

Soil

Project Name:

CEDAR CANYON WTF

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location:

OXY - EDDY COUNTY, NM

Sample ID: SP 2 @ 2' (H000019-10)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/06/2020	ND	416	104	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:

BTEX 8260B

01/03/2020

Sampling Date:

12/24/2019

Reported:

01/09/2020

mg/kg

Sampling Type:

Soil

Project Name:

CEDAR CANYON WTF

Sampling Condition:

Cool & Intact

Project Number:

06-29-19

Analyzed By: ms

Sample Received By:

Tamara Oldaker

Project Location:

OXY - EDDY COUNTY, NM

Sample ID: SP 3 @ SURFACE (H000019-11)

				,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	01/06/2020	ND	2.10	105	2.00	1.38	
Toluene*	<0.025	0.025	01/06/2020	ND	2.09	104	2.00	3.19	
Ethylbenzene*	<0.025	0.025	01/06/2020	ND	2.15	107	2.00	2.92	
Total Xylenes*	<0.075	0.075	01/06/2020	ND	6.39	107	6.00	3.64	
Total BTEX	<0.150	0.150	01/06/2020	ND					
Surrogate: Dibromofluoromethane	104	% 90.4-11	1						
Surrogate: Toluene-d8			4						
Surrogate: 4-Bromofluorobenzene	90.5	% 80.1-12	1						
Surrogate: 4-Bromoftuorobenzene 90.3 Chloride, SM4500Cl-B mg		/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/06/2020	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2020	ND	210	105	200	14.4	
DRO >C10-C28*	<10.0	10.0	01/07/2020	ND	226	113	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	01/07/2020	ND					
Surrogate: 1-Chlorooctane	81.8	% 41-142	?						
Surrogate: 1-Chlorooctadecane	89.7	% 37.6-14	7						

Cardinal Laboratories

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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:

BTEX 8260B

01/03/2020

Sampling Date:

12/24/2019

Reported:

01/09/2020

mg/kg

Sampling Type:

Soil

Project Name:

CEDAR CANYON WTF

Sampling Condition:

Cool & Intact

Project Number:

06-29-19

Sample Received By:

Tamara Oldaker

Project Location:

OXY - EDDY COUNTY, NM

Sample ID: SP 3 @ 1' (H000019-12)

DILX 0200D	ilig/	r kg	Allalyze	a by. IIIs					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	01/06/2020	ND	2.10	105	2.00	1.38	
Toluene*	<0.025	0.025	01/06/2020	ND	2.09	104	2.00	3.19	
Ethylbenzene*	<0.025	0.025	01/06/2020	ND	2.15	107	2.00	2.92	
Total Xylenes*	<0.075	0.075	01/06/2020	ND	6.39	107	6.00	3.64	
Total BTEX	<0.150	0.150	01/06/2020	ND					
Surrogate: Dibromofluoromethane	108	% 90.4-11	1						
urrogate: Toluene-d8 96.8 %		% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	89.6	% 80.1-12	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	01/06/2020	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/07/2020	ND	210	105	200	14.4	
DRO >C10-C28*	<10.0	10.0	01/07/2020	ND	226	113	200	6.53	
EXT DRO >C28-C36	<10.0	10.0	01/07/2020	ND					
Surrogate: 1-Chlorooctane	83.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	89.1	% 37.6-14	7						

Analyzed By: ms

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received:

01/03/2020

Sampling Date:

12/24/2019

Reported:

01/09/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON WTF

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

06-29-19

Project Location:

Analyte

Analyte

OXY - EDDY COUNTY, NM

Reporting Limit

Reporting Limit

16.0

Sample ID: SP 3 @ 2' (H000019-13)

Chloride, SM4500Cl-B

Analyzed

Analyzed

01/06/2020

Analyzed By: AC

BS

% Recovery True Value QC

RPD

3.77

Chloride

Chloride

Result 656

Result

80.0

01/06/2020 16.0

Method Blank ND

Method Blank

ND

416

104

400

Qualifier

Sample ID: SP 3 @ 3' (H000019-14)

Chloride, SM4500Cl-B

mg/kg

mg/kg

Analyzed By: AC

BS

416

% Recovery

104

True Value QC RPD

Qualifier

Sample ID: SP 3 @ 4' (H000019-15)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte Result Reporting Limit Analyzed Chloride 32.0 01/06/2020 16.0

Method Blank ND

BS 416 % Recovery 104

True Value QC 400

400

RPD 3.77

3.77

Qualifier

Cardinal Laboratories

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Celeg D. Freene

Celey D. Keene, Lab Director/Quality Manager

Page 14 of 24



Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received:

01/03/2020

Sampling Date:

12/27/2019

Reported:

01/09/2020

68.8 %

37.6-147

Sampling Type:

Soil

Project Name:

CEDAR CANYON WTF

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number:

06-29-19

OXY - EDDY COUNTY, NM

Project Location:

Sample ID: SP 4 @ SURFACE (H000019-16)

BTEX 8260B	mg	/kg	Analyze	ed By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	01/06/2020	ND	2.10	105	2.00	1.38	
Toluene*	<0.025	0.025	01/06/2020	ND	2.09	104	2.00	3.19	
Ethylbenzene*	<0.025	0.025	01/06/2020	ND	2.15	107	2.00	2.92	
Total Xylenes*	<0.075	0.075	01/06/2020	ND	6.39	107	6.00	3.64	
Total BTEX	<0.150	0.150	01/06/2020	ND					
Surrogate: Dibromofluoromethane	105	% 90.4-11	1						
Surrogate: Toluene-d8	118	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	90.0	% 80.1-12	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/06/2020	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2020	ND	191	95.4	200	6.89	
DRO >C10-C28*	<10.0	10.0	01/08/2020	ND	220	110	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	01/08/2020	ND					
Surrogate: 1-Chlorooctane	67.6	% 41-142	?						

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received:

BTEX 8260B

01/03/2020

Sampling Date:

12/27/2019

Reported:

01/09/2020

mg/kg

Sampling Type:

Soil

Project Name:

CEDAR CANYON WTF

Sampling Condition:

Cool & Intact

Project Number:

06-29-19

Analyzed By: ms

Sample Received By:

Tamara Oldaker

Project Location:

OXY - EDDY COUNTY, NM

Sample ID: SP 4 @ 1' (H000019-17)

BIEN GEGGE	9/	1.9	Analyzo	a by: iiis					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	01/06/2020	ND	2.10	105	2.00	1.38	
Toluene*	<0.025	0.025	01/06/2020	ND	2.09	104	2.00	3.19	
Ethylbenzene*	<0.025	0.025	01/06/2020	ND	2.15	107	2.00	2.92	
Total Xylenes*	<0.075	0.075	01/06/2020	ND	6.39	107	6.00	3.64	
Total BTEX	<0.150	0.150	01/06/2020	ND					
Surrogate: Dibromofluoromethane	107	% 90.4-11	1						
Surrogate: Toluene-d8			4						
Surrogate: 4-Bromofluorobenzene	89.1	% 80.1-12	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/06/2020	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2020	ND	191	95.4	200	6.89	
DRO >C10-C28*	<10.0	10.0	01/08/2020	ND	220	110	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	01/08/2020	ND					
Surrogate: 1-Chlorooctane	74.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	75.0	% 37.6-14	7						

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Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received:

01/03/2020

Sampling Date:

12/27/2019

Reported:

01/09/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON WTF

OXY - EDDY COUNTY, NM

Sampling Condition:

Cool & Intact

Project Number: Project Location: 06-29-19

Sample Received By:

Tamara Oldaker

Sample ID: SP 4 @ 2' (H000019-18)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte

Result Reporting Limit

Analyzed 01/06/2020 Method Blank

BS 416 % Recovery 104

True Value QC

Qualifier

Chloride

32.0

16.0

ND

400

3.77

RPD

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 17 of 24



Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805

Hobbs NM, 88241

Fax To: (575) 397-0397

Received:

01/03/2020

Sampling Date:

12/27/2019

Reported:

01/09/2020

Sampling Type:

Soil

Project Name:

BTEX 8260B

CEDAR CANYON WTF

Sampling Condition:

Cool & Intact

Project Number: Project Location:

06-29-19

OXY - EDDY COUNTY, NM

mg/kg

Sample Received By:

Tamara Oldaker

Sample ID: SP 5 @ SURFACE (H000019-19)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	01/07/2020	ND	2.10	105	2.00	1.38	
Toluene*	<0.025	0.025	01/07/2020	ND	2.09	104	2.00	3.19	
Ethylbenzene*	<0.025	0.025	01/07/2020	ND	2.15	107	2.00	2.92	
Total Xylenes*	<0.075	0.075	01/07/2020	ND	6.39	107	6.00	3.64	
Total BTEX	<0.150	0.150	01/07/2020	ND					
Surrogate: Dibromofluoromethane	109	% 90.4-11	1						
Surrogate: Toluene-d8			4						
urrogate: 4-Bromofluorobenzene 90.7 % 80.		% 80.1-12	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/06/2020	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2020	ND	191	95.4	200	6.89	
DRO >C10-C28*	<10.0	10.0	01/08/2020	ND	220	110	200	2.66	
EXT DRO >C28-C36	<10.0	10.0	01/08/2020	ND					
Surrogate: 1-Chlorooctane	64.3	% 41-142	?						
Surrogate: 1-Chlorooctadecane	64.9	% 37.6-14	7						

Analyzed By: ms

Cardinal Laboratories

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received:

01/03/2020

Sampling Date:

12/27/2019

Reported:

01/09/2020

Sampling Type:

Soil

Project Name:

CEDAR CANYON WTF

Sampling Condition:

Cool & Intact

Project Number:

06-29-19

Sample Received By:

Tamara Oldaker

Project Location:

OXY - EDDY COUNTY, NM

Sample ID: SP 5 @ 1' (H000019-20)

BTEX 8260B	mg,	/kg	Analyze	d By: ms					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.025	0.025	01/07/2020	ND	2.10	105	2.00	1.38	
Toluene*	<0.025	0.025	01/07/2020	ND	2.09	104	2.00	3.19	
Ethylbenzene*	<0.025	0.025	01/07/2020	ND	2.15	107	2.00	2.92	
Total Xylenes*	<0.075	0.075	01/07/2020	ND	6.39	107	6.00	3.64	
Total BTEX	<0.150	0.150	01/07/2020	ND					
Surrogate: Dibromofluoromethane	106	106 % 90.4-111 98.9 % 85.3-114							
Surrogate: Toluene-d8	98.9	% 85.3-11	4						
Surrogate: 4-Bromofluorobenzene	73.8	73.8 % 80.1-121							
Chloride, SM4500Cl-B	mg,	73.8 % 80.1-121 mg/kg		d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	01/06/2020	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/08/2020	ND	212	106	200	0.228	
DRO >C10-C28*	<10.0	10.0	01/08/2020	ND	236	118	200	0.0984	
EXT DRO >C28-C36	<10.0	10.0	01/08/2020	ND					
Surrogate: 1-Chlorooctane	68.4	% 41-142	•						
Surrogate: 1-Chlorooctadecane	70.2	% 37.6-14	7						

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Analytical Results For:

BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received:

01/03/2020

06-29-19

Sampling Date:

12/27/2019

Reported:

01/09/2020

mg/kg

Sampling Type:

Soil

Project Name:

CEDAR CANYON WTF

Sampling Condition: Sample Received By: Cool & Intact Tamara Oldaker

Project Number: Project Location:

Analyte

OXY - EDDY COUNTY, NM

Sample ID: SP 5 @ 2' (H000019-21)

Chloride, SM4500Cl-B

Analyzed By: AC

Reporting Limit

Reporting Limit

16.0

Analyzed M

Method Blank

BS % Recovery

True Value QC

Qualifier

Chloride

Chloride

Result 80.0

Result

48.0

16.0 01/06/2020

ND

Method Blank

ND

416

104

400

- -

RPD

0.00

0.00

Sample ID: SP 5 @ 3' (H000019-22)

Chloride, SM4500Cl-B

Analyte

mg/kg

Analyzed By: AC

Analyzed

01/06/2020

lalyzeu by: AC

BS 416 % Recovery 104

True Value QC 400

RPD Qualifier

Cardinal Laboratories

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Celeg D. Freene



Notes and Definitions

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

Cardinal Laboratories *=Accredited Analyte

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Received by OCD: 2/11/2020 5:45:35 PM

1043

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

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

Company Name: BBC International, Inc.

Project Manage	Project Ware: 575-397-0397 Project Ware: S75-397-0397 Project Name: Cedar Canyon WTF 6-29-19 Project Location: Eddy County, NM Project Name: Jeff Ornelas Por Lab Use Only Project Owner: Oxy Project Owner:). #:											1			
Address: P.O	. Box 805							Cor	mpa	ıny:	(XUX											
city: Hobbs	State: NM	Zip	o: (882	41			Attı	n:	Ne	20	le 0											
Phone #: 575-	397-6388 Fax #: 575	-39	7-0	397	7			Add	dres	ss:		,				1							
Project #:	Project Owne	r: 0	ху					City	/ :														
Project Name:	Cedar Canyon WTF 6-29-19							Sta	te:		2	Zip:											
Project Locatio	n: Eddy County, NM							Pho	one	#:													
Sampler Name:	Jeff Ornelas							Fax	(#:														
FOR LAB USE ONLY			Г	L	M	ATRIX	X	\Box	PRE	SER	V.	SAMPLI	NG			T.							
Tap I'D' # CONTAINERS # CONTAINERS WASTEWATER WASTEWATER WASTEWATER WASTEWATER WASTEWATER WASTEWATER WASTEWATER						SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	U	BTEX	TOH FYT	20						
1	North @ Surface									1	_	12-24-19	9: 10 AM	1	/	V				Î	Î		
	North @ Surface									1		12-24-19	9:18 AM	V	1	V							
												12-24-19	9:27AM	1	1	1	1						
4			П									12-24-19	9:40 ALL	1	V	/							
5	SP1 @ Surface											12-24-19	9:55 AM	/	V	/	<i>e</i> :						
6			Ш									12-24-19		/	/	1							
			Ш									1224-19	10:20 AM	/									
8												12-24-19	10:4ZAM	/	V	V							
9			П									12-24-19	10:55 AM	/	. V	V							
10		V	V		1	1				V		12-24-19	11:12 AM	/									
analyses All claims includ	ing those for negligence and any other cause whatsoever shall be	deeme	ed war	ved un	less mad	e in writi	ing and	receiv	, shall ved by	be limit Cardin	ted to	o the amount pa thin 30 days afte	id by the client fo er completion of t	r the he applicat	ble								
Relinquished B	y: Date:	R	ecei	ived	Ву:								Phone Re Fax Resu		☐ Ye		No No		Phone Fax #:				
													REMARK		_ ,.	3 .	110	Auu	T UX TT.				
5	y: Date: 3 - 20 Time: 73 : 50 Time: 73 : 50)	ecei	H	1	la	-	6	Le		de	ely o	2										
	120 1201 0			D	Cool	Inta	ect			(li	niti	als)											
Sampler - UPS	- Bus - Other: #113	2	2		EY	es 🛅	Yes		1	Te	9												

BILL TO

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

Received by OCD: 2/11/2020 5:45:35 PM

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name	Sample I.D. Sample I.D. Sample I.D. Sample I.D. Sp3 @ Surface 17 Sp4 @ 1' Sp4 @ 2' Sp5 @ Surface 17 Sp4 @ 1' Sp4 @ 2' Sp5 @ Surface 17 Sp4 @ 1' Sp4 @ 2' Sp5 @ Surface 17 Sp4 @ 1' Sp4 @ 2' Sp5 @ Surface 17 Sp4 @ 1' Sp4 @ 2' Sp5 @ Surface 17 Sp4 @ 1' Sp5 @ Surface 17 Sp4 @ 2' Sp5 @ Surface 17 Sp6 @ Surface 17 Sp5 @ Surface										BII	LL TO						ANA	LYS	IS F	₹EC	QUES	ST			
Project Manage	### Page Page																				\top			T		
Address: P.O.	mpany Name: BBC International, Inc. Diject Manager: Cliff Brunson dress: P.O. Box 805 by: Hobbs State: NM Zip: 88241 Drone #: 575-397-6388 Fax #: 575-397-0397 Diject Name: Cedar Canyon WTF 6-29-19 Diject Location: Eddy County, NM Impler Name: Jeff Ornelas RLABUSE ONLY ABOUND NAME SP3 @ Surface 12 SP3 @ 1' 13 SP3 @ 2' 14 SP3 @ 3' 15 SP3 @ 4' 16 SP4 @ Surface										: (DXY					1									
city: Hobbs	Iress: P.O. Box 805 : Hobbs State: NM Zip: 88241 : ne #: 575-397-6388 Fax #: 575-397-0397 : ject #: Project Owner: Oxy : ject Name: Cedar Canyon WTF 6-29-19 : ject Location: Eddy County, NM inpler Name: Jeff Ornelas										Va	de														
Phone #: 575-3	397-6388 Fax #: 575	-39	7-0	397	7			Α	ddre	ess:																
Project #:		: 0	ху					С	ity:				*													
								s	tate	:		Zip:												1		
Project Location	mpler Name: Jeff Ornelas									e #:													l			
Sampler Name:	mpler Name: Jeff Ornelas									•																
FOR LAB USE ONLY	OR LAB USE ONLY										RV.	SAMPLI	NG				+									
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	Dompany Name: BBC International, Inc. roject Manager: Cliff Brunson ddress: P.O. Box 805 ity: Hobbs State: NM zip: 88241 roject #: Project Owner: Oxy roject Name: Cedar Canyon WTF 6-29-19 roject Location: Eddy County, NM ampler Name: Jeff Ornelas FOR LAB USE ONLY Lab I.D. Sample I.D. Sample I.D. Sp3 @ Surface 12 SP3 @ 1' 13 SP3 @ 2' 14 SP3 @ 3' 15 SP3 @ 4' 16 SP4 @ Surface 17 SP4 @ 1'									1		12-27-19	10:22 AM	~	~	8	V						<u> </u>			
	### BBC International, Inc. ### Diject Manager: Cliff Brunson ### Arabuse only ### Diject Name: Cedar Canyon WTF 6-29-19 ### Diject Location: Eddy County, NM ### Impler Name: Jeff Ornelas ### DR LAB USE ONLY ### Diject Name: Cedar Canyon WTF 6-29-19 ### Diject Location: Eddy County, NM ### Impler Name: Jeff Ornelas ### DR LAB USE ONLY ### Diject Name: Deff Ornelas ### Dr Lab I.D. ### SP3 @ Surface ### Dr SP3 @ 2' ### SP3 @ 3' ### SP3 @ 3' ### SP3 @ 3' ### SP3 @ 3' ### SP4 @ Surface ### SP4 @ Surface ### SP4 @ Surface ### SP4 @ 1' ### SP4 @ 2' ### SP4 @ 2'										×		10:35 AM	/												
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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim ansing 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 applicat service. In no event shall Cardinal be liable for incidental or consequental 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:	Received By:		Phone Result:	☐ Yes	□ No	Add'l Phone #:
	12-17-19			Fax Result:	☐ Yes	□ No	Add'l Fax #:
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2 July	Time: 3:50	Jamara C	Eldakige				
Delivered By: (Circle One)		Sample Condition	CHECKED BY:				
Sampler - UPS - Bus - Other:	#113	Cool Intact Ves Ves No No	(Initials)				

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Nam	e: BBC International, Inc.									II I	BI	LL TO						ANA	AL YS	IS R	FOLI	FST		
	er: Cliff Brunson							P.	.O. i	#:								7.1.0	T			-0.	Т	
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city: Hobbs	State: NM	Zi	p:	882	41				ttn:	-	1)/	ide.												
Phone #: 575	-397-6388 Fax #: 57	5-39	97-0	39	7			A	ddre	ess:	:			1								1		
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service. In no event shall C affiliates or successors aris	nd Damages. Cardinal's liability and client's exclusive remedy for ng those for negligence and any other cause whatsoever shall be rardinal be liable for incidental or consequental damages, includin ng out of or related to the performance of services hereunder by	quetho	a waiv	ea unie	ss mad	e in writ	ing an	d rece	ived b	y Caro	dinal wi	ithin 30 days after	r completion of the	e applicat	ble									
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CHECKED BY: (Initials)

Sample Condition

Received by OCD: 2/11/2020 5:45:35 PM

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Cool Intact
Yes Yes
No No † Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476