

Closure Report

2RP-5211

Site Description

Site Name:	Cedar Canyon 28 CTB	Incident ID: NAB1903138297
Company:	Oxy, Permian	
Legal Description:	U/L K, Section 28, T24S, R29E	
County:	Eddy County, NM	
GPS Coordinates:	N 32.18626 W -103.99154	

Release Data

Date of Release:	10/17/2018
Type of Release:	Oil
Source of Release:	Equipment fatigue
Volume of Release:	60 bbls
Volume Recovered:	50 bbls

Remediation Specifications

Remediation Parameters:	SP1 through SP7 and SP11 were excavated to a depth of 1.5 feet, SP9 and SP13 to a depth of 3 feet, and SP10 to a depth of 2 feet. Leak area SP8 was excavated to a 4 foot depth. Bottom confirmation samples were collected every 75 feet. Entire site was backfilled with clean soil.
Remediation Activities:	9/21/20 to 11/2/20

Plan Sent to OCD:	6/26/2019	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	7/3/2019	Email from Robert Hamlet to Cliff Brunson
Plan Sent to BLM:	6/26/2019	Email from Cliff Brunson to Jim Amos
BLM Approval of Plan:	11/21/2019	Email from Jim Amos to Cliff Brunson

Supporting Documentation

Initial C-141	signed and included	
C-141, page 6	signed and included	
Site Diagram	Google Earth map with excavation depths & confirmation sample points	
Pictures	Remediation photos	
Lab Summary/Analysis	Confirmation lab summary/analysis report for 10/21/20 to 10/22/20	
Depth to Groundwater	USGS Info	

Request for Closure

Based on the completion of the remediation plan as agreed upon, BBC International requests closure approval from NMOCD.

Cliff Brunson, President of BBC International Inc.

2/3/2021

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

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAB1903138297
District RP	2RP-5211
Facility ID	fAB1903137542
Application ID	pAB1903137648

Release Notification

Responsible Party

Responsible Party	OXY USA INC.	OGRID	16696
Contact Name	WADE DITTRICH	Contact Telephone	(575) 390-2828
Contact email	WADE_DITTRICH@OXY.COM	Incident # (assigned by OCD)	NAB1903138297
Contact mailing address	PO BOX 4294; HOUSTON, TX 77210		

Location of Release Source

Latitude N 32.18626 Longitude W-103.99154
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	CEDAR CANYON 28 CTB	Site Type	BATTERY
Date Release Discovered	10/17/18	API# (if applicable)	N/A

**required

Unit Letter	Section	Township	Range	County
**K AB	28	24S	29E	EDDY COUNTY, NM

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 60 bbls	Volume Recovered (bbls) 50 bbls
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

EQUIPMENT FATIGUE DURING NORMAL OPERATIONS

Form C-141

State of New Mexico
Oil Conservation Division

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Incident ID	NAB1903138297
District RP	2RP-5211
Facility ID	fAB1903137542
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****This section is marked "Yes", please fill in the next box below your answer.** *AB*

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? The leak volume was greater than 25 bbls.
**If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? YES, BY WADE DITTRICH, TO MIKE BRATCHER, MARIA PRUETT & JIM GRISWOLD 10-17-18 VIA E-MAIL.	


Initial Response*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Wade Dittrich Title: Environmental Coordinator
 Signature:  Date: 1-16-19
 email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by:  Date: 1/31/2019

Form C-141

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State of New Mexico
Oil Conservation Division

Incident ID	NAB1903138297
District RP	2RP-5211
Facility ID	
Application ID	

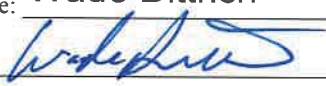
Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Wade Dittrich Title: Environmental Coordinator
Signature:  Date: 11-16-2020
email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Oxy Cedar Canyon 28 CTB

Leak Date: 10-17-2018
Eddy County, NM
Incident ID: NAB1903138297

Legend

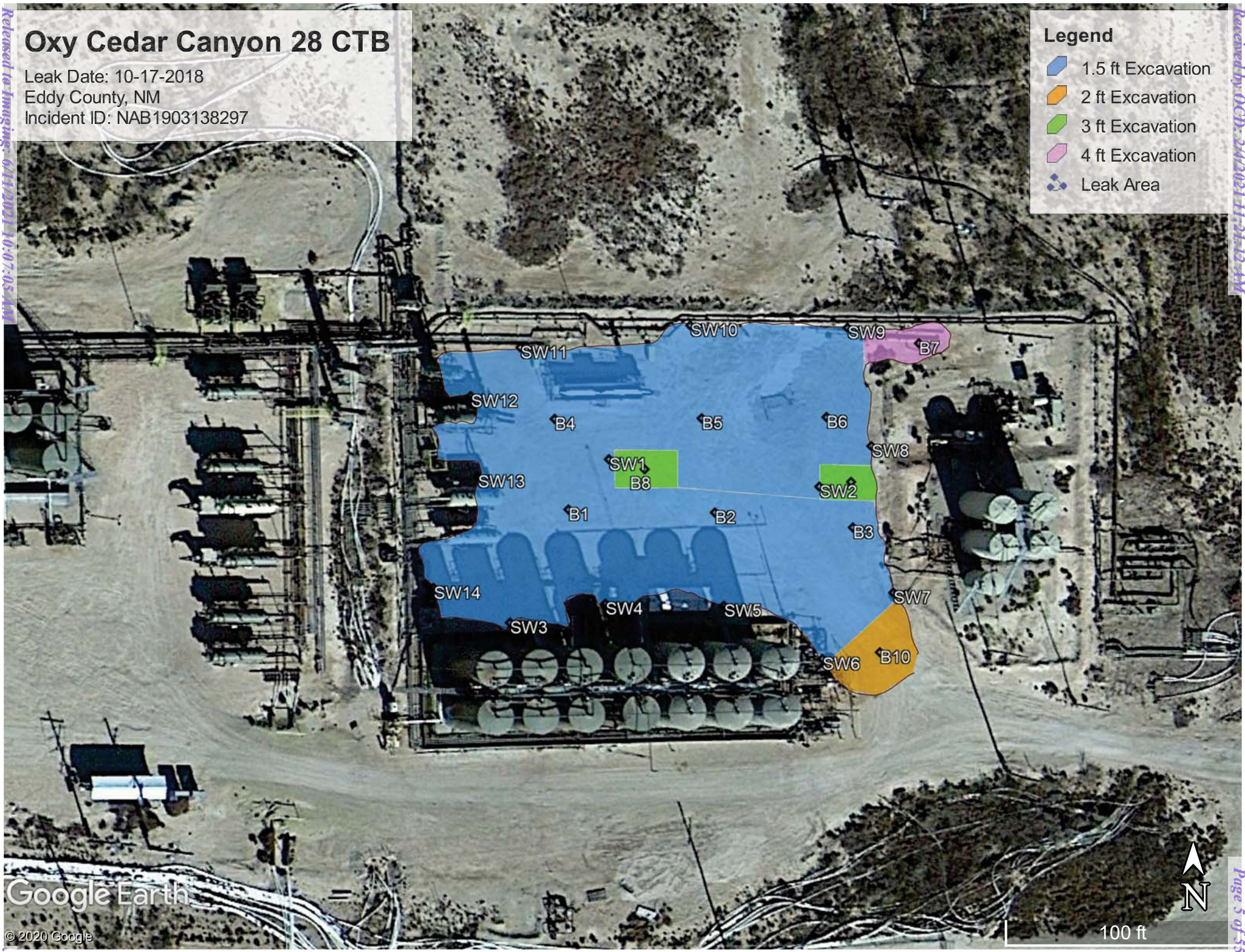
1.5 ft Excavation

2 ft Excavation

3 ft Excavation

4 ft Excavation

Leak Area



Oxy, Cedar Canyon 28 CTB

Confirmation Sample points

B1, N 32.18641 W-103.99196

B2, N 32.18641 W-103.99176

B3, N 32.18639 W-103.99157

B4, N 32.18652 W-103.99198

B5, N 32.18652 W-103.99178

B6, N 32.18652 W-103.99161

B7, N 32.18660 W-103.99148

B8, N 32.18646 W-103.99186

B9, N 32.18644 W-103.99157

B10, N 32.18624 W-103.99153

SW1, N 32.18647 W-103.99191

SW2, N 32.18644 W-103.99162

SW3, N 32.18628 W-103.99204

SW4, N 32.18630 W-103.99191

SW5, N 32.18630 W-103.99175

SW6, N 32.18624 W-103.99161

SW7, N 32.18631 W-103.99152

SW8, N 32.18648 W-103.99155

SW9, N 32.18662 W-103.99158

SW10, N 32.18663 W-103.99180

SW11, N 32.18660 W-103.99203

SW12, N 32.18654 W-103.99210

SW13, N 32.18645 W-103.99209

SW14, N 32.18632 W-103.99215











Laboratory Analytical Results Summary
Cedar Canyon 28 CTB (10/17/18)

		Sample ID	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10
Analyte	Method	Date	10/21/20	10/21/20	10/21/20	10/21/20	10/21/20	10/21/20	10/21/20	10/21/20	10/21/20	10/21/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		336	144	320	144	144	144	256	240	64.0	256
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

		Sample ID	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8	SW9	SW10	SW11	SW11A	SW12	SW12A	SW13
Analyte	Method	Date	10/21/20	10/21/20	10/21/20	10/21/20	10/21/20	10/22/20	10/22/20	10/22/20	10/22/20	10/22/20	10/22/20	11/10/20	10/22/20	11/10/20	10/22/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		240	368	176	160	272	96.0	112	160	272	240	208	128	128	208	160
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	n/a	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	11.3	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	3230	<10.0	3390	n/a	48.7
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	747	<10.0	730	n/a	12.4



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

October 23, 2020

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CEDAR CANYON 28 CTB

Enclosed are the results of analyses for samples received by the laboratory on 10/22/20 16:55.

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.

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

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

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

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

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

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CEDAR CANYON 28 CTB
Project Number: (10/17/18)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
23-Oct-20 15:20

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BS 1	H002825-01	Soil	21-Oct-20 09:35	22-Oct-20 16:55
BS 2	H002825-02	Soil	21-Oct-20 09:53	22-Oct-20 16:55
BS 3	H002825-03	Soil	21-Oct-20 10:14	22-Oct-20 16:55
BS 4	H002825-04	Soil	21-Oct-20 10:31	22-Oct-20 16:55
BS 5	H002825-05	Soil	21-Oct-20 10:47	22-Oct-20 16:55
BS 6	H002825-06	Soil	21-Oct-20 11:14	22-Oct-20 16:55
BS 7	H002825-07	Soil	21-Oct-20 11:38	22-Oct-20 16:55
BS 8	H002825-08	Soil	21-Oct-20 11:58	22-Oct-20 16:55
BS 9	H002825-09	Soil	21-Oct-20 12:40	22-Oct-20 16:55
BS 10	H002825-10	Soil	21-Oct-20 13:07	22-Oct-20 16:55
SW 1	H002825-11	Soil	21-Oct-20 13:25	22-Oct-20 16:55
SW 2	H002825-12	Soil	21-Oct-20 13:47	22-Oct-20 16:55
SW 3	H002825-13	Soil	21-Oct-20 14:16	22-Oct-20 16:55
SW 4	H002825-14	Soil	21-Oct-20 14:37	22-Oct-20 16:55
SW 5	H002825-15	Soil	21-Oct-20 14:52	22-Oct-20 16:55
SW 6	H002825-16	Soil	22-Oct-20 09:25	22-Oct-20 16:55
SW 7	H002825-17	Soil	22-Oct-20 09:42	22-Oct-20 16:55
SW 8	H002825-18	Soil	22-Oct-20 09:57	22-Oct-20 16:55
SW 9	H002825-19	Soil	22-Oct-20 10:24	22-Oct-20 16:55
SW 10	H002825-20	Soil	22-Oct-20 10:47	22-Oct-20 16:55
SW 11	H002825-21	Soil	22-Oct-20 11:12	22-Oct-20 16:55
SW 12	H002825-22	Soil	22-Oct-20 11:28	22-Oct-20 16:55
SW 13	H002825-23	Soil	22-Oct-20 11:46	22-Oct-20 16:55

10/23/20 - Client revised the project name. This is the revised report and will replace the one sent earlier 10/23/20.

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CEDAR CANYON 28 CTB
Project Number: (10/17/18)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
23-Oct-20 15:20

BS 1**H002825-01 (Soil)**

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

Chloride	336		16.0	mg/kg	4	0102305	GM	23-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0102221	MS	23-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			97.0 %		73.3-129	0102221	MS	23-Oct-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0102222	MS	22-Oct-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0102222	MS	22-Oct-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0102222	MS	22-Oct-20	8015B	

Surrogate: 1-Chlorooctane			79.5 %		44.3-144	0102222	MS	22-Oct-20	8015B	
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Surrogate: 1-Chlorooctadecane			87.7 %		42.2-156	0102222	MS	22-Oct-20	8015B	
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Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CEDAR CANYON 28 CTB
Project Number: (10/17/18)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
23-Oct-20 15:20

BS 2**H002825-02 (Soil)**

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

Chloride	144		16.0	mg/kg	4	0102305	GM	23-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0102221	MS	23-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			97.5 %		73.3-129	0102221	MS	23-Oct-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0102222	MS	22-Oct-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0102222	MS	22-Oct-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0102222	MS	22-Oct-20	8015B	

Surrogate: 1-Chlorooctane			90.9 %		44.3-144	0102222	MS	22-Oct-20	8015B	
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Surrogate: 1-Chlorooctadecane			97.4 %		42.2-156	0102222	MS	22-Oct-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CEDAR CANYON 28 CTB
Project Number: (10/17/18)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
23-Oct-20 15:20

BS 3**H002825-03 (Soil)**

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

Chloride	320		16.0	mg/kg	4	0102305	GM	23-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0102221	MS	23-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 73.3-129 0102221 MS 23-Oct-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0102222	MS	22-Oct-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0102222	MS	22-Oct-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0102222	MS	22-Oct-20	8015B	

Surrogate: 1-Chlorooctane 86.6 % 44.3-144 0102222 MS 22-Oct-20 8015B

Surrogate: 1-Chlorooctadecane 95.0 % 42.2-156 0102222 MS 22-Oct-20 8015B

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Analytical Results For:

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

Project: CEDAR CANYON 28 CTB
Project Number: (10/17/18)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
23-Oct-20 15:20

BS 4**H002825-04 (Soil)**

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

Chloride	144		16.0	mg/kg	4	0102305	GM	23-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0102221	MS	23-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			97.8 %		73.3-129	0102221	MS	23-Oct-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0102222	MS	22-Oct-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0102222	MS	22-Oct-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0102222	MS	22-Oct-20	8015B	

Surrogate: 1-Chlorooctane			85.3 %		44.3-144	0102222	MS	22-Oct-20	8015B	
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Surrogate: 1-Chlorooctadecane			93.6 %		42.2-156	0102222	MS	22-Oct-20	8015B	
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Analytical Results For:

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

Project: CEDAR CANYON 28 CTB
Project Number: (10/17/18)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
23-Oct-20 15:20

BS 5**H002825-05 (Soil)**

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

Chloride	144		16.0	mg/kg	4	0102305	GM	23-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0102221	MS	23-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			97.0 %		73.3-129	0102221	MS	23-Oct-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0102222	MS	22-Oct-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0102222	MS	22-Oct-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0102222	MS	22-Oct-20	8015B	

Surrogate: 1-Chlorooctane			79.7 %		44.3-144	0102222	MS	22-Oct-20	8015B	
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Surrogate: 1-Chlorooctadecane			86.8 %		42.2-156	0102222	MS	22-Oct-20	8015B	
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Analytical Results For:

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

Project: CEDAR CANYON 28 CTB
Project Number: (10/17/18)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
23-Oct-20 15:20

BS 6**H002825-06 (Soil)**

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

Chloride	144		16.0	mg/kg	4	0102305	GM	23-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0102221	MS	23-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			97.0 %		73.3-129	0102221	MS	23-Oct-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0102222	MS	22-Oct-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0102222	MS	22-Oct-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0102222	MS	22-Oct-20	8015B	

Surrogate: 1-Chlorooctane			77.8 %		44.3-144	0102222	MS	22-Oct-20	8015B	
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Surrogate: 1-Chlorooctadecane			83.3 %		42.2-156	0102222	MS	22-Oct-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: CEDAR CANYON 28 CTB
Project Number: (10/17/18)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
23-Oct-20 15:20

BS 7**H002825-07 (Soil)**

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

Chloride	256		16.0	mg/kg	4	0102305	GM	23-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0102221	MS	23-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			97.3 %		73.3-129	0102221	MS	23-Oct-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0102222	MS	22-Oct-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0102222	MS	22-Oct-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0102222	MS	22-Oct-20	8015B	

Surrogate: 1-Chlorooctane			80.1 %		44.3-144	0102222	MS	22-Oct-20	8015B	
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Surrogate: 1-Chlorooctadecane			87.4 %		42.2-156	0102222	MS	22-Oct-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: CEDAR CANYON 28 CTB
Project Number: (10/17/18)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
23-Oct-20 15:20

BS 8**H002825-08 (Soil)**

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

Chloride	240		16.0	mg/kg	4	0102305	GM	23-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0102221	MS	23-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 73.3-129 0102221 MS 23-Oct-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0102222	MS	22-Oct-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0102222	MS	22-Oct-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0102222	MS	22-Oct-20	8015B	

Surrogate: 1-Chlorooctane 87.2 % 44.3-144 0102222 MS 22-Oct-20 8015B

Surrogate: 1-Chlorooctadecane 96.3 % 42.2-156 0102222 MS 22-Oct-20 8015B

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Analytical Results For:

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

Project: CEDAR CANYON 28 CTB
Project Number: (10/17/18)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
23-Oct-20 15:20

BS 9**H002825-09 (Soil)**

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

Chloride	64.0		16.0	mg/kg	4	0102305	GM	23-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0102221	MS	23-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 73.3-129 0102221 MS 23-Oct-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0102222	MS	22-Oct-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0102222	MS	22-Oct-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0102222	MS	22-Oct-20	8015B	

Surrogate: 1-Chlorooctane 83.9 % 44.3-144 0102222 MS 22-Oct-20 8015B

Surrogate: 1-Chlorooctadecane 93.2 % 42.2-156 0102222 MS 22-Oct-20 8015B

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Analytical Results For:

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

Project: CEDAR CANYON 28 CTB
Project Number: (10/17/18)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
23-Oct-20 15:20

BS 10**H002825-10 (Soil)**

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

Chloride	256		16.0	mg/kg	4	0102305	GM	23-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0102221	MS	23-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			98.4 %		73.3-129	0102221	MS	23-Oct-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0102222	MS	22-Oct-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0102222	MS	22-Oct-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0102222	MS	22-Oct-20	8015B	

Surrogate: 1-Chlorooctane			82.6 %		44.3-144	0102222	MS	22-Oct-20	8015B	
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Surrogate: 1-Chlorooctadecane			92.7 %		42.2-156	0102222	MS	22-Oct-20	8015B	
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Analytical Results For:

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

Project: CEDAR CANYON 28 CTB
Project Number: (10/17/18)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
23-Oct-20 15:20

SW 1
H002825-11 (Soil)

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

Chloride	240		16.0	mg/kg	4	0102306	GM	23-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0102221	MS	23-Oct-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			96.2 %		73.3-129	0102221	MS	23-Oct-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0102222	MS	23-Oct-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0102222	MS	23-Oct-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0102222	MS	23-Oct-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			83.3 %		44.3-144	0102222	MS	23-Oct-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			91.6 %		42.2-156	0102222	MS	23-Oct-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CEDAR CANYON 28 CTB
Project Number: (10/17/18)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
23-Oct-20 15:20

SW 2
H002825-12 (Soil)

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

Chloride	368		16.0	mg/kg	4	0102306	GM	23-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Toluene*	<0.050	0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	0102221	MS	23-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	97.2 %	73.3-129	0102221	MS	23-Oct-20	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	0102222	MS	23-Oct-20	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	0102222	MS	23-Oct-20	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	0102222	MS	23-Oct-20	8015B

Surrogate: 1-Chlorooctane	78.8 %	44.3-144	0102222	MS	23-Oct-20	8015B
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Surrogate: 1-Chlorooctadecane	86.8 %	42.2-156	0102222	MS	23-Oct-20	8015B
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: CEDAR CANYON 28 CTB
Project Number: (10/17/18)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
23-Oct-20 15:20

SW 3
H002825-13 (Soil)

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

Chloride	176		16.0	mg/kg	4	0102306	GM	23-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0102221	MS	23-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.3-129 0102221 MS 23-Oct-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0102222	MS	23-Oct-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0102222	MS	23-Oct-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0102222	MS	23-Oct-20	8015B	

Surrogate: 1-Chlorooctane 82.5 % 44.3-144 0102222 MS 23-Oct-20 8015B

Surrogate: 1-Chlorooctadecane 92.8 % 42.2-156 0102222 MS 23-Oct-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: CEDAR CANYON 28 CTB
Project Number: (10/17/18)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
23-Oct-20 15:20

SW 4
H002825-14 (Soil)

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

Chloride	160		16.0	mg/kg	4	0102306	GM	23-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0102221	MS	23-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 73.3-129 0102221 MS 23-Oct-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0102222	MS	23-Oct-20	8015B	
DRO >C10-C28*	11.3		10.0	mg/kg	1	0102222	MS	23-Oct-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0102222	MS	23-Oct-20	8015B	

Surrogate: 1-Chlorooctane 85.1 % 44.3-144 0102222 MS 23-Oct-20 8015B

Surrogate: 1-Chlorooctadecane 96.5 % 42.2-156 0102222 MS 23-Oct-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: CEDAR CANYON 28 CTB
Project Number: (10/17/18)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
23-Oct-20 15:20

SW 5
H002825-15 (Soil)

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

Chloride	272		16.0	mg/kg	4	0102306	GM	23-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0102221	MS	23-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 73.3-129 0102221 MS 23-Oct-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0102222	MS	23-Oct-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0102222	MS	23-Oct-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0102222	MS	23-Oct-20	8015B	

Surrogate: 1-Chlorooctane 84.4 % 44.3-144 0102222 MS 23-Oct-20 8015B

Surrogate: 1-Chlorooctadecane 93.2 % 42.2-156 0102222 MS 23-Oct-20 8015B

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Analytical Results For:

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

Project: CEDAR CANYON 28 CTB
Project Number: (10/17/18)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
23-Oct-20 15:20

SW 6
H002825-16 (Soil)

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

Chloride	96.0		16.0	mg/kg	4	0102306	GM	23-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0102221	MS	23-Oct-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.2 %		73.3-129	0102221	MS	23-Oct-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0102222	MS	23-Oct-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0102222	MS	23-Oct-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0102222	MS	23-Oct-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			84.0 %		44.3-144	0102222	MS	23-Oct-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			94.0 %		42.2-156	0102222	MS	23-Oct-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: CEDAR CANYON 28 CTB
Project Number: (10/17/18)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
23-Oct-20 15:20

SW 7
H002825-17 (Soil)

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

Chloride	112		16.0	mg/kg	4	0102306	GM	23-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0102221	MS	23-Oct-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			96.5 %		73.3-129	0102221	MS	23-Oct-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0102222	MS	23-Oct-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0102222	MS	23-Oct-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0102222	MS	23-Oct-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			81.2 %		44.3-144	0102222	MS	23-Oct-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			90.2 %		42.2-156	0102222	MS	23-Oct-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: CEDAR CANYON 28 CTB
Project Number: (10/17/18)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
23-Oct-20 15:20

SW 8
H002825-18 (Soil)

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

Chloride	160		16.0	mg/kg	4	0102306	GM	23-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0102221	MS	23-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0102221	MS	23-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 73.3-129 0102221 MS 23-Oct-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0102222	MS	23-Oct-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0102222	MS	23-Oct-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0102222	MS	23-Oct-20	8015B	

Surrogate: 1-Chlorooctane 78.4 % 44.3-144 0102222 MS 23-Oct-20 8015B

Surrogate: 1-Chlorooctadecane 88.5 % 42.2-156 0102222 MS 23-Oct-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: CEDAR CANYON 28 CTB
Project Number: (10/17/18)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
23-Oct-20 15:20

SW 9
H002825-19 (Soil)

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

Chloride	272		16.0	mg/kg	4	0102306	GM	23-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0102301	ms	23-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0102301	ms	23-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0102301	ms	23-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0102301	ms	23-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0102301	ms	23-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 73.3-129 0102301 ms 23-Oct-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0102223	MS	23-Oct-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0102223	MS	23-Oct-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0102223	MS	23-Oct-20	8015B	

Surrogate: 1-Chlorooctane 80.5 % 44.3-144 0102223 MS 23-Oct-20 8015B

Surrogate: 1-Chlorooctadecane 78.7 % 42.2-156 0102223 MS 23-Oct-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CEDAR CANYON 28 CTB
Project Number: (10/17/18)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
23-Oct-20 15:20

SW 10**H002825-20 (Soil)**

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

Chloride	240		16.0	mg/kg	4	0102306	GM	23-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0102301	ms	23-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0102301	ms	23-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0102301	ms	23-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0102301	ms	23-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0102301	ms	23-Oct-20	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			97.5 %		73.3-129	0102301	ms	23-Oct-20	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0102223	MS	23-Oct-20	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	0102223	MS	23-Oct-20	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	0102223	MS	23-Oct-20	8015B	

<i>Surrogate: 1-Chlorooctane</i>			83.9 %		44.3-144	0102223	MS	23-Oct-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			81.0 %		42.2-156	0102223	MS	23-Oct-20	8015B	
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Analytical Results For:

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

Project: CEDAR CANYON 28 CTB
Project Number: (10/17/18)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
23-Oct-20 15:20

SW 11**H002825-21 (Soil)**

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

Chloride	208		16.0	mg/kg	4	0102306	GM	23-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0102301	ms	23-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0102301	ms	23-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0102301	ms	23-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0102301	ms	23-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0102301	ms	23-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 73.3-129 0102301 ms 23-Oct-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0102223	MS	23-Oct-20	8015B	
DRO >C10-C28*	3230		10.0	mg/kg	1	0102223	MS	23-Oct-20	8015B	
EXT DRO >C28-C36	747		10.0	mg/kg	1	0102223	MS	23-Oct-20	8015B	

Surrogate: 1-Chlorooctane 77.1 % 44.3-144 0102223 MS 23-Oct-20 8015B

Surrogate: 1-Chlorooctadecane 119 % 42.2-156 0102223 MS 23-Oct-20 8015B

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Analytical Results For:

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

Project: CEDAR CANYON 28 CTB
Project Number: (10/17/18)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
23-Oct-20 15:20

SW 12**H002825-22 (Soil)**

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

Chloride	128		16.0	mg/kg	4	0102306	GM	23-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0102301	ms	23-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0102301	ms	23-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0102301	ms	23-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0102301	ms	23-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0102301	ms	23-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 73.3-129 0102301 ms 23-Oct-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0102223	MS	23-Oct-20	8015B	
DRO >C10-C28*	3390		10.0	mg/kg	1	0102223	MS	23-Oct-20	8015B	
EXT DRO >C28-C36	730		10.0	mg/kg	1	0102223	MS	23-Oct-20	8015B	

Surrogate: 1-Chlorooctane 69.7 % 44.3-144 0102223 MS 23-Oct-20 8015B

Surrogate: 1-Chlorooctadecane 114 % 42.2-156 0102223 MS 23-Oct-20 8015B

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Analytical Results For:

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

Project: CEDAR CANYON 28 CTB
Project Number: (10/17/18)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
23-Oct-20 15:20

SW 13
H002825-23 (Soil)

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

Chloride	160		16.0	mg/kg	4	0102306	GM	23-Oct-20	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	0102301	ms	23-Oct-20	8021B	
Toluene*	<0.050		0.050	mg/kg	50	0102301	ms	23-Oct-20	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	0102301	ms	23-Oct-20	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	0102301	ms	23-Oct-20	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	0102301	ms	23-Oct-20	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 73.3-129 0102301 ms 23-Oct-20 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	0102223	MS	23-Oct-20	8015B	
DRO >C10-C28*	48.7		10.0	mg/kg	1	0102223	MS	23-Oct-20	8015B	
EXT DRO >C28-C36	12.4		10.0	mg/kg	1	0102223	MS	23-Oct-20	8015B	

Surrogate: 1-Chlorooctane 83.2 % 44.3-144 0102223 MS 23-Oct-20 8015B

Surrogate: 1-Chlorooctadecane 81.4 % 42.2-156 0102223 MS 23-Oct-20 8015B

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Analytical Results For:

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

Project: CEDAR CANYON 28 CTB
Project Number: (10/17/18)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
23-Oct-20 15:20

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0102305 - 1:4 DI Water**Blank (0102305-BLK1)**

Prepared & Analyzed: 23-Oct-20

Chloride	ND	16.0	mg/kg						
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LCS (0102305-BS1)

Prepared & Analyzed: 23-Oct-20

Chloride	416	16.0	mg/kg	400	104	80-120			
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LCS Dup (0102305-BSD1)

Prepared & Analyzed: 23-Oct-20

Chloride	416	16.0	mg/kg	400	104	80-120	0.00	20	
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Batch 0102306 - 1:4 DI Water**Blank (0102306-BLK1)**

Prepared & Analyzed: 23-Oct-20

Chloride	ND	16.0	mg/kg						
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LCS (0102306-BS1)

Prepared & Analyzed: 23-Oct-20

Chloride	432	16.0	mg/kg	400	108	80-120			
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LCS Dup (0102306-BSD1)

Prepared & Analyzed: 23-Oct-20

Chloride	416	16.0	mg/kg	400	104	80-120	3.77	20	
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Analytical Results For:

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

Project: CEDAR CANYON 28 CTB
Project Number: (10/17/18)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
23-Oct-20 15:20

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0102221 - Volatiles**Blank (0102221-BLK1)**

Prepared: 22-Oct-20 Analyzed: 23-Oct-20

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		93.6	73.3-129			

LCS (0102221-BS1)

Prepared: 22-Oct-20 Analyzed: 23-Oct-20

Benzene	2.06	0.050	mg/kg	2.00		103	72.2-131			
Toluene	1.99	0.050	mg/kg	2.00		99.4	71.7-126			
Ethylbenzene	1.96	0.050	mg/kg	2.00		98.1	68.9-126			
Total Xylenes	5.68	0.150	mg/kg	6.00		94.7	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0482		mg/kg	0.0500		96.3	73.3-129			

LCS Dup (0102221-BSD1)

Prepared: 22-Oct-20 Analyzed: 23-Oct-20

Benzene	1.88	0.050	mg/kg	2.00		94.0	72.2-131	8.93	14.6	
Toluene	1.83	0.050	mg/kg	2.00		91.6	71.7-126	8.10	17.4	
Ethylbenzene	1.80	0.050	mg/kg	2.00		90.1	68.9-126	8.52	18.9	
Total Xylenes	5.21	0.150	mg/kg	6.00		86.8	71.4-125	8.66	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0431		mg/kg	0.0500		86.2	73.3-129			

Batch 0102301 - Volatiles**Blank (0102301-BLK1)**

Prepared & Analyzed: 23-Oct-20

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		95.3	73.3-129			

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Analytical Results For:

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

Project: CEDAR CANYON 28 CTB
Project Number: (10/17/18)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
23-Oct-20 15:20

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0102301 - Volatiles**LCS (0102301-BS1)**

Prepared & Analyzed: 23-Oct-20

Benzene	1.83	0.050	mg/kg	2.00		91.6	72.2-131			
Toluene	1.86	0.050	mg/kg	2.00		93.0	71.7-126			
Ethylbenzene	1.81	0.050	mg/kg	2.00		90.3	68.9-126			
Total Xylenes	5.29	0.150	mg/kg	6.00		88.2	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0462		mg/kg	0.0500		92.4	73.3-129			

LCS Dup (0102301-BS1)

Prepared & Analyzed: 23-Oct-20

Benzene	1.99	0.050	mg/kg	2.00		99.7	72.2-131	8.46	14.6	
Toluene	1.99	0.050	mg/kg	2.00		99.6	71.7-126	6.89	17.4	
Ethylbenzene	1.93	0.050	mg/kg	2.00		96.7	68.9-126	6.80	18.9	
Total Xylenes	5.72	0.150	mg/kg	6.00		95.4	71.4-125	7.84	18.5	
Surrogate: 4-Bromofluorobenzene (PID)	0.0458		mg/kg	0.0500		91.6	73.3-129			

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Analytical Results For:

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

Project: CEDAR CANYON 28 CTB
Project Number: (10/17/18)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
23-Oct-20 15:20

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0102222 - General Prep - Organics**Blank (0102222-BLK1)**

Prepared: 22-Oct-20 Analyzed: 23-Oct-20

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	55.7		mg/kg	50.0		111	44.3-144			
Surrogate: 1-Chlorooctadecane	59.6		mg/kg	50.0		119	42.2-156			

LCS (0102222-BS1)

Prepared: 22-Oct-20 Analyzed: 23-Oct-20

GRO C6-C10	193	10.0	mg/kg	200		96.3	78.8-127			
DRO >C10-C28	193	10.0	mg/kg	200		96.6	80-132			
Total TPH C6-C28	386	10.0	mg/kg	400		96.4	81.3-128			
Surrogate: 1-Chlorooctane	58.8		mg/kg	50.0		118	44.3-144			
Surrogate: 1-Chlorooctadecane	63.7		mg/kg	50.0		127	42.2-156			

LCS Dup (0102222-BS1)

Prepared: 22-Oct-20 Analyzed: 23-Oct-20

GRO C6-C10	188	10.0	mg/kg	200		94.1	78.8-127	2.25	15.1	
DRO >C10-C28	191	10.0	mg/kg	200		95.4	80-132	1.32	17.1	
Total TPH C6-C28	379	10.0	mg/kg	400		94.7	81.3-128	1.79	15	
Surrogate: 1-Chlorooctane	57.5		mg/kg	50.0		115	44.3-144			
Surrogate: 1-Chlorooctadecane	62.7		mg/kg	50.0		125	42.2-156			

Batch 0102223 - General Prep - Organics**Blank (0102223-BLK1)**

Prepared: 22-Oct-20 Analyzed: 23-Oct-20

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	86.2		mg/kg	100		86.2	44.3-144			
Surrogate: 1-Chlorooctadecane	84.6		mg/kg	100		84.6	42.2-156			

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: CEDAR CANYON 28 CTB
Project Number: (10/17/18)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397

Reported:
23-Oct-20 15:20

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

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

Batch 0102223 - General Prep - Organics**LCS (0102223-BS1)**

Prepared: 22-Oct-20 Analyzed: 23-Oct-20

GRO C6-C10	217	10.0	mg/kg	200		108	78.8-127			
DRO >C10-C28	210	10.0	mg/kg	200		105	80-132			
Total TPH C6-C28	427	10.0	mg/kg	400		107	81.3-128			
Surrogate: 1-Chlorooctane	85.4		mg/kg	100		85.4	44.3-144			
Surrogate: 1-Chlorooctadecane	84.2		mg/kg	100		84.2	42.2-156			

LCS Dup (0102223-BS1)

Prepared: 22-Oct-20 Analyzed: 23-Oct-20

GRO C6-C10	219	10.0	mg/kg	200		110	78.8-127	1.10	15.1	
DRO >C10-C28	210	10.0	mg/kg	200		105	80-132	0.261	17.1	
Total TPH C6-C28	429	10.0	mg/kg	400		107	81.3-128	0.431	15	
Surrogate: 1-Chlorooctane	87.6		mg/kg	100		87.6	44.3-144			
Surrogate: 1-Chlorooctadecane	86.1		mg/kg	100		86.1	42.2-156			

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager


CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<103>

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																		
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: Gila Fed 12-211 (8-13-20) Cedar Canyon 28 CTB (10-17-18)				State: Zip:																						
Project Location: EDDY COUNTY, NM				Phone #:																						
Sampler Name: Simon Rendon				Fax #:																						
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	CL	BTEX	TPH	EXT								
H002825																										
1	BS1	G	1										10/21/20	9:35 AM	✓	✓	✓									
2	BS2												10/21/20	9:53 AM	✓	✓	✓									
3	BS3												10/21/20	10:14 AM	✓	✓	✓									
4	BS4												10/21/20	10:31 AM	✓	✓	✓									
5	BS5												10/21/20	10:47 AM	✓	✓	✓									
6	BS6												10/21/20	11:14 AM	✓	✓	✓									
7	BS7												10/21/20	11:38 AM	✓	✓	✓									
8	BS8												10/21/20	11:58 AM	✓	✓	✓									
9	BS9												10/21/20	12:40 PM	✓	✓	✓									
10	BS10												10/21/20	1:07 PM	✓	✓	✓									

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Relinquished By:	Date: 10-22-20	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 1655		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		RUS11 !!	
Delivered By: (Circle One)				
Sampler - UPS - Bus - Other: 2.1c #113	Sample Condition	CHECKED BY: (Initials)		
	Cool Intact			
	<input type="checkbox"/> Yes <input type="checkbox"/> No			

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

* Project name changed as per Renee. 10/23/20 Cle



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<203>

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																	
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: Gila Fed 12-211 (8-13-20) Cedar Canyon 28				State: Zip:																					
Project Location: EDDY COUNTY, NM CTBB (10-17-18)				Phone #:																					
Sampler Name: Simon Rendon				Fax #:																					
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	CL	BTEX	TPH	EXT							
H002825																									
11	SW1	G	I										10/21/20	1:25 PM	✓	✓	✓								
12	SW2												10/21/20	1:47 PM	✓	✓	✓								
13	SW3												10/21/20	2:16 PM	✓	✓	✓								
14	SW4												10/21/20	2:37 PM	✓	✓	✓								
15	SW5												10/21/20	2:52 PM	✓	✓	✓								
16	SW6												10/22/20	9:25 AM	✓	✓	✓								
17	SW7												10/22/20	9:42 AM	✓	✓	✓								
18	SW8												10/22/20	9:57 AM	✓	✓	✓								
19	SW9												10/22/20	10:24 AM	✓	✓	✓								
20	SW10												10/22/20	10:47 AM	✓	✓	✓								

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Relinquished By:	Date: 10-22-20 Time: 10:55	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)	REMARKS: 	
Sampler - UPS - Bus - Other: 2.1c #113	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No			

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<303>

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																		
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: Gila Fed 12-211 (8-13-20) Cedar Canyon 28				State: Zip:																						
Project Location: EDDY COUNTY, NM CTB (10-17-18)				Phone #:																						
Sampler Name: Simon Rendon				Fax #:																						
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING																
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	CL	BTEX	TPH	EXT								
H002825																										
21	SW11	G	1										10/22/20	11:12 AM	✓	✓	✓									
22	SW12	↓	↓			↓							10/22/20	11:28 AM	✓	✓	✓									
23	SW13	↓	↓			↓							10/22/20	11:46 AM	✓	✓	✓									

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Relinquished By:	Date: 10-22-20	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 1655		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		Rush !!	
Delivered By: (Circle One)				
Sampler - UPS - Bus - Other:	2.1c #113	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) T.O.	

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

November 13, 2020

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CEDAR CANYON 28 CTB

Enclosed are the results of analyses for samples received by the laboratory on 11/12/20 17:00.

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.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/12/2020	Sampling Date:	11/10/2020
Reported:	11/13/2020	Sampling Type:	Soil
Project Name:	CEDAR CANYON 28 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/17/18)	Sample Received By:	Celey D. Keene
Project Location:	OXY - EDDY CO NM		

Sample ID: SW 11A (H003018-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2020	ND	2.03	101	2.00	3.04	
Toluene*	<0.050	0.050	11/13/2020	ND	1.95	97.7	2.00	2.63	
Ethylbenzene*	<0.050	0.050	11/13/2020	ND	2.05	103	2.00	2.75	
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.86	97.6	6.00	2.61	
Total BTEX	<0.300	0.300	11/13/2020	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	128	16.0	11/13/2020	ND	400	100	400	3.92	

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	11/13/2020	ND	241	120	200	10.2	
DRO >C10-C28*	<10.0	10.0	11/13/2020	ND	240	120	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	11/13/2020	ND					

Surrogate: 1-Chlorooctane 73.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 69.0 % 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:	11/12/2020	Sampling Date:	11/10/2020
Reported:	11/13/2020	Sampling Type:	Soil
Project Name:	CEDAR CANYON 28 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/17/18)	Sample Received By:	Celey D. Keene
Project Location:	OXY - EDDY CO NM		

Sample ID: SW 12A (H003018-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/13/2020	ND	2.03	101	2.00	3.04		
Toluene*	<0.050	0.050	11/13/2020	ND	1.95	97.7	2.00	2.63		
Ethylbenzene*	<0.050	0.050	11/13/2020	ND	2.05	103	2.00	2.75		
Total Xylenes*	<0.150	0.150	11/13/2020	ND	5.86	97.6	6.00	2.61		
Total BTEx	<0.300	0.300	11/13/2020	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	208	16.0	11/13/2020	ND	400	100	400	3.92		

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	11/13/2020	ND	241	120	200	10.2	
DRO >C10-C28*	<10.0	10.0	11/13/2020	ND	240	120	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	11/13/2020	ND					

Surrogate: 1-Chlorooctane 76.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 71.4 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

Cardinal Laboratories

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

Celey D. Keene, Lab Director/Quality Manager



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101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

GO

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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 measurem
1983-02-01		D	47.14				2		U	
1987-10-16		D	51.84				2		U	
1988-02-11		D	52.19				2		U	
1992-10-20		D	51.78				2		S	

Explanation

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

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[Data Tips](#)
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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)



Title: Groundwater for New Mexico: Water Levels

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

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

Page Last Modified: 2018-12-11 14:13:12 EST

0.55 0.43 nadww01

Form C-141

Page 6

State of New Mexico
Oil Conservation Division

Incident ID	NAB1903138297
District RP	2RP-5211
Facility ID	
Application ID	

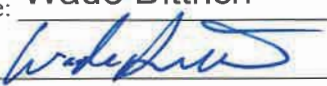
Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate OCD District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Wade Dittrich Title: Environmental Coordinator
Signature:  Date: 11-16-2020
email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: Robert Hamlet Date: 6/11/2021

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Robert Hamlet Date: 6/11/2021
Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

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

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

CONDITIONS

Action 16960

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 16960
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAB1903138297 CEDAR CANYON 28 CTB, thank you. This closure is approved.	6/11/2021