

Closure Report

NRM2008455073

Site Description

Site Name:	STATE 2 3 CTB
Company:	OXY
Legal Description:	U/L: I, SECTION 2, T22S, R31E
County:	EDDY COUNTY, NM
GPS Coordinates:	N32.41965 W -103.74111

Release Data

Date of Release:	2/12/2020
Type of Release:	CRUDE OIL /PRODUCED WATER
Source of Release:	WATER TRANSFER PUMP LOST POWER
Volume of Release:	0.5 BBLS CRUDE OIL/ 0 BBLS PRODUCED WATER
Volume Recovered:	7 BBLS CRUDE OIL/ 0 BBLS PRODUCED WATER

Remediation Specifications

Remediation Parameters	Oxy excavated the spill area as depicted on the following site diagram. The leak area in RED was excavated to a depth of 3 feet. The leak are in BLUE was excavated to a depth of 2 feet. The leak area near SP3 and SP4 (WHITE) required zero remediation. Sidewall and bottom confirmation samples were collected every 200 square feet.
Remediation Activities:	2/13/20, 12/15/21, 12/20/21, 1/4/22 and 5/9/22

Plan Sent to OCD:	3/19/2020	FROM CLIFF TO BLM NM AND WADE
OCD Approval of Plan:	11/6/2020	FROM @STATE.NM.US TO WADE AND CLIFF
Plan Sent to BLM:	7/29/2020	FROM CLIFF TO SPILL@BLM AND WADE
BLM Approval of Plan:	11/6/2020	FROM JAMOS@BLM.GOV TO WADE AND CLIFF

Supporting Documentation

C 141 PAGE 6	SIGNED	
SITE DIAGRAM	GOOGLE EARTH MAP WITH CONFIRMATION SAMPLES	
PICTURES	CLOSURE PICTURES	
LAB SUMMARY	CLOSURE SAMPLES	
LAB ANALYSIS	CLOSURE SAMPLES	
SAMPLING NOTIFICATION	12/20/2021 and 5/4/22	

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.

5/16/2022

Form C-141

Page 6

State of New Mexico
Oil Conservation Division

Incident ID	NRM2008455073
District RP	1RP-5284
Facility ID	
Application ID	

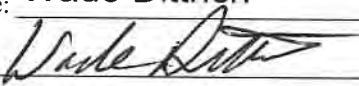
Closure

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: 3-23-22
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: 05/31/2022
Printed Name: Jennifer Nobui Title: Environmental Specialist A

From: [Cliff Brunson](#)
To: ["Enviro. OCD, EMNRD"](#)
Cc: ["Wade Dittrich"](#); ["Ken Swinney"](#); ["Jennifer Gilkey"](#); ["Julia French"](#)
Subject: OXY - State 2 3 CTB - Sampling Notification
Date: Monday, December 20, 2021 6:14:47 PM

This is a notification that BBC will conduct confirmation sampling on behalf of OXY at the State 2 3 CTB (Incident ID # nRM2008455073) on Wednesday, December 22 at 9:00 a.m.

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland St.
Hobbs, NM 88240 USA
Phone: (575) 397-6388
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E-Mail: cbrunson@bbcinternational.com



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From: [Dittrich, John W](#)
To: "Cliff Brunson"; kswinney@bbcinternational.com
Cc: jgilkey@bbcinternational.com; [Julia French](#)
Subject: FW: The Oil Conservation Division (OCD) has rejected the application, Application ID: 92732
Date: Wednesday, April 20, 2022 2:08:04 PM

State 2 3 CTB—2/12/2020

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Wednesday, April 20, 2022 2:02 PM
To: Dittrich, John W <Wade_Dittrich@oxy.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 92732

WARNING - This message is from an EXTERNAL SENDER - be CAUTIOUS, particularly with links and attachments.

To whom it may concern (c/o Wade Dittrich for OXY USA INC),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nRM2008455073, for the following reasons:

- **Closure Report Denied. Site has not been sufficiently delineated. Please resubmit revised Closure Report by May 20, 2022.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 92732.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Jennifer Nobui
Environmental Specialist-Advanced
505-476-3441
Jennifer.Nobui@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

From: [Cliff Brunson](#)
To: ["Enviro. OCD, EMNRD"](#)
Cc: ["Wade Dittrich"](#); ["Ken Swinney"](#); ["Jennifer Gilkey"](#); ["Julia French"](#)
Subject: OXY - State 2 3 CTB - Sampling Notification
Date: Wednesday, May 4, 2022 4:24:00 PM

This is a notification that BBC will conduct confirmation sampling on behalf of OXY at the State 2 3 CTB (Incident ID # nRM2008455073) on Monday, May 9, 2022 at 3:00 p.m.

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
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

Oxy, State 2 3 CTB

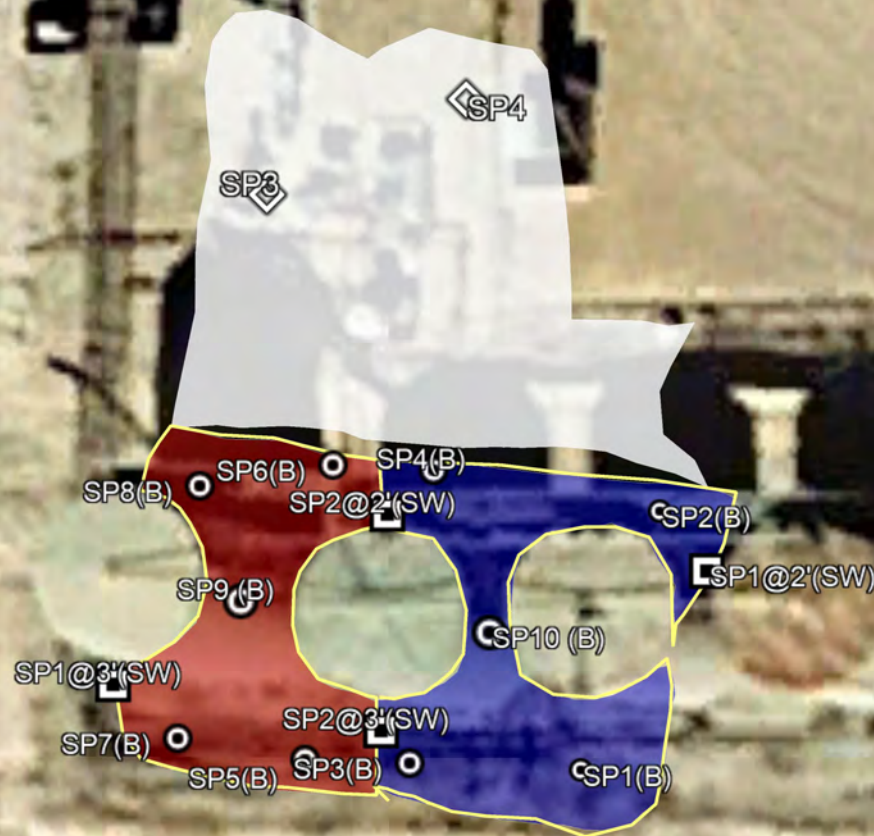
Leak Date: 2/12/20

Incident ID#: nRM2008455073

Eddy Co., NM

Legend

-  2 ft Excavation
-  3 ft Excavation
-  Bottom Confirmation Sample
-  Leak Area
-  Sidewall Confirmation Sample
-  Zero Remediation
-  Zero Remediation Sample



STATE 2 3 CTB

LEAK DATE 2/12/20

SAMPLE DATE 12/21/21 & 5/9/21

SP 1 @ 2' (SW)	32.419329	-103.741399
SP 2 @ 2' (SW)	32.419343	-103.741493
SP 1 @ 3' (SW)	32.419300	-103.741575
SP 2 @ 3' (SW)	32.419288	-103.741495
SP 1 @ 2' (B)	32.419278	-103.741436
SP 2 @ 2' (B)	32.419343	-103.741413
SP 3 @ 2' (B)	32.419280	-103.741487
SP 4 @ 2' (B)	32.419354	-103.741479
SP 5 @ 3' (B)	32.419281	-103.741518
SP 6 @ 3' (B)	32.419355	-103.741509
SP 7 @ 3' (B)	32.419286	-103.741556
SP 8 @ 3' (B)	32.419350	-103.741549
SP 9 @ 4' & 5'	32.419321	-103.741537
SP 10 @ 3' & 5'	32.419313	-103.741463

		Sample ID	BOTTOM 1 @ 2'	BOTTOM 2 @ 2'	BOTTOM 3 @ 2'	BOTTOM 4 @ 2'
Analyte	Method	Date	12/21/21	12/21/21	12/21/21	12/21/21
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		32.0	48.0	48.0	32.0
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	BOTTOM 5 @ 3'	BOTTOM 6 @ 3'	BOTTOM 7 @ 3'	BOTTOM 8 @ 3'
Analyte	Method	Date	12/21/21	12/21/21	12/21/21	12/21/21
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		64.0	64.0	128	64.0
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	SIDEWALL 1 @ 2'	SIDEWALL 2 @ 2'
Analyte	Method	Date	12/21/21	12/21/21
			mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500Cl-B		32.0	16.0
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0

		Sample ID	SIDEWALL 1 @ 3'	SIDEWALL 2 @ 3'
Analyte	Method	Date	12/21/21	12/21/21
			mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500Cl-B		16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0

		Sample ID	North @ Surface	East @ Surface	West @ Surface	South @ Surface
Analyte	Method	Date	3/19/20	3/19/20	3/19/20	3/19/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		16.0	16.0	16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

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

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

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

		Sample ID	SP4 @ Surface	SP4 @ 1'	SP4 @ 2'
Analyte	Method	Date	3/19/20	3/19/20	3/19/20
			mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a
Chloride	SM4500Cl-B		64.0	16.0	<16.0
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	BS 9@4'	BS 9@ 5'	BS 10@ 3'	BS 10@ 5'
Analyte	Date	5/9/22	5/9/22	5/9/22	5/9/22
		mg/kg	mg/kg	mg/kg	mg/kg
Benzene		<0.050	<0.050	<0.050	<0.050
Toluene		<0.050	<0.050	<0.050	<0.050
Ethylbenzene		<0.050	<0.050	<0.050	<0.050
Total Xylenes		<0.150	<0.150	<0.150	<0.150
Total BTEX		<0.300	<0.300	<0.300	<0.300
Chloride		32.0	48.0	48.0	48.0
GRO		<10.0	<10.0	<10.0	<10.0
DRO		<10.0	<10.0	<10.0	<10.0
EXT DRO		<10.0	<10.0	<10.0	<10.0



STATE 2-3 CTB
2-12-20

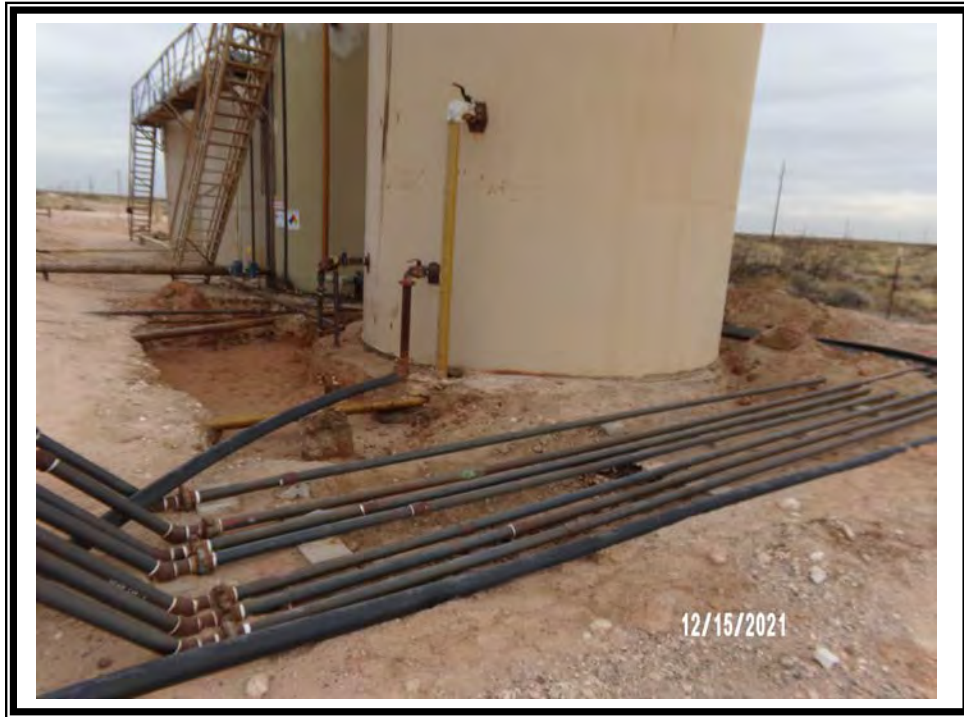




STATE 2-3 CTB
2-12-20



STATE 2-3 CTB
2-12-20



STATE 2-3 CTB
2-12-20



STATE 2-3 CTB
2-12-20





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

December 23, 2021

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: STATE 2 3 CTB

Enclosed are the results of analyses for samples received by the laboratory on 12/21/21 16:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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, 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.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 12/21/2021
 Reported: 12/23/2021
 Project Name: STATE 2 3 CTB
 Project Number: (2-12-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 12/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 1 @ 2' (H213690-01)

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	12/22/2021	ND	2.12	106	2.00	1.70		
Toluene*	<0.050	0.050	12/22/2021	ND	2.04	102	2.00	1.68		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.98	99.1	2.00	0.799		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.02	100	6.00	0.127		
Total BTEX	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/23/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/23/2021	ND	198	99.2	200	15.2	
DRO >C10-C28*	<10.0	10.0	12/23/2021	ND	209	105	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	12/23/2021	ND					

Surrogate: 1-Chlorooctane 94.7 % 62-130

Surrogate: 1-Chlorooctadecane 85.4 % 54.5-135

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.

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: 12/21/2021
 Reported: 12/23/2021
 Project Name: STATE 2 3 CTB
 Project Number: (2-12-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 12/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 2 @ 2' (H213690-02)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/22/2021	ND	2.12	106	2.00	1.70	
Toluene*	<0.050	0.050	12/22/2021	ND	2.04	102	2.00	1.68	
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.98	99.1	2.00	0.799	
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.02	100	6.00	0.127	
Total BTX	<0.300	0.300	12/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	12/23/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/23/2021	ND	198	99.2	200	15.2	
DRO >C10-C28*	<10.0	10.0	12/23/2021	ND	209	105	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	12/23/2021	ND					

Surrogate: 1-Chlorooctane 99.4 % 62-130

Surrogate: 1-Chlorooctadecane 92.8 % 54.5-135

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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: 12/21/2021
 Reported: 12/23/2021
 Project Name: STATE 2 3 CTB
 Project Number: (2-12-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 12/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 3 @ 2' (H213690-03)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/22/2021	ND	2.12	106	2.00	1.70		
Toluene*	<0.050	0.050	12/22/2021	ND	2.04	102	2.00	1.68		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.98	99.1	2.00	0.799		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.02	100	6.00	0.127		
Total BTEx	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	12/23/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/23/2021	ND	198	99.2	200	15.2	
DRO >C10-C28*	<10.0	10.0	12/23/2021	ND	209	105	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	12/23/2021	ND					

Surrogate: 1-Chlorooctane 98.5 % 62-130

Surrogate: 1-Chlorooctadecane 92.1 % 54.5-135

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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: 12/21/2021
 Reported: 12/23/2021
 Project Name: STATE 2 3 CTB
 Project Number: (2-12-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 12/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 4 @ 2' (H213690-04)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/22/2021	ND	2.12	106	2.00	1.70	
Toluene*	<0.050	0.050	12/22/2021	ND	2.04	102	2.00	1.68	
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.98	99.1	2.00	0.799	
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.02	100	6.00	0.127	
Total BTX	<0.300	0.300	12/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/23/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/23/2021	ND	198	99.2	200	15.2	
DRO >C10-C28*	<10.0	10.0	12/23/2021	ND	209	105	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	12/23/2021	ND					

Surrogate: 1-Chlorooctane 104 % 62-130

Surrogate: 1-Chlorooctadecane 97.0 % 54.5-135

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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: 12/21/2021
 Reported: 12/23/2021
 Project Name: STATE 2 3 CTB
 Project Number: (2-12-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 12/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 5 @ 3' (H213690-05)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/22/2021	ND	2.12	106	2.00	1.70	
Toluene*	<0.050	0.050	12/22/2021	ND	2.04	102	2.00	1.68	
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.98	99.1	2.00	0.799	
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.02	100	6.00	0.127	
Total BTX	<0.300	0.300	12/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	12/23/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2021	ND	221	111	200	0.170	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	226	113	200	0.454	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 106 % 62-130

Surrogate: 1-Chlorooctadecane 105 % 54.5-135

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Analytical Results For:

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

Received: 12/21/2021
 Reported: 12/23/2021
 Project Name: STATE 2 3 CTB
 Project Number: (2-12-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 12/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 6 @ 3' (H213690-06)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/22/2021	ND	2.12	106	2.00	1.70	
Toluene*	<0.050	0.050	12/22/2021	ND	2.04	102	2.00	1.68	
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.98	99.1	2.00	0.799	
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.02	100	6.00	0.127	
Total BTX	<0.300	0.300	12/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	12/23/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2021	ND	221	111	200	0.170	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	226	113	200	0.454	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 108 % 62-130

Surrogate: 1-Chlorooctadecane 104 % 54.5-135

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Analytical Results For:

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

Received: 12/21/2021
 Reported: 12/23/2021
 Project Name: STATE 2 3 CTB
 Project Number: (2-12-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 12/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 7 @ 3' (H213690-07)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/22/2021	ND	2.12	106	2.00	1.70	
Toluene*	<0.050	0.050	12/22/2021	ND	2.04	102	2.00	1.68	
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.98	99.1	2.00	0.799	
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.02	100	6.00	0.127	
Total BTX	<0.300	0.300	12/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/23/2021	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2021	ND	221	111	200	0.170	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	226	113	200	0.454	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 107 % 62-130

Surrogate: 1-Chlorooctadecane 106 % 54.5-135

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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: 12/21/2021
 Reported: 12/23/2021
 Project Name: STATE 2 3 CTB
 Project Number: (2-12-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 12/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 8 @ 3' (H213690-08)

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	12/22/2021	ND	2.12	106	2.00	1.70	
Toluene*	<0.050	0.050	12/22/2021	ND	2.04	102	2.00	1.68	
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.98	99.1	2.00	0.799	
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.02	100	6.00	0.127	
Total BTEx	<0.300	0.300	12/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	12/23/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2021	ND	221	111	200	0.170	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	226	113	200	0.454	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 109 % 62-130

Surrogate: 1-Chlorooctadecane 107 % 54.5-135

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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: 12/21/2021
 Reported: 12/23/2021
 Project Name: STATE 2 3 CTB
 Project Number: (2-12-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 12/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SIDEWALL 1 @ 2' (H213690-09)

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	12/22/2021	ND	2.12	106	2.00	1.70		
Toluene*	<0.050	0.050	12/22/2021	ND	2.04	102	2.00	1.68		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.98	99.1	2.00	0.799		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.02	100	6.00	0.127		
Total BTEx	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/23/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2021	ND	221	111	200	0.170	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	226	113	200	0.454	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 105 % 62-130

Surrogate: 1-Chlorooctadecane 106 % 54.5-135

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Analytical Results For:

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

Received: 12/21/2021
 Reported: 12/23/2021
 Project Name: STATE 2 3 CTB
 Project Number: (2-12-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 12/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SIDEWALL 2 @ 2' (H213690-10)

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	12/22/2021	ND	2.12	106	2.00	1.70		
Toluene*	<0.050	0.050	12/22/2021	ND	2.04	102	2.00	1.68		
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.98	99.1	2.00	0.799		
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.02	100	6.00	0.127		
Total BTEx	<0.300	0.300	12/22/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/23/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2021	ND	221	111	200	0.170	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	226	113	200	0.454	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 99.7 % 62-130

Surrogate: 1-Chlorooctadecane 101 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 12/21/2021
 Reported: 12/23/2021
 Project Name: STATE 2 3 CTB
 Project Number: (2-12-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 12/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SIDEWALL 1 @ 3' (H213690-11)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/22/2021	ND	2.12	106	2.00	1.70	
Toluene*	<0.050	0.050	12/22/2021	ND	2.04	102	2.00	1.68	
Ethylbenzene*	<0.050	0.050	12/22/2021	ND	1.98	99.1	2.00	0.799	
Total Xylenes*	<0.150	0.150	12/22/2021	ND	6.02	100	6.00	0.127	
Total BTX	<0.300	0.300	12/22/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/23/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2021	ND	221	111	200	0.170	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	226	113	200	0.454	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 96.4 % 62-130

Surrogate: 1-Chlorooctadecane 97.1 % 54.5-135

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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: 12/21/2021
 Reported: 12/23/2021
 Project Name: STATE 2 3 CTB
 Project Number: (2-12-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 12/21/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SIDEWALL 2 @ 3' (H213690-12)

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	12/23/2021	ND	2.10	105	2.00	3.56		
Toluene*	<0.050	0.050	12/23/2021	ND	2.05	102	2.00	3.58		
Ethylbenzene*	<0.050	0.050	12/23/2021	ND	1.96	97.9	2.00	3.63		
Total Xylenes*	<0.150	0.150	12/23/2021	ND	5.95	99.2	6.00	3.81		
Total BTEx	<0.300	0.300	12/23/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/23/2021	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/22/2021	ND	221	111	200	0.170	
DRO >C10-C28*	<10.0	10.0	12/22/2021	ND	226	113	200	0.454	
EXT DRO >C28-C36	<10.0	10.0	12/22/2021	ND					

Surrogate: 1-Chlorooctane 98.0 % 62-130

Surrogate: 1-Chlorooctadecane 98.8 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

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

Page 15 of 16

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST												
Project Manager: Cliff Brunson				P.O. #:				<div style="text-align: center; font-size: 2em;">Oxy</div>												
Address: P.O. Box 805				Company:																
City: Hobbs State: NM Zip: 88241				Attn:																
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																
Project #: Project Owner: Oxy				City:																
Project Name: STATE 2 3 CTB (2/12/20)				State: Zip:																
Project Location: NEW MEXICO				Phone #:				<div style="text-align: center; font-size: 2em;">Oxy</div>												
Sampler Name: SIMON				Fax #:																
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(GRAB OR C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING													
					GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER	ACID/BASE: ICE / COOL OTHER	DATE	TIME												
	H213690						12/21/21	9:00AM	✓	✓	✓									
	1	BOTTOM 1 @ 2'					12/21/21	9:10AM	✓	✓	✓									
	2	BOTTOM 2 @ 2'					12/21/21	9:18AM	✓	✓	✓									
	3	BOTTOM 3 @ 2'					12/21/21	9:30AM	✓	✓	✓									
	4	BOTTOM 4 @ 2'					12/21/21	9:42AM	✓	✓	✓									
	5	BOTTOM 5 @ 3'					12/21/21	10:00AM	✓	✓	✓									
	6	BOTTOM 6 @ 3'					12/21/21	10:12AM	✓	✓	✓									
	7	BOTTOM 7 @ 3'					12/21/21	10:21AM	✓	✓	✓									
	8	BOTTOM 8 @ 3'					12/21/21	10:32AM	✓	✓	✓									
	9	SIDEWALL 1 @ 2'					12/21/21	10:44AM	✓	✓	✓									
	10	SIDEWALL 2 @ 2'																		

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Relinquished By:	Date: 12-21-21	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 1640		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One) -4.9°C -0.5°C	Sample Condition	CHECKED BY: (Initials)		
Sampler - UPS - Bus - Other: -5.4°C #113	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No			

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



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST																		
Project Manager: Cliff Brunson				P.O. #:																						
Address: P.O. Box 805				Company: (OXU)																						
City: Hobbs State: NM Zip: 88241				Attn:																						
Phone #: 575-397-6388 Fax #: 575-397-0397				Address:																						
Project #: Project Owner: Oxy				City:																						
Project Name: STATE 2 3 CTB (2/12/20)				State: Zip:																						
Project Location: NEW MEXICO				Phone #:																						
Sampler Name: SIMON				Fax #:																						
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																		
Lab I.D.	Sample I.D.	GRAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME												
4213690													12/21/21	10:55AM	✓	✓	✓									
11	SIDEWALL 1 @ 3'												12/21/21	11:10AM	✓	✓	✓									
12	SIDEWALL 2 @ 3'																									

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Relinquished By:	Date: 12-21-21 Time: 1640	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) -4.9°C -0.5°C			REMARKS:	
Sampler - UPS - Bus - Other: -5.4°C #113				
Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No			CHECKED BY: (Initials) T-0	

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



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

March 30, 2020

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: STATE 2 3 CTB

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

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at

www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

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

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

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

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

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

Reported:
30-Mar-20 12:24

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

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

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

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

Reported:
30-Mar-20 12:24

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

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

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

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

Surrogate: 4-Bromofluorobenzene (PID)			100 %	73.3-129		0032404	MS	24-Mar-20	8021B	
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Petroleum Hydrocarbons by GC FID

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

Surrogate: 1-Chlorooctane			87.4 %	44.3-144		0032406	MS	25-Mar-20	8015B	
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Surrogate: 1-Chlorooctadecane			95.9 %	42.2-156		0032406	MS	25-Mar-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

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

Reported:
30-Mar-20 12:24

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

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

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

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

Petroleum Hydrocarbons by GC FID

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

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

Surrogate: 1-Chlorooctadecane 95.3 % 42.2-156 0032406 MS 25-Mar-20 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

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

Reported:
30-Mar-20 12:24

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	0032504	GM	25-Mar-20	4500-Cl-B	
----------	------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

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

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

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

Surrogate: 1-Chlorooctane			90.6 %		44.3-144	0032406	MS	25-Mar-20	8015B	
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Surrogate: 1-Chlorooctadecane			97.2 %		42.2-156	0032406	MS	25-Mar-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

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

Reported:
30-Mar-20 12:24

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

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

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

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

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

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

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



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

Analytical Results For:

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

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

Reported:
30-Mar-20 12:24

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

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

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

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

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

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

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



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

Analytical Results For:

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

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

Reported:
30-Mar-20 12:24

SP 1 @ 1'
H000892-06 (Soil)

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

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

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

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

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

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



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

Analytical Results For:

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

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

Reported:
30-Mar-20 12:24

SP 1 @ 2'
H000892-07 (Soil)

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

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

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

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

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

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



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

Analytical Results For:

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

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

Reported:
30-Mar-20 12:24

SP 1 @ 3'
H000892-08 (Soil)

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

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

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

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

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

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



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Analytical Results For:

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

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

Reported:
30-Mar-20 12:24

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

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

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

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

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

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

Surrogate: 1-Chlorooctane	192 %		44.3-144			0032406	MS	25-Mar-20	8015B	
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Surrogate: 1-Chlorooctadecane	701 %		42.2-156			0032406	MS	25-Mar-20	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

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

Reported:
30-Mar-20 12:24

SP 2 @ 1'
H000892-10 (Soil)

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

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

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

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

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

Surrogate: 1-Chlorooctane	86.7 %	44.3-144	0032406	MS	25-Mar-20	8015B
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Surrogate: 1-Chlorooctadecane	95.9 %	42.2-156	0032406	MS	25-Mar-20	8015B
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

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

Reported:
30-Mar-20 12:24

SP 2 @ 2'
H000892-11 (Soil)

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

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

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

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

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

Surrogate: 1-Chlorooctane	89.7 %	44.3-144	0032406	MS	25-Mar-20	8015B
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Surrogate: 1-Chlorooctadecane	97.1 %	42.2-156	0032406	MS	25-Mar-20	8015B
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

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

Reported:
30-Mar-20 12:24

SP 2 @ 3'
H000892-12 (Soil)

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

Chloride	544		16.0	mg/kg	4	0032504	GM	25-Mar-20	4500-Cl-B	
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Analytical Results For:

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

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

Reported:
30-Mar-20 12:24

SP 2 @ 4'
H000892-13 (Soil)

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

Chloride	304		16.0	mg/kg	4	0032510	GM	25-Mar-20	4500-Cl-B	
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Analytical Results For:BBC International, Inc.
P.O. Box 805
Hobbs NM, 88241Project: STATE 2 3 CTB
Project Number: (2-12-20)
Project Manager: Cliff Brunson
Fax To: (575) 397-0397Reported:
30-Mar-20 12:24**SP 2 @ 5'**
H000892-14 (Soil)

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

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

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

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

Reported:
30-Mar-20 12:24

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

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

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

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

Surrogate: 4-Bromofluorobenzene (PID)	99.4 %	73.3-129	0032407	MS	24-Mar-20	8021B
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Petroleum Hydrocarbons by GC FID

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

Surrogate: 1-Chlorooctane	76.2 %	44.3-144	0032406	MS	25-Mar-20	8015B
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Surrogate: 1-Chlorooctadecane	83.8 %	42.2-156	0032406	MS	25-Mar-20	8015B
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Analytical Results For:

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

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

Reported:
30-Mar-20 12:24

SP 3 @ 1'
H000892-16 (Soil)

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

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

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

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

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

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

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

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

Reported:
30-Mar-20 12:24

SP 3 @ 2'
H000892-17 (Soil)

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

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

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

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

Reported:
30-Mar-20 12:24

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

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

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

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

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

Petroleum Hydrocarbons by GC FID

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

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

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

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Analytical Results For:

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

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

Reported:
30-Mar-20 12:24

SP 4 @ 1'
H000892-19 (Soil)

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

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

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

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

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

<i>Surrogate: 1-Chlorooctane</i>			86.5 %		44.3-144	0032406	MS	25-Mar-20	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			98.0 %		42.2-156	0032406	MS	25-Mar-20	8015B	
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Analytical Results For:

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

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

Reported:
30-Mar-20 12:24

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

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

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

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

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

Reported:
30-Mar-20 12:24

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0032504 - 1:4 DI Water**Blank (0032504-BLK1)**

Prepared & Analyzed: 25-Mar-20

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

Prepared & Analyzed: 25-Mar-20

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

Prepared & Analyzed: 25-Mar-20

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

Prepared & Analyzed: 25-Mar-20

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

Prepared & Analyzed: 25-Mar-20

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

Prepared & Analyzed: 25-Mar-20

Chloride	432	16.0	mg/kg	400	108	80-120	0.00	20	
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Analytical Results For:

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

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

Reported:
30-Mar-20 12:24

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

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

Prepared & Analyzed: 24-Mar-20

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

LCS (0032404-BS1)

Prepared & Analyzed: 24-Mar-20

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

LCS Dup (0032404-BSD1)

Prepared & Analyzed: 24-Mar-20

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

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

Prepared & Analyzed: 24-Mar-20

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

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

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

Reported:
30-Mar-20 12:24

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

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

Prepared & Analyzed: 24-Mar-20

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

LCS Dup (0032407-BS1)

Prepared & Analyzed: 24-Mar-20

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

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

Prepared & Analyzed: 27-Mar-20

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

LCS (0032707-BS1)

Prepared & Analyzed: 27-Mar-20

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

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Analytical Results For:

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

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

Reported:
30-Mar-20 12:24

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

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

Prepared & Analyzed: 27-Mar-20

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

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Analytical Results For:

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

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

Reported:
30-Mar-20 12:24

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

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

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

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

LCS (0032406-BS1)

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

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

LCS Dup (0032406-BS1)

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

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

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

Prepared & Analyzed: 27-Mar-20

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

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

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

Reported:
30-Mar-20 12:24

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

Prepared & Analyzed: 27-Mar-20

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

LCS Dup (0032706-BS1)

Prepared & Analyzed: 27-Mar-20

GRO C6-C10	207	10.0	mg/kg	200		104	78.8-127	1.10	15.1	
DRO >C10-C28	202	10.0	mg/kg	200		101	80-132	2.08	17.1	
Total TPH C6-C28	410	10.0	mg/kg	400		102	81.3-128	1.59	15	
Surrogate: 1-Chlorooctane	52.1		mg/kg	50.0		104	44.3-144			
Surrogate: 1-Chlorooctadecane	52.5		mg/kg	50.0		105	42.2-156			

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

Page 30 of 31



• CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST 1 of 2

[illegible]

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST 2 of 2

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

May 13, 2022

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: STATE 2 3 CTB

Enclosed are the results of analyses for samples received by the laboratory on 05/12/22 9:56.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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, 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.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received: 05/12/2022
 Reported: 05/13/2022
 Project Name: STATE 2 3 CTB
 Project Number: (2-12-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 05/09/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 9 @ 4' (H222007-01)

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	05/13/2022	ND	2.10	105	2.00	1.39		
Toluene*	<0.050	0.050	05/13/2022	ND	2.07	103	2.00	2.06		
Ethylbenzene*	<0.050	0.050	05/13/2022	ND	1.95	97.7	2.00	1.31		
Total Xylenes*	<0.150	0.150	05/13/2022	ND	6.06	101	6.00	1.97		
Total BTEX	<0.300	0.300	05/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/12/2022	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/13/2022	ND	218	109	200	8.39	
DRO >C10-C28*	<10.0	10.0	05/13/2022	ND	212	106	200	6.68	
EXT DRO >C28-C36	<10.0	10.0	05/13/2022	ND					

Surrogate: 1-Chlorooctane 105 % 66.9-136

Surrogate: 1-Chlorooctadecane 110 % 59.5-142

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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: 05/12/2022
 Reported: 05/13/2022
 Project Name: STATE 2 3 CTB
 Project Number: (2-12-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 05/09/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 9 @ 5' (H222007-02)

BTX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/13/2022	ND	2.10	105	2.00	1.39		
Toluene*	<0.050	0.050	05/13/2022	ND	2.07	103	2.00	2.06		
Ethylbenzene*	<0.050	0.050	05/13/2022	ND	1.95	97.7	2.00	1.31		
Total Xylenes*	<0.150	0.150	05/13/2022	ND	6.06	101	6.00	1.97		
Total BTX	<0.300	0.300	05/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/12/2022	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/13/2022	ND	218	109	200	8.39	
DRO >C10-C28*	<10.0	10.0	05/13/2022	ND	212	106	200	6.68	
EXT DRO >C28-C36	<10.0	10.0	05/13/2022	ND					

Surrogate: 1-Chlorooctane 83.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 87.0 % 59.5-142

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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: 05/12/2022
 Reported: 05/13/2022
 Project Name: STATE 2 3 CTB
 Project Number: (2-12-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 05/09/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 10 @ 3' (H222007-03)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/13/2022	ND	2.10	105	2.00	1.39	
Toluene*	<0.050	0.050	05/13/2022	ND	2.07	103	2.00	2.06	
Ethylbenzene*	<0.050	0.050	05/13/2022	ND	1.95	97.7	2.00	1.31	
Total Xylenes*	<0.150	0.150	05/13/2022	ND	6.06	101	6.00	1.97	
Total BTX	<0.300	0.300	05/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/12/2022	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/13/2022	ND	218	109	200	8.39	
DRO >C10-C28*	<10.0	10.0	05/13/2022	ND	212	106	200	6.68	
EXT DRO >C28-C36	<10.0	10.0	05/13/2022	ND					

Surrogate: 1-Chlorooctane 111 % 66.9-136

Surrogate: 1-Chlorooctadecane 115 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/12/2022
 Reported: 05/13/2022
 Project Name: STATE 2 3 CTB
 Project Number: (2-12-20)
 Project Location: OXY - EDDY CO NM

Sampling Date: 05/09/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 10 @ 5' (H222007-04)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/13/2022	ND	2.10	105	2.00	1.39		
Toluene*	<0.050	0.050	05/13/2022	ND	2.07	103	2.00	2.06		
Ethylbenzene*	<0.050	0.050	05/13/2022	ND	1.95	97.7	2.00	1.31		
Total Xylenes*	<0.150	0.150	05/13/2022	ND	6.06	101	6.00	1.97		
Total BTEx	<0.300	0.300	05/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/12/2022	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/13/2022	ND	218	109	200	8.39	
DRO >C10-C28*	<10.0	10.0	05/13/2022	ND	212	106	200	6.68	
EXT DRO >C28-C36	<10.0	10.0	05/13/2022	ND					

Surrogate: 1-Chlorooctane 103 % 66.9-136

Surrogate: 1-Chlorooctadecane 107 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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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

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

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

Company Name: BBC International, Inc.		BILL TO		ANALYSIS REQUEST										
Project Manager: Cliff Brunson		P.O. #:												
Address: P.O. Box 805		Company: Oxy												
City: Hobbs		Attn:												
State: NM Zip: 88241		Address:												
Phone #: 575-397-6388 Fax #: 575-397-0397		City:												
Project #:		State:												
Project Name: State 2 3 CTB (2/12/20)		Zip:												
Project Location: New Mexico		Phone #:												
Sampler Name: SIMON RENDON		Fax #:												
<small>FOR LAB USE ONLY</small>														
Lab I.D.	Sample I.D.	<input type="checkbox"/> (G)RAB OR <input type="checkbox"/> (C)OMP.	# CONTAINERS	MATRIX			PRESERV	SAMPLING						
				GROUNDWATER										
				WASTEWATER										
				SOIL										
				OIL										
				SLUDGE										
				OTHER :										
				ACID/BASE:										
				ICE / COOL										
				OTHER :										
					DATE	TIME								
4920007	BOTTOM 9 @ 4'	<input checked="" type="checkbox"/>	1		5-9-22	3:20 PM			Chloride					
1	BOTTOM 9 @ 5'				5-9-22	3:35 PM			BTEX					
2	BOTTOM 10 @ 3'				5-9-22	3:50 PM								
3	BOTTOM 10 @ 5'				5-9-22	4:15 PM								
4														
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>														
Relinquished By:		Date: 5-12-22	Received By:											
Relinquished By:		Time: 8:00 AM	Received By:											
Delivered By: (Circle One)		Date: 5-12-22	Received By:											
Delivered By: (Circle One)		Time: 4:56	Received By:											
Sampler - UPS - Bus - Other:		Sample Condition	CHECKED BY:											
		<input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact	(Initials)											
		<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No												
		REMARKS:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:											
			Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:											

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

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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 107945

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 107945
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Approved.	5/31/2022