

Closure Report

NAB1832536550

Site Description

Site Name:	Riverbend Federal B-11 CTB
Company:	Oxy, Permian
Legal Description:	U/L E, Section 23, T24S, R29E
County:	Eddy County NM
GPS Coordinates:	N 32.20372 W - 103.96246

Release Data

Date of Release:	10/30/18/
Type of Release:	Crude oil
Source of Release:	Oil tank spilled over due to level transmitter failure
Volume of Release:	200 bbls
Volume Recovered:	0 bbls

Remediation Specifications

Remediation Parameters:	Excavated the entire leak area to a depth of 2 ft. Collected bottom confirmation samples every 50ft. Backfilled the entire site with clean soil
Remediation Activities:	1/4/21 TO 5/5/21

Plan Sent to OCD:	6/26/2019	Email from Cliff Brunson to Robert Hamlet
OCD Approval of Plan:	7/12/2019	Email from Robert Hamlet to Cliff Brunson
Plan Sent to BLM:	6/26/2019	Email from Cliff Brunson to James Amos
BLM Approval of Plan:	11/19/2019	Email from James Amos to Cliff Brunson

Supporting Documentation

Initial C-141	signed and included	
C-141, page 6	signed and included	
Site Diagram	Google Earth map with excavation depths & confirmation sample points	
Pictures	Remediation photos	
Lab Summary/Analysis	Confirmation lab summary/analysis report for 2/20/20	
Depth to Groundwater	USGS Info	

Request for Closure

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

Cliff Brunson, President of BBC International Inc.

5/7/2021

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

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

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

Incident ID	NAB1832536550
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

Latitude N 32.20372 Longitude W-103.96246
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	RIVERBEND FEDERAL B-11 CTB	Site Type	BATTERY
Date Release Discovered	10/30/18	API# (if applicable)	

Unit Letter	Section	Township	Range	County
E	23	24S	29E	EDDY COUNTY, NM

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

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 200 BBLS	Volume Recovered (bbls) 0 BBLS
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release
OIL TANK SPILLED OVER DUE TO LEVEL TRANSMITTER FAILURE

Form C-141

State of New Mexico
Oil Conservation Division

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Incident ID	NAB1832536550
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Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? THE RELEASE IS MORE THAN 25 BBLS.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? YES, BY WADE DITTRICH OF OXY TO MIKE BRATCHER AND MARIA PRUETT OF NMOCD AND SHELLY TUCKER OF THE BLM ON 10/30/2018 VIA EMAIL	

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

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

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

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

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

Printed Name: Wade Dittrich Title: Environmental CoordinatorSignature: Date: 1/15/18email: wade_dittrich@oxy.comTelephone: (575) 390-2828**OCD Only**

Received by: _____ Date: _____

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State of New Mexico
Oil Conservation Division

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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 CoordinatorSignature:  Date: 3-30-21email: wade_dittrich@oxy.com Telephone: (575) 390-2828**OCD Only**

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

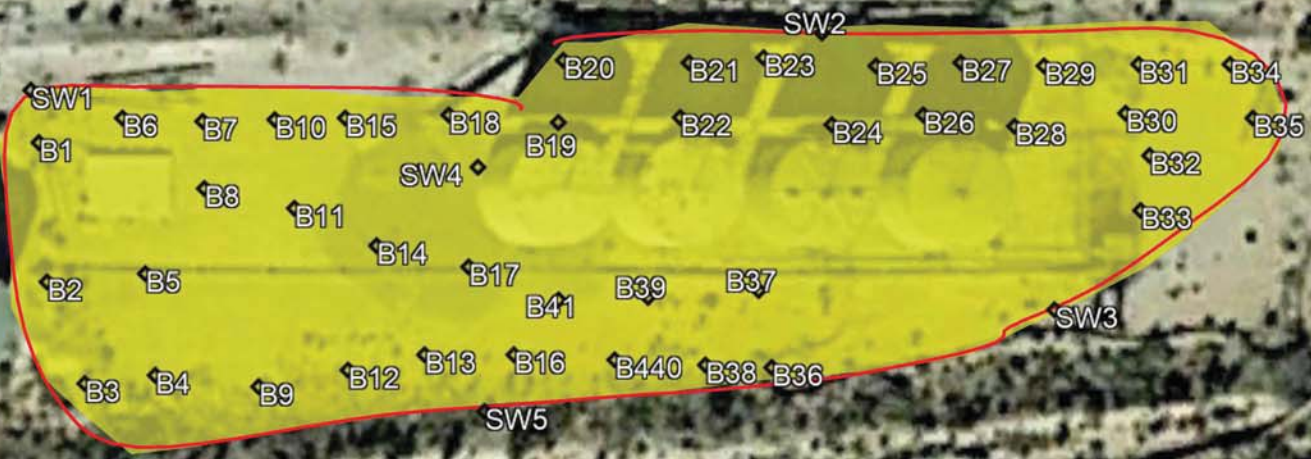
Oxy Riverbend Federal B-11 CTB

Leak Date: 10-30-2018
Eddy County, NM
Incident ID: NAB1832536550

Legend

2 ft Excavation

Leak Area



Oxy, Riverbend Federal B-11 CTB

Confirmation Sample points

BS1, N 32.20265 W-103.96242	BS26 N32.20366 W-103.96201
BS2, N 32.20360 W-103.96242	BS27 N32.20368 W-103.96199
BS3, N 32.20356 W-103.96240	BS28 N32.20366 W-103.96197
BS4, N 32.20355 W-103.96237	BS29 N32.20368 W-103.96196
BS5, N 32.20360 W-103.96237	BS30 N32.20366 W-103.96192
BS6, N 32.20366 W-103.96238	BS31 N32.20368 W-103.96191
BS7, N 32.20366 W-103.96235	BS32 N32.20365 W-103.96191
BS8, N 32.20363 W-103.96235	BS33 N32.20362 W-103.96191
BS9, N 32.20356 W-103.96233	BS34 N32.20368 W-103.96187
BS10, N 32.20366 W-103.96231	BS35 N32.20366 W-103.96186
BS11, N 32.20363 W-103.96230	BS36 N32.20357 W103.96207
BS12, N 32.20356 W-103.95230	BS37 N32.20359 W103.96204
BS13, N 32.20357 W-103.96224	BS38 N32.20356 W103.96211
BS14, N 32.20361 W-103.96227	BS39 N32.20359 W103.96210
BS15, N32.20366 W-103.96228	BS40 N32.20357 W103.96216
BS16, N32.20357 W-103.96220	BS41 N32.20359 W103.96218
BS17, N32.20360 W-103.96222	SW1 N32.203677 W103.96243
BS18, N32.20266 W-103.96223	SW2 N32.20369 W103.96205
BS19, N32.20364 W-103.96218	SW3 N32.20359 W103.96195
BS20, N32.20368 W-103.96218	SW4 N32.20364 W103.96222
BS21, N32.20368 W-103.96212	SW5 N32.20355 W103.96222
BS22, N32.20366 W-103.96212	
BS23, N32.20369 W-103.96209	
BS24, N32.20366 W-103.96205	
BS25, N32.20368 W-103.96203	

Laboratory Analytical Results Summary
Oxy, Riverbend Federal B-11 CTB (10-30-18)

		Sample ID	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10
Analyte	Method	Date	3/11/21	3/11/21	3/11/21	3/11/21	3/11/21	3/11/21	3/11/21	3/11/21	3/11/21	3/11/21
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		<16.0	<16.0	32	32	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	28.4	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

		Sample ID	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20
Analyte	Method	Date	3/11/21	3/11/21	3/11/21	3/11/21	3/11/21	3/11/21	3/11/21	3/11/21	3/11/21	3/11/21
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		<16.0	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	62.3	106	193	<10.0	12.8	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	14.0	29.6	65.3	<10.0	<10.0	<10.0	<10.0

		Sample ID	B21	B22	B23	B24	B25	B26	B27	B28	B29	B30
Analyte	Method	Date	3/11/21	3/11/21	3/11/21	3/11/21	3/11/21	3/11/21	3/12/21	3/12/21	3/12/21	3/12/21
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		<16.0	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	16.7	173	220	64.6	79.3	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	49.8	57.7	16.1	17.0	<10.0	<10.0

		Sample ID	B31	B32	B33	B34	B35	B36	B37	B38	B39	B40	B41
Analyte	Method	Date	3/12/21	3/12/21	3/12/21	3/12/21	3/12/21	3/12/21	3/12/21	3/12/21	3/12/21	3/12/21	3/12/21
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		<16.0	<16.0	<16.0	<16.0	<10.0	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	>10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<20.2	34.4	60.9	111	134	71.7	44.5	61.2
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	17.0	24.9	31.3	10.4	<10.0	11.3

Laboratory Analytical Results Summary
Oxy, Riverbend Federal B-11 CTB (10-30-18)

		Sample ID	SW1	SW2	SW3	SW4	SW5
Analyte	Method	Date	3/12/21	3/12/21	3/12/21	3/12/21	3/12/21
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		<16.0	<16.0	<16.0	16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		51.1	101	109	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	17.9	22.3	<10.0	<10.0

		Sample ID	BS15	BS16	BS25	BS26	BS37	BS38	SW2	SW3
Analyte	Method	Date	3/19/21	3/19/21	3/19/21	3/19/21	3/19/21	3/19/21	3/19/21	3/19/21
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		<16.0	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

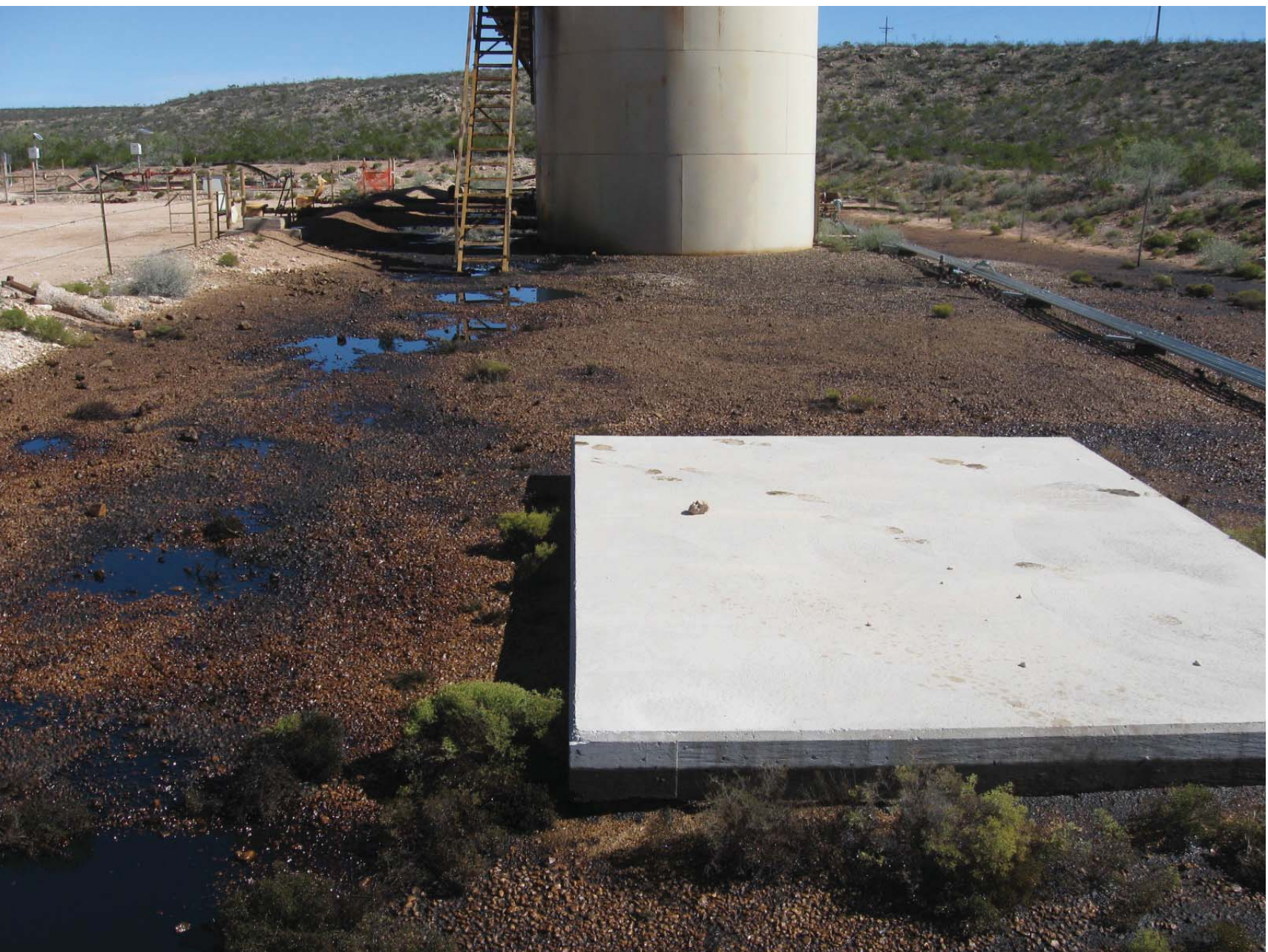
PO BOX 15A INC. NY

RIVERBEND B-11 BATTERY

SEC. 23, T24S, R29E

EDDY CO., NM #NM 81586







15/01/2021



15/01/2021



15/01/2021



15/01/2021



05/05/2021



05/05/2021



05/05/2021





05/05/2021



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

April 16, 2019

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: RIVERBEND B-11 CTB

Enclosed are the results of analyses for samples received by the laboratory on 04/12/19 10:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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:	04/12/2019	Sampling Date:	04/10/2019
Reported:	04/16/2019	Sampling Type:	Soil
Project Name:	RIVERBEND B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: SP 1 @ 2' (H901352-01)

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	04/13/2019	ND	2.04	102	2.00	0.584	
Toluene*	<0.050	0.050	04/13/2019	ND	1.94	97.0	2.00	1.81	
Ethylbenzene*	<0.050	0.050	04/13/2019	ND	2.01	100	2.00	0.468	
Total Xylenes*	<0.150	0.150	04/13/2019	ND	6.07	101	6.00	0.157	
Total BTEX	<0.300	0.300	04/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.5 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/16/2019	ND	400	100	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	04/12/2019	ND	204	102	200	0.864	
DRO >C10-C28*	<10.0	10.0	04/12/2019	ND	208	104	200	2.17	
EXT DRO >C28-C36	<10.0	10.0	04/12/2019	ND					

Surrogate: 1-Chlorooctane 81.0 % 41-142

Surrogate: 1-Chlorooctadecane 84.8 % 37.6-147

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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: 04/12/2019
 Reported: 04/16/2019
 Project Name: RIVERBEND B-11 CTB
 Project Number: (10/30/18)
 Project Location: OXY - MALAGA, NM

Sampling Date: 04/10/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 1 @ 3' (H901352-02)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2019	ND	2.04	102	2.00	0.584	
Toluene*	<0.050	0.050	04/13/2019	ND	1.94	97.0	2.00	1.81	
Ethylbenzene*	<0.050	0.050	04/13/2019	ND	2.01	100	2.00	0.468	
Total Xylenes*	<0.150	0.150	04/13/2019	ND	6.07	101	6.00	0.157	
Total BTEx	<0.300	0.300	04/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/16/2019	ND	400	100	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	04/12/2019	ND	204	102	200	0.864	
DRO >C10-C28*	<10.0	10.0	04/12/2019	ND	208	104	200	2.17	
EXT DRO >C28-C36	<10.0	10.0	04/12/2019	ND					

Surrogate: 1-Chlorooctane 83.3 % 41-142

Surrogate: 1-Chlorooctadecane 87.2 % 37.6-147

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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: 04/12/2019
 Reported: 04/16/2019
 Project Name: RIVERBEND B-11 CTB
 Project Number: (10/30/18)
 Project Location: OXY - MALAGA, NM

Sampling Date: 04/10/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 2' (H901352-03)

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	04/13/2019	ND	2.04	102	2.00	0.584	
Toluene*	<0.050	0.050	04/13/2019	ND	1.94	97.0	2.00	1.81	
Ethylbenzene*	<0.050	0.050	04/13/2019	ND	2.01	100	2.00	0.468	
Total Xylenes*	<0.150	0.150	04/13/2019	ND	6.07	101	6.00	0.157	
Total BTEX	<0.300	0.300	04/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/16/2019	ND	400	100	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	04/13/2019	ND	194	97.0	200	4.04	
DRO >C10-C28*	<10.0	10.0	04/13/2019	ND	190	95.0	200	4.16	
EXT DRO >C28-C36	<10.0	10.0	04/13/2019	ND					

Surrogate: 1-Chlorooctane 93.5 % 41-142

Surrogate: 1-Chlorooctadecane 94.6 % 37.6-147

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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: 04/12/2019
 Reported: 04/16/2019
 Project Name: RIVERBEND B-11 CTB
 Project Number: (10/30/18)
 Project Location: OXY - MALAGA, NM

Sampling Date: 04/10/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 2 @ 3' (H901352-04)

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	04/13/2019	ND	2.04	102	2.00	0.584	
Toluene*	<0.050	0.050	04/13/2019	ND	1.94	97.0	2.00	1.81	
Ethylbenzene*	<0.050	0.050	04/13/2019	ND	2.01	100	2.00	0.468	
Total Xylenes*	<0.150	0.150	04/13/2019	ND	6.07	101	6.00	0.157	
Total BTEX	<0.300	0.300	04/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/16/2019	ND	400	100	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	04/13/2019	ND	194	97.0	200	4.04	
DRO >C10-C28*	<10.0	10.0	04/13/2019	ND	190	95.0	200	4.16	
EXT DRO >C28-C36	<10.0	10.0	04/13/2019	ND					

Surrogate: 1-Chlorooctane 93.1 % 41-142

Surrogate: 1-Chlorooctadecane 94.9 % 37.6-147

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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: 04/12/2019
 Reported: 04/16/2019
 Project Name: RIVERBEND B-11 CTB
 Project Number: (10/30/18)
 Project Location: OXY - MALAGA, NM

Sampling Date: 04/10/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ 2' (H901352-05)

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	04/13/2019	ND	2.04	102	2.00	0.584	
Toluene*	<0.050	0.050	04/13/2019	ND	1.94	97.0	2.00	1.81	
Ethylbenzene*	<0.050	0.050	04/13/2019	ND	2.01	100	2.00	0.468	
Total Xylenes*	<0.150	0.150	04/13/2019	ND	6.07	101	6.00	0.157	
Total BTX	<0.300	0.300	04/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/16/2019	ND	400	100	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	04/13/2019	ND	194	97.0	200	4.04	
DRO >C10-C28*	<10.0	10.0	04/13/2019	ND	190	95.0	200	4.16	
EXT DRO >C28-C36	<10.0	10.0	04/13/2019	ND					

Surrogate: 1-Chlorooctane 91.5 % 41-142

Surrogate: 1-Chlorooctadecane 93.1 % 37.6-147

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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: 04/12/2019
 Reported: 04/16/2019
 Project Name: RIVERBEND B-11 CTB
 Project Number: (10/30/18)
 Project Location: OXY - MALAGA, NM

Sampling Date: 04/10/2019
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SP 3 @ 3' (H901352-06)

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	04/13/2019	ND	2.04	102	2.00	0.584	
Toluene*	<0.050	0.050	04/13/2019	ND	1.94	97.0	2.00	1.81	
Ethylbenzene*	<0.050	0.050	04/13/2019	ND	2.01	100	2.00	0.468	
Total Xylenes*	<0.150	0.150	04/13/2019	ND	6.07	101	6.00	0.157	
Total BTX	<0.300	0.300	04/13/2019	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/16/2019	ND	400	100	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	04/13/2019	ND	194	97.0	200	4.04	
DRO >C10-C28*	<10.0	10.0	04/13/2019	ND	190	95.0	200	4.16	
EXT DRO >C28-C36	<10.0	10.0	04/13/2019	ND					

Surrogate: 1-Chlorooctane 81.8 % 41-142

Surrogate: 1-Chlorooctadecane 82.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

Page 9 of 9



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

November 26, 2018

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: RIVERBEND B-11 CTB

Enclosed are the results of analyses for samples received by the laboratory on 11/19/18 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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: 11/19/2018
 Reported: 11/26/2018
 Project Name: RIVERBEND B-11 CTB
 Project Number: (10/30/18)
 Project Location: OXY - EDDY CO NM

Sampling Date: 11/16/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ SURFACE (H803381-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/21/2018	ND	2.01	101	2.00	1.81	
Toluene*	0.837	0.050	11/21/2018	ND	1.98	99.0	2.00	3.56	
Ethylbenzene*	1.03	0.050	11/21/2018	ND	1.93	96.3	2.00	3.07	
Total Xylenes*	4.73	0.150	11/21/2018	ND	5.67	94.4	6.00	2.44	
Total BTEX	6.60	0.300	11/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	11/21/2018	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	153	50.0	11/21/2018	ND	213	106	200	4.97		
DRO >C10-C28*	9830	50.0	11/21/2018	ND	224	112	200	7.96		
EXT DRO >C28-C36	2180	50.0	11/21/2018	ND						

Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 381 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/19/2018
 Reported: 11/26/2018
 Project Name: RIVERBEND B-11 CTB
 Project Number: (10/30/18)
 Project Location: OXY - EDDY CO NM

Sampling Date: 11/16/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1' (H803381-02)

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	11/21/2018	ND	2.01	101	2.00	1.81	
Toluene*	<0.050	0.050	11/21/2018	ND	1.98	99.0	2.00	3.56	
Ethylbenzene*	0.081	0.050	11/21/2018	ND	1.93	96.3	2.00	3.07	
Total Xylenes*	0.382	0.150	11/21/2018	ND	5.67	94.4	6.00	2.44	
Total BTX	0.463	0.300	11/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/21/2018	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	11/21/2018	ND	213	106	200	4.97	
DRO >C10-C28*	226	10.0	11/21/2018	ND	224	112	200	7.96	
EXT DRO >C28-C36	84.2	10.0	11/21/2018	ND					

Surrogate: 1-Chlorooctane 83.5 % 41-142

Surrogate: 1-Chlorooctadecane 93.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/19/2018
 Reported: 11/26/2018
 Project Name: RIVERBEND B-11 CTB
 Project Number: (10/30/18)
 Project Location: OXY - EDDY CO NM

Sampling Date: 11/16/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ SURFACE (H803381-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.052	0.050	11/21/2018	ND	2.01	101	2.00	1.81	
Toluene*	1.15	0.050	11/21/2018	ND	1.98	99.0	2.00	3.56	
Ethylbenzene*	1.23	0.050	11/21/2018	ND	1.93	96.3	2.00	3.07	
Total Xylenes*	6.05	0.150	11/21/2018	ND	5.67	94.4	6.00	2.44	
Total BTX	8.48	0.300	11/21/2018	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10200	16.0	11/21/2018	ND	432	108	400	0.00		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	179	50.0	11/21/2018	ND	213	106	200	4.97	
DRO >C10-C28*	9680	50.0	11/21/2018	ND	224	112	200	7.96	
EXT DRO >C28-C36	2130	50.0	11/21/2018	ND					

Surrogate: 1-Chlorooctane 114 % 41-142

Surrogate: 1-Chlorooctadecane 387 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/19/2018
 Reported: 11/26/2018
 Project Name: RIVERBEND B-11 CTB
 Project Number: (10/30/18)
 Project Location: OXY - EDDY CO NM

Sampling Date: 11/16/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 1' (H803381-04)

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	11/21/2018	ND	2.01	101	2.00	1.81	
Toluene*	0.060	0.050	11/21/2018	ND	1.98	99.0	2.00	3.56	
Ethylbenzene*	0.113	0.050	11/21/2018	ND	1.93	96.3	2.00	3.07	
Total Xylenes*	0.548	0.150	11/21/2018	ND	5.67	94.4	6.00	2.44	
Total BTEX	0.721	0.300	11/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/21/2018	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	11/21/2018	ND	213	106	200	4.97	
DRO >C10-C28*	211	10.0	11/21/2018	ND	224	112	200	7.96	
EXT DRO >C28-C36	75.4	10.0	11/21/2018	ND					

Surrogate: 1-Chlorooctane 85.4 % 41-142

Surrogate: 1-Chlorooctadecane 94.7 % 37.6-147

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Analytical Results For:

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Received: 11/19/2018
 Reported: 11/26/2018
 Project Name: RIVERBEND B-11 CTB
 Project Number: (10/30/18)
 Project Location: OXY - EDDY CO NM

Sampling Date: 11/16/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ SURFACE (H803381-05)

BTEx 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.069	0.050	11/21/2018	ND	2.01	101	2.00	1.81	
Toluene*	1.23	0.050	11/21/2018	ND	1.98	99.0	2.00	3.56	
Ethylbenzene*	1.30	0.050	11/21/2018	ND	1.93	96.3	2.00	3.07	
Total Xylenes*	6.36	0.150	11/21/2018	ND	5.67	94.4	6.00	2.44	
Total BTEx	8.96	0.300	11/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 133 % 73.3-129

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11800	16.0	11/21/2018	ND	400	100	400	0.00	QM-07

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	152	50.0	11/21/2018	ND	213	106	200	4.97	
DRO >C10-C28*	8180	50.0	11/21/2018	ND	224	112	200	7.96	
EXT DRO >C28-C36	1810	50.0	11/21/2018	ND					

Surrogate: 1-Chlorooctane 119 % 41-142

Surrogate: 1-Chlorooctadecane 357 % 37.6-147

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Analytical Results For:

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Received: 11/19/2018
 Reported: 11/26/2018
 Project Name: RIVERBEND B-11 CTB
 Project Number: (10/30/18)
 Project Location: OXY - EDDY CO NM

Sampling Date: 11/16/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ 1' (H803381-06)

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	11/21/2018	ND	2.01	101	2.00	1.81	
Toluene*	0.078	0.050	11/21/2018	ND	1.98	99.0	2.00	3.56	
Ethylbenzene*	0.104	0.050	11/21/2018	ND	1.93	96.3	2.00	3.07	
Total Xylenes*	0.500	0.150	11/21/2018	ND	5.67	94.4	6.00	2.44	
Total BTX	0.682	0.300	11/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/21/2018	ND	400	100	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	11/21/2018	ND	213	106	200	4.97	
DRO >C10-C28*	249	10.0	11/21/2018	ND	224	112	200	7.96	
EXT DRO >C28-C36	90.1	10.0	11/21/2018	ND					

Surrogate: 1-Chlorooctane 83.9 % 41-142

Surrogate: 1-Chlorooctadecane 94.5 % 37.6-147

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Received: 11/19/2018
 Reported: 11/26/2018
 Project Name: RIVERBEND B-11 CTB
 Project Number: (10/30/18)
 Project Location: OXY - EDDY CO NM

Sampling Date: 11/16/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 4 @ SURFACE (H803381-07)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.226	0.050	11/21/2018	ND	2.01	101	2.00	1.81	
Toluene*	4.87	0.050	11/21/2018	ND	1.98	99.0	2.00	3.56	
Ethylbenzene*	5.14	0.050	11/21/2018	ND	1.93	96.3	2.00	3.07	
Total Xylenes*	22.6	0.150	11/21/2018	ND	5.67	94.4	6.00	2.44	
Total BTX	32.9	0.300	11/21/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	11/21/2018	ND	400	100	400	0.00		

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	821	50.0	11/21/2018	ND	213	106	200	4.97	
DRO >C10-C28*	24900	50.0	11/21/2018	ND	224	112	200	7.96	
EXT DRO >C28-C36	4640	50.0	11/21/2018	ND					

Surrogate: 1-Chlorooctane 160 % 41-142

Surrogate: 1-Chlorooctadecane 833 % 37.6-147

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Received: 11/19/2018
 Reported: 11/26/2018
 Project Name: RIVERBEND B-11 CTB
 Project Number: (10/30/18)
 Project Location: OXY - EDDY CO NM

Sampling Date: 11/16/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 4 @ 1' (H803381-08)

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	11/22/2018	ND	2.01	101	2.00	1.81	
Toluene*	0.857	0.050	11/22/2018	ND	1.98	99.0	2.00	3.56	
Ethylbenzene*	<0.050	0.050	11/22/2018	ND	1.93	96.3	2.00	3.07	
Total Xylenes*	6.57	0.150	11/22/2018	ND	5.67	94.4	6.00	2.44	
Total BTEX	7.43	0.300	11/22/2018	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/21/2018	ND	400	100	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*	100	10.0	11/21/2018	ND	213	106	200	4.97	
DRO >C10-C28*	1200	10.0	11/21/2018	ND	224	112	200	7.96	
EXT DRO >C28-C36	226	10.0	11/21/2018	ND					

Surrogate: 1-Chlorooctane 72.8 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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Received: 11/19/2018
 Reported: 11/26/2018
 Project Name: RIVERBEND B-11 CTB
 Project Number: (10/30/18)
 Project Location: OXY - EDDY CO NM

Sampling Date: 11/16/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 4 @ 2' (H803381-09)

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	11/22/2018	ND	2.01	101	2.00	1.81		
Toluene*	<0.050	0.050	11/22/2018	ND	1.98	99.0	2.00	3.56		
Ethylbenzene*	<0.050	0.050	11/22/2018	ND	1.93	96.3	2.00	3.07		
Total Xylenes*	<0.150	0.150	11/22/2018	ND	5.67	94.4	6.00	2.44		
Total BTEx	<0.300	0.300	11/22/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/21/2018	ND	400	100	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	11/21/2018	ND	213	106	200	4.97	
DRO >C10-C28*	17.5	10.0	11/21/2018	ND	224	112	200	7.96	
EXT DRO >C28-C36	<10.0	10.0	11/21/2018	ND					

Surrogate: 1-Chlorooctane 82.1 % 41-142

Surrogate: 1-Chlorooctadecane 86.0 % 37.6-147

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Received: 11/19/2018
 Reported: 11/26/2018
 Project Name: RIVERBEND B-11 CTB
 Project Number: (10/30/18)
 Project Location: OXY - EDDY CO NM

Sampling Date: 11/16/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 5 @ SURFACE (H803381-10)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.283	0.050	11/22/2018	ND	2.01	101	2.00	1.81	
Toluene*	5.43	0.050	11/22/2018	ND	1.98	99.0	2.00	3.56	
Ethylbenzene*	5.19	0.050	11/22/2018	ND	1.93	96.3	2.00	3.07	
Total Xylenes*	23.3	0.150	11/22/2018	ND	5.67	94.4	6.00	2.44	
Total BTX	34.2	0.300	11/22/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	11/21/2018	ND	400	100	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						S-06

TPH 8015M	mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	549	50.0	11/21/2018	ND	213	106	200	4.97	
DRO >C10-C28*	17000	50.0	11/21/2018	ND	224	112	200	7.96	
EXT DRO >C28-C36	3370	50.0	11/21/2018	ND					

Surrogate: 1-Chlorooctane 135 % 41-142

Surrogate: 1-Chlorooctadecane 594 % 37.6-147

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Received: 11/19/2018
 Reported: 11/26/2018
 Project Name: RIVERBEND B-11 CTB
 Project Number: (10/30/18)
 Project Location: OXY - EDDY CO NM

Sampling Date: 11/16/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 5 @ 1' (H803381-11)

BTX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2018	ND	2.01	101	2.00	1.81	
Toluene*	0.352	0.050	11/22/2018	ND	1.98	99.0	2.00	3.56	
Ethylbenzene*	<0.050	0.050	11/22/2018	ND	1.93	96.3	2.00	3.07	
Total Xylenes*	3.34	0.150	11/22/2018	ND	5.67	94.4	6.00	2.44	
Total BTX	3.69	0.300	11/22/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 156 % 73.3-129

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/21/2018	ND	400	100	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*	115	10.0	11/21/2018	ND	193	96.6	200	3.04	
DRO >C10-C28*	1770	10.0	11/21/2018	ND	192	95.9	200	4.07	QM-07, QR-03
EXT DRO >C28-C36	319	10.0	11/21/2018	ND					

Surrogate: 1-Chlorooctane 102 % 41-142

Surrogate: 1-Chlorooctadecane 143 % 37.6-147

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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: 11/19/2018
 Reported: 11/26/2018
 Project Name: RIVERBEND B-11 CTB
 Project Number: (10/30/18)
 Project Location: OXY - EDDY CO NM

Sampling Date: 11/16/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 5 @ 2' (H803381-12)

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	11/22/2018	ND	2.01	101	2.00	1.81	
Toluene*	<0.050	0.050	11/22/2018	ND	1.98	99.0	2.00	3.56	
Ethylbenzene*	<0.050	0.050	11/22/2018	ND	1.93	96.3	2.00	3.07	
Total Xylenes*	<0.150	0.150	11/22/2018	ND	5.67	94.4	6.00	2.44	
Total BTEx	<0.300	0.300	11/22/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/21/2018	ND	400	100	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	11/21/2018	ND	193	96.6	200	3.04	
DRO >C10-C28*	28.7	10.0	11/21/2018	ND	192	95.9	200	4.07	
EXT DRO >C28-C36	11.2	10.0	11/21/2018	ND					

Surrogate: 1-Chlorooctane 85.9 % 41-142

Surrogate: 1-Chlorooctadecane 87.0 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/19/2018
 Reported: 11/26/2018
 Project Name: RIVERBEND B-11 CTB
 Project Number: (10/30/18)
 Project Location: OXY - EDDY CO NM

Sampling Date: 11/16/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 6 @ SURFACE (H803381-13)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.285	0.050	11/22/2018	ND	2.01	101	2.00	1.81	
Toluene*	5.72	0.050	11/22/2018	ND	1.98	99.0	2.00	3.56	
Ethylbenzene*	5.51	0.050	11/22/2018	ND	1.93	96.3	2.00	3.07	
Total Xylenes*	24.6	0.150	11/22/2018	ND	5.67	94.4	6.00	2.44	
Total BTX	36.1	0.300	11/22/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.4 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/21/2018	ND	400	100	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	591	50.0	11/21/2018	ND	193	96.6	200	3.04	
DRO >C10-C28*	18600	50.0	11/21/2018	ND	192	95.9	200	4.07	
EXT DRO >C28-C36	3550	50.0	11/21/2018	ND					

Surrogate: 1-Chlorooctane 142 % 41-142

Surrogate: 1-Chlorooctadecane 661 % 37.6-147

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Analytical Results For:

BBC International, Inc.
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 Fax To: (575) 397-0397

Received: 11/19/2018
 Reported: 11/26/2018
 Project Name: RIVERBEND B-11 CTB
 Project Number: (10/30/18)
 Project Location: OXY - EDDY CO NM

Sampling Date: 11/16/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 6 @ 1' (H803381-14)

BTX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2018	ND	2.01	101	2.00	1.81	
Toluene*	0.399	0.050	11/22/2018	ND	1.98	99.0	2.00	3.56	
Ethylbenzene*	<0.050	0.050	11/22/2018	ND	1.93	96.3	2.00	3.07	
Total Xylenes*	3.45	0.150	11/22/2018	ND	5.67	94.4	6.00	2.44	
Total BTX	3.85	0.300	11/22/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 162 % 73.3-129

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/21/2018	ND	400	100	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	117	10.0	11/21/2018	ND	193	96.6	200	3.04	
DRO >C10-C28*	2120	10.0	11/21/2018	ND	192	95.9	200	4.07	
EXT DRO >C28-C36	400	10.0	11/21/2018	ND					

Surrogate: 1-Chlorooctane 93.6 % 41-142

Surrogate: 1-Chlorooctadecane 157 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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 Fax To: (575) 397-0397

Received: 11/19/2018
 Reported: 11/26/2018
 Project Name: RIVERBEND B-11 CTB
 Project Number: (10/30/18)
 Project Location: OXY - EDDY CO NM

Sampling Date: 11/16/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 6 @ 2' (H803381-15)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/22/2018	ND	2.01	101	2.00	1.81	
Toluene*	<0.050	0.050	11/22/2018	ND	1.98	99.0	2.00	3.56	
Ethylbenzene*	<0.050	0.050	11/22/2018	ND	1.93	96.3	2.00	3.07	
Total Xylenes*	<0.150	0.150	11/22/2018	ND	5.67	94.4	6.00	2.44	
Total BTEx	<0.300	0.300	11/22/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/21/2018	ND	400	100	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	11/21/2018	ND	193	96.6	200	3.04	
DRO >C10-C28*	27.1	10.0	11/21/2018	ND	192	95.9	200	4.07	
EXT DRO >C28-C36	<10.0	10.0	11/21/2018	ND					

Surrogate: 1-Chlorooctane 94.9 % 41-142

Surrogate: 1-Chlorooctadecane 106 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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 P.O. Box 805
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Received: 11/19/2018
 Reported: 11/26/2018
 Project Name: RIVERBEND B-11 CTB
 Project Number: (10/30/18)
 Project Location: OXY - EDDY CO NM

Sampling Date: 11/16/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: NORTH @ SURFACE (H803381-16)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/22/2018	ND	2.01	101	2.00	1.81		
Toluene*	<0.050	0.050	11/22/2018	ND	1.98	99.0	2.00	3.56		
Ethylbenzene*	<0.050	0.050	11/22/2018	ND	1.93	96.3	2.00	3.07		
Total Xylenes*	<0.150	0.150	11/22/2018	ND	5.67	94.4	6.00	2.44		
Total BTEx	<0.300	0.300	11/22/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/21/2018	ND	400	100	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	11/21/2018	ND	193	96.6	200	3.04	
DRO >C10-C28*	<10.0	10.0	11/21/2018	ND	192	95.9	200	4.07	
EXT DRO >C28-C36	<10.0	10.0	11/21/2018	ND					

Surrogate: 1-Chlorooctane 81.9 % 41-142

Surrogate: 1-Chlorooctadecane 88.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/19/2018
 Reported: 11/26/2018
 Project Name: RIVERBEND B-11 CTB
 Project Number: (10/30/18)
 Project Location: OXY - EDDY CO NM

Sampling Date: 11/16/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: EAST @ SURFACE (H803381-17)

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	11/22/2018	ND	2.01	101	2.00	1.81	
Toluene*	<0.050	0.050	11/22/2018	ND	1.98	99.0	2.00	3.56	
Ethylbenzene*	<0.050	0.050	11/22/2018	ND	1.93	96.3	2.00	3.07	
Total Xylenes*	<0.150	0.150	11/22/2018	ND	5.67	94.4	6.00	2.44	
Total BTX	<0.300	0.300	11/22/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/21/2018	ND	400	100	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	11/21/2018	ND	193	96.6	200	3.04	
DRO >C10-C28*	<10.0	10.0	11/21/2018	ND	192	95.9	200	4.07	
EXT DRO >C28-C36	<10.0	10.0	11/21/2018	ND					

Surrogate: 1-Chlorooctane 78.2 % 41-142

Surrogate: 1-Chlorooctadecane 83.1 % 37.6-147

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Analytical Results For:

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Received: 11/19/2018
 Reported: 11/26/2018
 Project Name: RIVERBEND B-11 CTB
 Project Number: (10/30/18)
 Project Location: OXY - EDDY CO NM

Sampling Date: 11/16/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SOUTH @ SURFACE (H803381-18)

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	11/22/2018	ND	2.20	110	2.00	2.51	
Toluene*	<0.050	0.050	11/22/2018	ND	2.19	110	2.00	3.05	
Ethylbenzene*	<0.050	0.050	11/22/2018	ND	2.11	106	2.00	3.51	
Total Xylenes*	<0.150	0.150	11/22/2018	ND	6.29	105	6.00	3.35	
Total BTX	<0.300	0.300	11/22/2018	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/21/2018	ND	400	100	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	11/21/2018	ND	193	96.6	200	3.04	
DRO >C10-C28*	<10.0	10.0	11/21/2018	ND	192	95.9	200	4.07	
EXT DRO >C28-C36	<10.0	10.0	11/21/2018	ND					

Surrogate: 1-Chlorooctane 85.3 % 41-142

Surrogate: 1-Chlorooctadecane 90.3 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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Received: 11/19/2018
 Reported: 11/26/2018
 Project Name: RIVERBEND B-11 CTB
 Project Number: (10/30/18)
 Project Location: OXY - EDDY CO NM

Sampling Date: 11/16/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: WEST @ SURFACE (H803381-19)

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	11/22/2018	ND	2.20	110	2.00	2.51	
Toluene*	<0.050	0.050	11/22/2018	ND	2.19	110	2.00	3.05	
Ethylbenzene*	<0.050	0.050	11/22/2018	ND	2.11	106	2.00	3.51	
Total Xylenes*	<0.150	0.150	11/22/2018	ND	6.29	105	6.00	3.35	
Total BTX	<0.300	0.300	11/22/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/21/2018	ND	400	100	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	11/21/2018	ND	193	96.6	200	3.04	
DRO >C10-C28*	<10.0	10.0	11/21/2018	ND	192	95.9	200	4.07	
EXT DRO >C28-C36	<10.0	10.0	11/21/2018	ND					

Surrogate: 1-Chlorooctane 94.5 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager

c2 jo 22 ebg



ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1082

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST			
Project Manager: Cliff Brunson				P.O. #:							
Address: P.O. Box 805				Company:							
City: Hobbs				State: NM Zip: 88241				Attn: <i>W.D. Hirsch</i>			
Phone #: 575-397-6388				Fax #: 575-397-0397				Address:			
Project #:				Project Owner: Oxy				City:			
Project Name: Riverbend B-11 CTB (10/30/18)				State:				Zip:			
Project Location: Eddy County, NM				Phone #:							
Sampler Name: Roger Hernandez				Fax #:							

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	DATE	TIME	BTEX	CI	TPH EXT
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :						
1	SP1 @ SURFACE		1								11/16/18	9:50 AM	✓	✓	✓
2	SP1 @ 1'										11/16/18	10:10 AM	✓	✓	✓
3	SP2 @ SURFACE										11/16/18	10:20 AM	✓	✓	✓
4	SP2 @ 1'										11/16/18	10:32 AM	✓	✓	✓
5	SP3 @ SURFACE										11/16/18	10:45 AM	✓	✓	✓
6	SP3 @ 1'										11/16/18	10:58 AM	✓	✓	✓
7	SP4 @ SURFACE										11/16/18	11:08 AM	✓	✓	✓
8	SP4 @ 1'										11/16/18	11:25 AM	✓	✓	✓
9	SP4 @ 2'										11/16/18	11:39 AM	✓	✓	✓
10	SP5 @ SURFACE										11/16/18	12:34 PM	✓	✓	✓

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Relinquished By: <i>Handwritten Signature</i>	Date: <i>11/16/18</i>	Time: <i>5:30 PM</i>	Received By: <i>Handwritten Signature</i>	Date: <i>11/19/18</i>	Time: <i>10:00 AM</i>	Sample Condition: <i>Good</i>	CHECKED BY: <i>Handwritten Signature</i>
Delivered By: (Circle One)	Sampler - UPS - Bus - Other: <i>1.50 / #97</i>	Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact	CHECKED BY: <i>Handwritten Signature</i>				

REMARKS:

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

C2 jo C2 ebaD

**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:									
City: Hobbs				Attn: W. Brunson									
State: NM Zip: 88241				Address:									
Phone #: 575-397-6388 Fax #: 575-397-0397				City:									
Project #: Project Owner: Oxy				State:									
Project Name: Riverbend B-11 CTB (10/30/18)				Zip:									
Project Location: Eddy County, NM				Phone #:									
Sample Name: Roger Hernandez				Fax #:									
FOR LAB USE ONLY													
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV		SAMPLING	
H903381				6		1		GROUNDWATER					
11 SP5 @ 1'								WASTEWATER					
12 SP5 @ 2'								SOIL					
13 SP6 @ SURFACE								OIL					
14 SP6 @ 1'								SLUDGE					
15 SP6 @ 2'								OTHER :					
16 NORTH @ SURFACE								ACID/BASE:					
17 EAST @ SURFACE								ICE / COOL					
18 SOUTH @ SURFACE								OTHER :					
19 WEST @ SURFACE													
								DATE		TIME			
								11/16/18		12:48 PM		BTEx	
								11/16/18		1:05 PM		CI	
								11/16/18		1:20 PM		TPH EXT	
								11/16/18		1:38 PM			
								11/16/18		2:00 PM			
								11/16/18		2:10 PM			
								11/16/18		2:20 PM			
								11/16/18		2:30 PM			
								11/16/18		2:40 PM			

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Relinquished By: <i>W. Brunson</i>	Date: <i>11/16/18</i>	Time: <i>3:30p</i>	Received By: <i>W. Brunson</i>	Date: <i>11/16/18</i>	Time: <i>16:00</i>
Delivered By: (Circle One)	Sampler - UPS - Bus - Other: <i>1.504 #97</i>	Sample Condition	CHECKED BY: <i>W. Brunson</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #: <input type="checkbox"/> Yes <input type="checkbox"/> No
				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #: <input type="checkbox"/> Yes <input type="checkbox"/> No

REMARKS:

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



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

March 22, 2021

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: RIVERBEND FEDERAL B-11 CTB

Enclosed are the results of analyses for samples received by the laboratory on 03/19/21 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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:	03/19/2021	Sampling Date:	03/19/2021
Reported:	03/22/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 15 (H210713-01)

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	03/20/2021	ND	2.14	107	2.00	3.69		
Toluene*	<0.050	0.050	03/20/2021	ND	2.07	103	2.00	4.05		
Ethylbenzene*	<0.050	0.050	03/20/2021	ND	2.01	101	2.00	4.14		
Total Xylenes*	<0.150	0.150	03/20/2021	ND	5.95	99.1	6.00	4.13		
Total BTEX	<0.300	0.300	03/20/2021	ND						

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

Chloride, SM4500Cl-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	03/22/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2021	ND	195	97.4	200	6.79	
DRO >C10-C28*	<10.0	10.0	03/20/2021	ND	201	100	200	7.56	
EXT DRO >C28-C36	<10.0	10.0	03/20/2021	ND					

Surrogate: 1-Chlorooctane 91.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.8 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/19/2021	Sampling Date:	03/19/2021
Reported:	03/22/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 16 (H210713-02)

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	03/20/2021	ND	2.14	107	2.00	3.69		
Toluene*	<0.050	0.050	03/20/2021	ND	2.07	103	2.00	4.05		
Ethylbenzene*	<0.050	0.050	03/20/2021	ND	2.01	101	2.00	4.14		
Total Xylenes*	<0.150	0.150	03/20/2021	ND	5.95	99.1	6.00	4.13		
Total BTX	<0.300	0.300	03/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	03/22/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2021	ND	195	97.4	200	6.79	
DRO >C10-C28*	<10.0	10.0	03/20/2021	ND	201	100	200	7.56	
EXT DRO >C28-C36	<10.0	10.0	03/20/2021	ND					

Surrogate: 1-Chlorooctane 84.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.7 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/19/2021	Sampling Date:	03/19/2021
Reported:	03/22/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 25 (H210713-03)

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	03/20/2021	ND	2.14	107	2.00	3.69	
Toluene*	<0.050	0.050	03/20/2021	ND	2.07	103	2.00	4.05	
Ethylbenzene*	<0.050	0.050	03/20/2021	ND	2.01	101	2.00	4.14	
Total Xylenes*	<0.150	0.150	03/20/2021	ND	5.95	99.1	6.00	4.13	
Total BTX	<0.300	0.300	03/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	03/22/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2021	ND	195	97.4	200	6.79	
DRO >C10-C28*	<10.0	10.0	03/20/2021	ND	201	100	200	7.56	
EXT DRO >C28-C36	<10.0	10.0	03/20/2021	ND					

Surrogate: 1-Chlorooctane 94.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.3 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/19/2021	Sampling Date:	03/19/2021
Reported:	03/22/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 26 (H210713-04)

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	03/20/2021	ND	2.14	107	2.00	3.69	
Toluene*	<0.050	0.050	03/20/2021	ND	2.07	103	2.00	4.05	
Ethylbenzene*	<0.050	0.050	03/20/2021	ND	2.01	101	2.00	4.14	
Total Xylenes*	<0.150	0.150	03/20/2021	ND	5.95	99.1	6.00	4.13	
Total BTX	<0.300	0.300	03/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	03/22/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2021	ND	195	97.4	200	6.79	
DRO >C10-C28*	<10.0	10.0	03/20/2021	ND	201	100	200	7.56	
EXT DRO >C28-C36	<10.0	10.0	03/20/2021	ND					

Surrogate: 1-Chlorooctane 87.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 85.0 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/19/2021	Sampling Date:	03/19/2021
Reported:	03/22/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 37 (H210713-05)

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	03/20/2021	ND	2.14	107	2.00	3.69		
Toluene*	<0.050	0.050	03/20/2021	ND	2.07	103	2.00	4.05		
Ethylbenzene*	<0.050	0.050	03/20/2021	ND	2.01	101	2.00	4.14		
Total Xylenes*	<0.150	0.150	03/20/2021	ND	5.95	99.1	6.00	4.13		
Total BTEx	<0.300	0.300	03/20/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	03/22/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2021	ND	195	97.4	200	6.79	
DRO >C10-C28*	<10.0	10.0	03/20/2021	ND	201	100	200	7.56	
EXT DRO >C28-C36	<10.0	10.0	03/20/2021	ND					

Surrogate: 1-Chlorooctane 85.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.7 % 42.2-156

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/19/2021	Sampling Date:	03/19/2021
Reported:	03/22/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 38 (H210713-06)

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	03/20/2021	ND	2.14	107	2.00	3.69		
Toluene*	<0.050	0.050	03/20/2021	ND	2.07	103	2.00	4.05		
Ethylbenzene*	<0.050	0.050	03/20/2021	ND	2.01	101	2.00	4.14		
Total Xylenes*	<0.150	0.150	03/20/2021	ND	5.95	99.1	6.00	4.13		
Total BTEX	<0.300	0.300	03/20/2021	ND						

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

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	03/22/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2021	ND	195	97.4	200	6.79	
DRO >C10-C28*	<10.0	10.0	03/20/2021	ND	201	100	200	7.56	
EXT DRO >C28-C36	<10.0	10.0	03/20/2021	ND					

Surrogate: 1-Chlorooctane 86.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.3 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/19/2021	Sampling Date:	03/19/2021
Reported:	03/22/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: SW 2 (H210713-07)

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	03/20/2021	ND	2.14	107	2.00	3.69	
Toluene*	<0.050	0.050	03/20/2021	ND	2.07	103	2.00	4.05	
Ethylbenzene*	<0.050	0.050	03/20/2021	ND	2.01	101	2.00	4.14	
Total Xylenes*	<0.150	0.150	03/20/2021	ND	5.95	99.1	6.00	4.13	
Total BTX	<0.300	0.300	03/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	03/22/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2021	ND	195	97.4	200	6.79	
DRO >C10-C28*	<10.0	10.0	03/20/2021	ND	201	100	200	7.56	
EXT DRO >C28-C36	<10.0	10.0	03/20/2021	ND					

Surrogate: 1-Chlorooctane 89.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 85.5 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/19/2021	Sampling Date:	03/19/2021
Reported:	03/22/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: SW 3 (H210713-08)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/20/2021	ND	2.14	107	2.00	3.69	
Toluene*	<0.050	0.050	03/20/2021	ND	2.07	103	2.00	4.05	
Ethylbenzene*	<0.050	0.050	03/20/2021	ND	2.01	101	2.00	4.14	
Total Xylenes*	<0.150	0.150	03/20/2021	ND	5.95	99.1	6.00	4.13	
Total BTX	<0.300	0.300	03/20/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	03/22/2021	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/20/2021	ND	195	97.4	200	6.79	
DRO >C10-C28*	<10.0	10.0	03/20/2021	ND	201	100	200	7.56	
EXT DRO >C28-C36	<10.0	10.0	03/20/2021	ND					

Surrogate: 1-Chlorooctane 86.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 84.2 % 42.2-156

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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.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

BILL TO				ANALYSIS REQUEST					
Company Name: BBC International, Inc.				P.O. #:					
Project Manager: Cliff Brunson				Company: OXY					
Address: P.O. Box 805				Attn: WADE					
City: Hobbs				Address:					
Phone #: 575-397-6388				City:					
Fax #: 575-397-0397				State:					
Project #: Project Owner: Oxy				Phone #:					
Project Name: Riverbend Federal B-11 CTB (10-30-18)				Fax #:					
Project Location: Eddy County, NM									
Sampler Name: Simon Rendon									
Lab I.D.	Sample I.D.	MATRIX	PRESERV	SAMPLING	DATE	TIME	CL	BTEX	TPH EXT
H210713	BS15	GROUNDWATER	OTHER: ICE / COOL		3/19/21	9:30 AM	✓	✓	✓
1	BS16	WASTEWATER	OTHER: SLUDGE		3/19/21	9:42 AM	✓	✓	✓
2	BS25	SOIL	OTHER: ACID/BASE		3/19/21	9:54 AM	✓	✓	✓
3	BS26	GROUNDWATER	OTHER: OTHER		3/19/21	10:12 AM	✓	✓	✓
4	BS37	GROUNDWATER	OTHER: OTHER		3/19/21	10:23 AM	✓	✓	✓
5	BS38	GROUNDWATER	OTHER: OTHER		3/19/21	10:35 AM	✓	✓	✓
6	SW2	GROUNDWATER	OTHER: OTHER		3/19/21	10:45 AM	✓	✓	✓
7	SW3	GROUNDWATER	OTHER: OTHER		3/19/21	11:05 AM	✓	✓	✓
8									

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Relinquished By:	Received By:	Date: 3-19-21	Time: 1630	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:	Add'l Fax #:
Relinquished By:	Received By:	Date:	Time:	REMARKS: RUST			
Delivered By: (Circle One)	Sample Condition	Checked By: (Initials)					
Sampler - UPS - Bus - Other: -3.9c #113	Cool <input type="checkbox"/> Intact <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>					

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



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

March 18, 2021

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: RIVERBEND FEDERAL B-11 CTB

Enclosed are the results of analyses for samples received by the laboratory on 03/15/21 15:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/15/2021	Sampling Date:	03/11/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 1 (H210651-01)

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	03/16/2021	ND	2.05	102	2.00	3.89		
Toluene*	<0.050	0.050	03/16/2021	ND	1.98	99.1	2.00	4.05		
Ethylbenzene*	<0.050	0.050	03/16/2021	ND	1.96	97.8	2.00	4.26		
Total Xylenes*	<0.150	0.150	03/16/2021	ND	5.81	96.9	6.00	3.81		
Total BTEX	<0.300	0.300	03/16/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-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	03/17/2021	ND	416	104	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	03/17/2021	ND	212	106	200	7.43	
DRO >C10-C28*	<10.0	10.0	03/17/2021	ND	223	111	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	03/17/2021	ND					

Surrogate: 1-Chlorooctane 74.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 69.9 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/15/2021	Sampling Date:	03/11/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 2 (H210651-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2021	ND	2.22	111	2.00	0.484	
Toluene*	<0.050	0.050	03/16/2021	ND	2.12	106	2.00	0.581	
Ethylbenzene*	<0.050	0.050	03/16/2021	ND	2.07	103	2.00	0.990	
Total Xylenes*	<0.150	0.150	03/16/2021	ND	6.11	102	6.00	1.17	
Total BTEx	<0.300	0.300	03/16/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 73.3-129

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	03/17/2021	ND	416	104	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	03/17/2021	ND	212	106	200	7.43	
DRO >C10-C28*	<10.0	10.0	03/17/2021	ND	223	111	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	03/17/2021	ND					

Surrogate: 1-Chlorooctane 74.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 68.5 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/15/2021	Sampling Date:	03/11/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 3 (H210651-03)

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	03/16/2021	ND	2.22	111	2.00	0.484	
Toluene*	<0.050	0.050	03/16/2021	ND	2.12	106	2.00	0.581	
Ethylbenzene*	<0.050	0.050	03/16/2021	ND	2.07	103	2.00	0.990	
Total Xylenes*	<0.150	0.150	03/16/2021	ND	6.11	102	6.00	1.17	
Total BTEx	<0.300	0.300	03/16/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	03/17/2021	ND	416	104	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	03/17/2021	ND	212	106	200	7.43	
DRO >C10-C28*	<10.0	10.0	03/17/2021	ND	223	111	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	03/17/2021	ND					

Surrogate: 1-Chlorooctane 79.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 74.2 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/15/2021	Sampling Date:	03/11/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 4 (H210651-04)

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	03/16/2021	ND	2.22	111	2.00	0.484	
Toluene*	<0.050	0.050	03/16/2021	ND	2.12	106	2.00	0.581	
Ethylbenzene*	<0.050	0.050	03/16/2021	ND	2.07	103	2.00	0.990	
Total Xylenes*	<0.150	0.150	03/16/2021	ND	6.11	102	6.00	1.17	
Total BTEx	<0.300	0.300	03/16/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	03/17/2021	ND	416	104	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	03/17/2021	ND	212	106	200	7.43	
DRO >C10-C28*	<10.0	10.0	03/17/2021	ND	223	111	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	03/17/2021	ND					

Surrogate: 1-Chlorooctane 80.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 74.8 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/15/2021	Sampling Date:	03/11/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 5 (H210651-05)

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	03/16/2021	ND	2.22	111	2.00	0.484		
Toluene*	<0.050	0.050	03/16/2021	ND	2.12	106	2.00	0.581		
Ethylbenzene*	<0.050	0.050	03/16/2021	ND	2.07	103	2.00	0.990		
Total Xylenes*	<0.150	0.150	03/16/2021	ND	6.11	102	6.00	1.17		
Total BTX	<0.300	0.300	03/16/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	03/17/2021	ND	416	104	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	03/17/2021	ND	212	106	200	7.43	
DRO >C10-C28*	<10.0	10.0	03/17/2021	ND	223	111	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	03/17/2021	ND					

Surrogate: 1-Chlorooctane 72.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 66.6 % 42.2-156

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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:	03/15/2021	Sampling Date:	03/11/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 6 (H210651-06)

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	03/17/2021	ND	2.22	111	2.00	0.484	
Toluene*	<0.050	0.050	03/17/2021	ND	2.12	106	2.00	0.581	
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.07	103	2.00	0.990	
Total Xylenes*	<0.150	0.150	03/17/2021	ND	6.11	102	6.00	1.17	
Total BTX	<0.300	0.300	03/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

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	03/17/2021	ND	416	104	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	03/17/2021	ND	212	106	200	7.43	
DRO >C10-C28*	<10.0	10.0	03/17/2021	ND	223	111	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	03/17/2021	ND					

Surrogate: 1-Chlorooctane 76.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 71.9 % 42.2-156

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Analytical Results For:

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

Received:	03/15/2021	Sampling Date:	03/11/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 7 (H210651-07)

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	03/17/2021	ND	2.22	111	2.00	0.484		
Toluene*	<0.050	0.050	03/17/2021	ND	2.12	106	2.00	0.581		
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.07	103	2.00	0.990		
Total Xylenes*	<0.150	0.150	03/17/2021	ND	6.11	102	6.00	1.17		
Total BTX	<0.300	0.300	03/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

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	03/17/2021	ND	416	104	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	03/17/2021	ND	212	106	200	7.43	
DRO >C10-C28*	28.4	10.0	03/17/2021	ND	223	111	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	03/17/2021	ND					

Surrogate: 1-Chlorooctane 78.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 74.7 % 42.2-156

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Analytical Results For:

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

Received:	03/15/2021	Sampling Date:	03/11/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 8 (H210651-08)

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	03/17/2021	ND	2.22	111	2.00	0.484		
Toluene*	<0.050	0.050	03/17/2021	ND	2.12	106	2.00	0.581		
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.07	103	2.00	0.990		
Total Xylenes*	<0.150	0.150	03/17/2021	ND	6.11	102	6.00	1.17		
Total BTEX	<0.300	0.300	03/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-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	03/17/2021	ND	416	104	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	03/17/2021	ND	212	106	200	7.43		
DRO >C10-C28*	<10.0	10.0	03/17/2021	ND	223	111	200	5.34		
EXT DRO >C28-C36	<10.0	10.0	03/17/2021	ND						

Surrogate: 1-Chlorooctane 76.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 72.2 % 42.2-156

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Analytical Results For:

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

Received:	03/15/2021	Sampling Date:	03/11/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 9 (H210651-09)

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	03/17/2021	ND	2.22	111	2.00	0.484		
Toluene*	<0.050	0.050	03/17/2021	ND	2.12	106	2.00	0.581		
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.07	103	2.00	0.990		
Total Xylenes*	<0.150	0.150	03/17/2021	ND	6.11	102	6.00	1.17		
Total BTX	<0.300	0.300	03/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

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	03/17/2021	ND	416	104	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	03/17/2021	ND	212	106	200	7.43	
DRO >C10-C28*	<10.0	10.0	03/17/2021	ND	223	111	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	03/17/2021	ND					

Surrogate: 1-Chlorooctane 77.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 74.3 % 42.2-156

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Analytical Results For:

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

Received:	03/15/2021	Sampling Date:	03/11/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 10 (H210651-10)

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	03/17/2021	ND	2.22	111	2.00	0.484		
Toluene*	<0.050	0.050	03/17/2021	ND	2.12	106	2.00	0.581		
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.07	103	2.00	0.990		
Total Xylenes*	<0.150	0.150	03/17/2021	ND	6.11	102	6.00	1.17		
Total BTEx	<0.300	0.300	03/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

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	03/17/2021	ND	416	104	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	03/17/2021	ND	212	106	200	7.43	
DRO >C10-C28*	<10.0	10.0	03/17/2021	ND	223	111	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	03/17/2021	ND					

Surrogate: 1-Chlorooctane 79.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 76.2 % 42.2-156

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Analytical Results For:

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

Received:	03/15/2021	Sampling Date:	03/11/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 11 (H210651-11)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2021	ND	2.22	111	2.00	0.484	
Toluene*	<0.050	0.050	03/17/2021	ND	2.12	106	2.00	0.581	
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.07	103	2.00	0.990	
Total Xylenes*	<0.150	0.150	03/17/2021	ND	6.11	102	6.00	1.17	
Total BTEx	<0.300	0.300	03/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

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	03/17/2021	ND	416	104	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	03/17/2021	ND	212	106	200	7.43	
DRO >C10-C28*	<10.0	10.0	03/17/2021	ND	223	111	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	03/17/2021	ND					

Surrogate: 1-Chlorooctane 75.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 74.0 % 42.2-156

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Analytical Results For:

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

Received:	03/15/2021	Sampling Date:	03/11/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 12 (H210651-12)

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	03/17/2021	ND	2.22	111	2.00	0.484		
Toluene*	<0.050	0.050	03/17/2021	ND	2.12	106	2.00	0.581		
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.07	103	2.00	0.990		
Total Xylenes*	<0.150	0.150	03/17/2021	ND	6.11	102	6.00	1.17		
Total BTEx	<0.300	0.300	03/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	03/17/2021	ND	416	104	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	03/17/2021	ND	212	106	200	7.43	
DRO >C10-C28*	<10.0	10.0	03/17/2021	ND	223	111	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	03/17/2021	ND					

Surrogate: 1-Chlorooctane 79.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 74.9 % 42.2-156

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Analytical Results For:

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

Received:	03/15/2021	Sampling Date:	03/11/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 13 (H210651-13)

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	03/17/2021	ND	2.22	111	2.00	0.484		
Toluene*	<0.050	0.050	03/17/2021	ND	2.12	106	2.00	0.581		
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.07	103	2.00	0.990		
Total Xylenes*	<0.150	0.150	03/17/2021	ND	6.11	102	6.00	1.17		
Total BTX	<0.300	0.300	03/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

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	03/17/2021	ND	416	104	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	03/17/2021	ND	212	106	200	7.43	
DRO >C10-C28*	<10.0	10.0	03/17/2021	ND	223	111	200	5.34	
EXT DRO >C28-C36	<10.0	10.0	03/17/2021	ND					

Surrogate: 1-Chlorooctane 75.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 71.0 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/15/2021	Sampling Date:	03/11/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 14 (H210651-14)

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	03/17/2021	ND	2.22	111	2.00	0.484		
Toluene*	<0.050	0.050	03/17/2021	ND	2.12	106	2.00	0.581		
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.07	103	2.00	0.990		
Total Xylenes*	<0.150	0.150	03/17/2021	ND	6.11	102	6.00	1.17		
Total BTEx	<0.300	0.300	03/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	03/17/2021	ND	416	104	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	03/17/2021	ND	212	106	200	7.43	
DRO >C10-C28*	62.3	10.0	03/17/2021	ND	223	111	200	5.34	
EXT DRO >C28-C36	14.0	10.0	03/17/2021	ND					

Surrogate: 1-Chlorooctane 72.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 71.2 % 42.2-156

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Analytical Results For:

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

Received:	03/15/2021	Sampling Date:	03/11/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 15 (H210651-15)

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	03/17/2021	ND	2.22	111	2.00	0.484	
Toluene*	<0.050	0.050	03/17/2021	ND	2.12	106	2.00	0.581	
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.07	103	2.00	0.990	
Total Xylenes*	<0.150	0.150	03/17/2021	ND	6.11	102	6.00	1.17	
Total BTX	<0.300	0.300	03/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-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	03/17/2021	ND	416	104	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	03/17/2021	ND	212	106	200	7.43	
DRO >C10-C28*	106	10.0	03/17/2021	ND	223	111	200	5.34	
EXT DRO >C28-C36	29.9	10.0	03/17/2021	ND					

Surrogate: 1-Chlorooctane 80.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.7 % 42.2-156

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Analytical Results For:

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

Received:	03/15/2021	Sampling Date:	03/11/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 16 (H210651-16)

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	03/17/2021	ND	2.22	111	2.00	0.484		
Toluene*	<0.050	0.050	03/17/2021	ND	2.12	106	2.00	0.581		
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.07	103	2.00	0.990		
Total Xylenes*	<0.150	0.150	03/17/2021	ND	6.11	102	6.00	1.17		
Total BTEx	<0.300	0.300	03/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500Cl-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	03/17/2021	ND	416	104	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	03/17/2021	ND	212	106	200	7.43	
DRO >C10-C28*	193	10.0	03/17/2021	ND	223	111	200	5.34	
EXT DRO >C28-C36	65.3	10.0	03/17/2021	ND					

Surrogate: 1-Chlorooctane 76.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.8 % 42.2-156

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Analytical Results For:

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

Received:	03/15/2021	Sampling Date:	03/11/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 17 (H210651-17)

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	03/17/2021	ND	2.22	111	2.00	0.484		
Toluene*	<0.050	0.050	03/17/2021	ND	2.12	106	2.00	0.581		
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.07	103	2.00	0.990		
Total Xylenes*	<0.150	0.150	03/17/2021	ND	6.11	102	6.00	1.17		
Total BTX	<0.300	0.300	03/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	03/17/2021	ND	416	104	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	03/16/2021	ND	208	104	200	7.84	
DRO >C10-C28*	<10.0	10.0	03/16/2021	ND	219	110	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	03/16/2021	ND					

Surrogate: 1-Chlorooctane 78.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 72.3 % 42.2-156

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Analytical Results For:

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

Received:	03/15/2021	Sampling Date:	03/11/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 18 (H210651-18)

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	03/17/2021	ND	2.22	111	2.00	0.484		
Toluene*	<0.050	0.050	03/17/2021	ND	2.12	106	2.00	0.581		
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.07	103	2.00	0.990		
Total Xylenes*	<0.150	0.150	03/17/2021	ND	6.11	102	6.00	1.17		
Total BTX	<0.300	0.300	03/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

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	03/17/2021	ND	416	104	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	03/16/2021	ND	208	104	200	7.84	
DRO >C10-C28*	12.8	10.0	03/16/2021	ND	219	110	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	03/16/2021	ND					

Surrogate: 1-Chlorooctane 73.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 69.7 % 42.2-156

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Analytical Results For:

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

Received:	03/15/2021	Sampling Date:	03/11/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 19 (H210651-19)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/17/2021	ND	2.22	111	2.00	0.484		
Toluene*	<0.050	0.050	03/17/2021	ND	2.12	106	2.00	0.581		
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.07	103	2.00	0.990		
Total Xylenes*	<0.150	0.150	03/17/2021	ND	6.11	102	6.00	1.17		
Total BTEX	<0.300	0.300	03/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

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	03/17/2021	ND	416	104	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	03/16/2021	ND	208	104	200	7.84	
DRO >C10-C28*	<10.0	10.0	03/16/2021	ND	219	110	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	03/16/2021	ND					

Surrogate: 1-Chlorooctane 78.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 72.3 % 42.2-156

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Analytical Results For:

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

Received:	03/15/2021	Sampling Date:	03/11/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 20 (H210651-20)

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	03/17/2021	ND	2.22	111	2.00	0.484	
Toluene*	<0.050	0.050	03/17/2021	ND	2.12	106	2.00	0.581	
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.07	103	2.00	0.990	
Total Xylenes*	<0.150	0.150	03/17/2021	ND	6.11	102	6.00	1.17	
Total BTX	<0.300	0.300	03/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

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	03/17/2021	ND	416	104	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	03/16/2021	ND	208	104	200	7.84	
DRO >C10-C28*	<10.0	10.0	03/16/2021	ND	219	110	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	03/16/2021	ND					

Surrogate: 1-Chlorooctane 68.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 62.0 % 42.2-156

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Analytical Results For:

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

Received:	03/15/2021	Sampling Date:	03/11/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 21 (H210651-21)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/17/2021	ND	2.22	111	2.00	0.484		
Toluene*	<0.050	0.050	03/17/2021	ND	2.12	106	2.00	0.581		
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.07	103	2.00	0.990		
Total Xylenes*	<0.150	0.150	03/17/2021	ND	6.11	102	6.00	1.17		
Total BTX	<0.300	0.300	03/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

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	03/17/2021	ND	416	104	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	03/16/2021	ND	208	104	200	7.84	
DRO >C10-C28*	<10.0	10.0	03/16/2021	ND	219	110	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	03/16/2021	ND					

Surrogate: 1-Chlorooctane 79.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 71.9 % 42.2-156

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Analytical Results For:

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 Fax To: (575) 397-0397

Received:	03/15/2021	Sampling Date:	03/11/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 22 (H210651-22)

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	03/17/2021	ND	2.21	111	2.00	1.31	
Toluene*	<0.050	0.050	03/17/2021	ND	2.12	106	2.00	1.38	
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.06	103	2.00	1.41	
Total Xylenes*	<0.150	0.150	03/17/2021	ND	6.08	101	6.00	1.64	
Total BTEX	<0.300	0.300	03/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

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	03/17/2021	ND	416	104	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	03/16/2021	ND	208	104	200	7.84	
DRO >C10-C28*	<10.0	10.0	03/16/2021	ND	219	110	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	03/16/2021	ND					

Surrogate: 1-Chlorooctane 76.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 68.1 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/15/2021	Sampling Date:	03/11/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 23 (H210651-23)

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	03/17/2021	ND	2.21	111	2.00	1.31		
Toluene*	<0.050	0.050	03/17/2021	ND	2.12	106	2.00	1.38		
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.06	103	2.00	1.41		
Total Xylenes*	<0.150	0.150	03/17/2021	ND	6.08	101	6.00	1.64		
Total BTX	<0.300	0.300	03/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	03/17/2021	ND	416	104	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	03/16/2021	ND	208	104	200	7.84	
DRO >C10-C28*	<10.0	10.0	03/16/2021	ND	219	110	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	03/16/2021	ND					

Surrogate: 1-Chlorooctane 76.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 70.9 % 42.2-156

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Analytical Results For:

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

Received:	03/15/2021	Sampling Date:	03/11/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 24 (H210651-24)

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	03/17/2021	ND	2.21	111	2.00	1.31		
Toluene*	<0.050	0.050	03/17/2021	ND	2.12	106	2.00	1.38		
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.06	103	2.00	1.41		
Total Xylenes*	<0.150	0.150	03/17/2021	ND	6.08	101	6.00	1.64		
Total BTEX	<0.300	0.300	03/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

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	03/17/2021	ND	416	104	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	03/16/2021	ND	208	104	200	7.84	
DRO >C10-C28*	16.7	10.0	03/16/2021	ND	219	110	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	03/16/2021	ND					

Surrogate: 1-Chlorooctane 75.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 69.7 % 42.2-156

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Analytical Results For:

BBC International, Inc.
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 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	03/15/2021	Sampling Date:	03/11/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 25 (H210651-25)

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	03/17/2021	ND	2.21	111	2.00	1.31	
Toluene*	<0.050	0.050	03/17/2021	ND	2.12	106	2.00	1.38	
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.06	103	2.00	1.41	
Total Xylenes*	<0.150	0.150	03/17/2021	ND	6.08	101	6.00	1.64	
Total BTEX	<0.300	0.300	03/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	03/17/2021	ND	416	104	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	03/16/2021	ND	208	104	200	7.84	
DRO >C10-C28*	173	10.0	03/16/2021	ND	219	110	200	5.56	
EXT DRO >C28-C36	49.8	10.0	03/16/2021	ND					

Surrogate: 1-Chlorooctane 76.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 80.1 % 42.2-156

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Analytical Results For:

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 Fax To: (575) 397-0397

Received:	03/15/2021	Sampling Date:	03/11/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 26 (H210651-26)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2021	ND	2.21	111	2.00	1.31	
Toluene*	<0.050	0.050	03/17/2021	ND	2.12	106	2.00	1.38	
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.06	103	2.00	1.41	
Total Xylenes*	<0.150	0.150	03/17/2021	ND	6.08	101	6.00	1.64	
Total BTX	<0.300	0.300	03/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	03/17/2021	ND	416	104	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	03/16/2021	ND	208	104	200	7.84	
DRO >C10-C28*	220	10.0	03/16/2021	ND	219	110	200	5.56	
EXT DRO >C28-C36	57.7	10.0	03/16/2021	ND					

Surrogate: 1-Chlorooctane 77.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 77.8 % 42.2-156

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Analytical Results For:

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Received:	03/15/2021	Sampling Date:	03/12/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 27 (H210651-27)

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	03/17/2021	ND	2.21	111	2.00	1.31		
Toluene*	<0.050	0.050	03/17/2021	ND	2.12	106	2.00	1.38		
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.06	103	2.00	1.41		
Total Xylenes*	<0.150	0.150	03/17/2021	ND	6.08	101	6.00	1.64		
Total BTEx	<0.300	0.300	03/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

Chloride, SM4500Cl-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	03/17/2021	ND	416	104	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	03/16/2021	ND	208	104	200	7.84	
DRO >C10-C28*	64.6	10.0	03/16/2021	ND	219	110	200	5.56	
EXT DRO >C28-C36	16.1	10.0	03/16/2021	ND					

Surrogate: 1-Chlorooctane 84.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 80.0 % 42.2-156

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Analytical Results For:

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

Received:	03/15/2021	Sampling Date:	03/12/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 28 (H210651-28)

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	03/17/2021	ND	2.21	111	2.00	1.31	
Toluene*	<0.050	0.050	03/17/2021	ND	2.12	106	2.00	1.38	
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.06	103	2.00	1.41	
Total Xylenes*	<0.150	0.150	03/17/2021	ND	6.08	101	6.00	1.64	
Total BTX	<0.300	0.300	03/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	03/17/2021	ND	416	104	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	03/16/2021	ND	208	104	200	7.84	
DRO >C10-C28*	79.3	10.0	03/16/2021	ND	219	110	200	5.56	
EXT DRO >C28-C36	17.0	10.0	03/16/2021	ND					

Surrogate: 1-Chlorooctane 80.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.6 % 42.2-156

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Analytical Results For:

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 Fax To: (575) 397-0397

Received:	03/15/2021	Sampling Date:	03/12/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 29 (H210651-29)

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	03/17/2021	ND	2.21	111	2.00	1.31	
Toluene*	<0.050	0.050	03/17/2021	ND	2.12	106	2.00	1.38	
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.06	103	2.00	1.41	
Total Xylenes*	<0.150	0.150	03/17/2021	ND	6.08	101	6.00	1.64	
Total BTX	<0.300	0.300	03/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	03/17/2021	ND	416	104	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	03/16/2021	ND	208	104	200	7.84	
DRO >C10-C28*	<10.0	10.0	03/16/2021	ND	219	110	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	03/16/2021	ND					

Surrogate: 1-Chlorooctane 82.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 77.5 % 42.2-156

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Analytical Results For:

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 Fax To: (575) 397-0397

Received:	03/15/2021	Sampling Date:	03/12/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 30 (H210651-30)

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	03/17/2021	ND	2.21	111	2.00	1.31	
Toluene*	<0.050	0.050	03/17/2021	ND	2.12	106	2.00	1.38	
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.06	103	2.00	1.41	
Total Xylenes*	<0.150	0.150	03/17/2021	ND	6.08	101	6.00	1.64	
Total BTEX	<0.300	0.300	03/17/2021	ND					

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

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	03/17/2021	ND	416	104	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	03/16/2021	ND	208	104	200	7.84	
DRO >C10-C28*	<10.0	10.0	03/16/2021	ND	219	110	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	03/16/2021	ND					

Surrogate: 1-Chlorooctane 76.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 71.1 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/15/2021	Sampling Date:	03/12/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 31 (H210651-31)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2021	ND	2.21	111	2.00	1.31	
Toluene*	<0.050	0.050	03/17/2021	ND	2.12	106	2.00	1.38	
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.06	103	2.00	1.41	
Total Xylenes*	<0.150	0.150	03/17/2021	ND	6.08	101	6.00	1.64	
Total BTX	<0.300	0.300	03/17/2021	ND					

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

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	03/17/2021	ND	416	104	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	03/16/2021	ND	208	104	200	7.84	
DRO >C10-C28*	<10.0	10.0	03/16/2021	ND	219	110	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	03/16/2021	ND					

Surrogate: 1-Chlorooctane 79.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 73.7 % 42.2-156

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Analytical Results For:

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

Received:	03/15/2021	Sampling Date:	03/12/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 32 (H210651-32)

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	03/17/2021	ND	2.21	111	2.00	1.31		
Toluene*	<0.050	0.050	03/17/2021	ND	2.12	106	2.00	1.38		
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.06	103	2.00	1.41		
Total Xylenes*	<0.150	0.150	03/17/2021	ND	6.08	101	6.00	1.64		
Total BTX	<0.300	0.300	03/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

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	03/17/2021	ND	416	104	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	03/16/2021	ND	208	104	200	7.84	
DRO >C10-C28*	<10.0	10.0	03/16/2021	ND	219	110	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	03/16/2021	ND					

Surrogate: 1-Chlorooctane 81.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 75.0 % 42.2-156

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Analytical Results For:

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

Received:	03/15/2021	Sampling Date:	03/12/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 33 (H210651-33)

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	03/17/2021	ND	2.21	111	2.00	1.31	
Toluene*	<0.050	0.050	03/17/2021	ND	2.12	106	2.00	1.38	
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.06	103	2.00	1.41	
Total Xylenes*	<0.150	0.150	03/17/2021	ND	6.08	101	6.00	1.64	
Total BTEx	<0.300	0.300	03/17/2021	ND					

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

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	03/17/2021	ND	416	104	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	03/16/2021	ND	208	104	200	7.84	
DRO >C10-C28*	<10.0	10.0	03/16/2021	ND	219	110	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	03/16/2021	ND					

Surrogate: 1-Chlorooctane 75.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 69.1 % 42.2-156

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Analytical Results For:

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

Received:	03/15/2021	Sampling Date:	03/12/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 34 (H210651-34)

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	03/17/2021	ND	2.21	111	2.00	1.31	
Toluene*	<0.050	0.050	03/17/2021	ND	2.12	106	2.00	1.38	
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.06	103	2.00	1.41	
Total Xylenes*	<0.150	0.150	03/17/2021	ND	6.08	101	6.00	1.64	
Total BTEx	<0.300	0.300	03/17/2021	ND					

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

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	03/17/2021	ND	416	104	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	03/16/2021	ND	208	104	200	7.84	
DRO >C10-C28*	20.2	10.0	03/16/2021	ND	219	110	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	03/16/2021	ND					

Surrogate: 1-Chlorooctane 74.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 70.4 % 42.2-156

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Analytical Results For:

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

Received:	03/15/2021	Sampling Date:	03/12/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 35 (H210651-35)

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	03/17/2021	ND	2.21	111	2.00	1.31		
Toluene*	<0.050	0.050	03/17/2021	ND	2.12	106	2.00	1.38		
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.06	103	2.00	1.41		
Total Xylenes*	<0.150	0.150	03/17/2021	ND	6.08	101	6.00	1.64		
Total BTX	<0.300	0.300	03/17/2021	ND						

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

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	03/17/2021	ND	416	104	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	03/16/2021	ND	208	104	200	7.84	
DRO >C10-C28*	34.4	10.0	03/16/2021	ND	219	110	200	5.56	
EXT DRO >C28-C36	<10.0	10.0	03/16/2021	ND					

Surrogate: 1-Chlorooctane 76.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 75.5 % 42.2-156

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Analytical Results For:

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

Received:	03/15/2021	Sampling Date:	03/12/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 36 (H210651-36)

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	03/17/2021	ND	2.21	111	2.00	1.31	
Toluene*	<0.050	0.050	03/17/2021	ND	2.12	106	2.00	1.38	
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.06	103	2.00	1.41	
Total Xylenes*	<0.150	0.150	03/17/2021	ND	6.08	101	6.00	1.64	
Total BTEx	<0.300	0.300	03/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	03/17/2021	ND	416	104	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	03/16/2021	ND	208	104	200	7.84	
DRO >C10-C28*	60.9	10.0	03/16/2021	ND	219	110	200	5.56	
EXT DRO >C28-C36	17.0	10.0	03/16/2021	ND					

Surrogate: 1-Chlorooctane 78.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 74.3 % 42.2-156

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Analytical Results For:

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

Received:	03/15/2021	Sampling Date:	03/12/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 37 (H210651-37)

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	03/17/2021	ND	2.21	111	2.00	1.31	
Toluene*	<0.050	0.050	03/17/2021	ND	2.12	106	2.00	1.38	
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.06	103	2.00	1.41	
Total Xylenes*	<0.150	0.150	03/17/2021	ND	6.08	101	6.00	1.64	
Total BTX	<0.300	0.300	03/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	03/17/2021	ND	416	104	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	03/16/2021	ND	214	107	200	8.08	
DRO >C10-C28*	111	10.0	03/16/2021	ND	213	107	200	5.14	
EXT DRO >C28-C36	24.9	10.0	03/16/2021	ND					

Surrogate: 1-Chlorooctane 73.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.5 % 42.2-156

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Analytical Results For:

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

Received:	03/15/2021	Sampling Date:	03/12/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 38 (H210651-38)

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	03/17/2021	ND	2.21	111	2.00	1.31	
Toluene*	<0.050	0.050	03/17/2021	ND	2.12	106	2.00	1.38	
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.06	103	2.00	1.41	
Total Xylenes*	<0.150	0.150	03/17/2021	ND	6.08	101	6.00	1.64	
Total BTX	<0.300	0.300	03/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	03/17/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2021	ND	214	107	200	8.08	
DRO >C10-C28*	134	10.0	03/16/2021	ND	213	107	200	5.14	
EXT DRO >C28-C36	31.3	10.0	03/16/2021	ND					

Surrogate: 1-Chlorooctane 77.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.9 % 42.2-156

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Analytical Results For:

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Received:	03/15/2021	Sampling Date:	03/12/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 39 (H210651-39)

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	03/17/2021	ND	2.21	111	2.00	1.31	
Toluene*	<0.050	0.050	03/17/2021	ND	2.12	106	2.00	1.38	
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.06	103	2.00	1.41	
Total Xylenes*	<0.150	0.150	03/17/2021	ND	6.08	101	6.00	1.64	
Total BTX	<0.300	0.300	03/17/2021	ND					

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

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	03/17/2021	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2021	ND	214	107	200	8.08	
DRO >C10-C28*	71.7	10.0	03/16/2021	ND	213	107	200	5.14	
EXT DRO >C28-C36	10.4	10.0	03/16/2021	ND					

Surrogate: 1-Chlorooctane 81.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.4 % 42.2-156

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Analytical Results For:

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

Received:	03/15/2021	Sampling Date:	03/12/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 40 (H210651-40)

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	03/17/2021	ND	2.21	111	2.00	1.31		
Toluene*	<0.050	0.050	03/17/2021	ND	2.12	106	2.00	1.38		
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.06	103	2.00	1.41		
Total Xylenes*	<0.150	0.150	03/17/2021	ND	6.08	101	6.00	1.64		
Total BTEx	<0.300	0.300	03/17/2021	ND						

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

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	03/17/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/16/2021	ND	214	107	200	8.08	
DRO >C10-C28*	44.5	10.0	03/16/2021	ND	213	107	200	5.14	
EXT DRO >C28-C36	<10.0	10.0	03/16/2021	ND					

Surrogate: 1-Chlorooctane 79.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 82.7 % 42.2-156

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Analytical Results For:

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

Received:	03/15/2021	Sampling Date:	03/12/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: BS 41 (H210651-41)

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	03/17/2021	ND	2.21	111	2.00	1.31		
Toluene*	<0.050	0.050	03/17/2021	ND	2.12	106	2.00	1.38		
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.06	103	2.00	1.41		
Total Xylenes*	<0.150	0.150	03/17/2021	ND	6.08	101	6.00	1.64		
Total BTX	<0.300	0.300	03/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	03/17/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2021	ND	214	107	200	8.08	
DRO >C10-C28*	61.2	10.0	03/17/2021	ND	213	107	200	5.14	
EXT DRO >C28-C36	11.3	10.0	03/17/2021	ND					

Surrogate: 1-Chlorooctane 78.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.1 % 42.2-156

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Analytical Results For:

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

Received:	03/15/2021	Sampling Date:	03/12/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: SW 1 (H210651-42)

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	03/17/2021	ND	2.13	107	2.00	1.66	
Toluene*	<0.050	0.050	03/17/2021	ND	2.05	103	2.00	1.82	
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.02	101	2.00	1.45	
Total Xylenes*	<0.150	0.150	03/17/2021	ND	5.97	99.6	6.00	1.47	
Total BTEX	<0.300	0.300	03/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	03/17/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2021	ND	214	107	200	8.08	
DRO >C10-C28*	51.1	10.0	03/17/2021	ND	213	107	200	5.14	
EXT DRO >C28-C36	<10.0	10.0	03/17/2021	ND					

Surrogate: 1-Chlorooctane 70.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 72.0 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/15/2021	Sampling Date:	03/12/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: SW 2 (H210651-43)

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	03/17/2021	ND	2.13	107	2.00	1.66		
Toluene*	<0.050	0.050	03/17/2021	ND	2.05	103	2.00	1.82		
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.02	101	2.00	1.45		
Total Xylenes*	<0.150	0.150	03/17/2021	ND	5.97	99.6	6.00	1.47		
Total BTEx	<0.300	0.300	03/17/2021	ND						

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

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	03/17/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2021	ND	214	107	200	8.08	
DRO >C10-C28*	101	10.0	03/17/2021	ND	213	107	200	5.14	
EXT DRO >C28-C36	17.9	10.0	03/17/2021	ND					

Surrogate: 1-Chlorooctane 74.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.6 % 42.2-156

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Analytical Results For:

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

Received:	03/15/2021	Sampling Date:	03/12/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: SW 3 (H210651-44)

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	03/17/2021	ND	2.13	107	2.00	1.66		
Toluene*	<0.050	0.050	03/17/2021	ND	2.05	103	2.00	1.82		
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.02	101	2.00	1.45		
Total Xylenes*	<0.150	0.150	03/17/2021	ND	5.97	99.6	6.00	1.47		
Total BTX	<0.300	0.300	03/17/2021	ND						

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

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	03/17/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2021	ND	214	107	200	8.08	
DRO >C10-C28*	109	10.0	03/17/2021	ND	213	107	200	5.14	
EXT DRO >C28-C36	22.3	10.0	03/17/2021	ND					

Surrogate: 1-Chlorooctane 76.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.8 % 42.2-156

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Analytical Results For:

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

Received:	03/15/2021	Sampling Date:	03/12/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: SW 4 (H210651-45)

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	03/17/2021	ND	2.13	107	2.00	1.66		
Toluene*	<0.050	0.050	03/17/2021	ND	2.05	103	2.00	1.82		
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.02	101	2.00	1.45		
Total Xylenes*	<0.150	0.150	03/17/2021	ND	5.97	99.6	6.00	1.47		
Total BTEX	<0.300	0.300	03/17/2021	ND						

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

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	03/17/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2021	ND	214	107	200	8.08	
DRO >C10-C28*	<10.0	10.0	03/17/2021	ND	213	107	200	5.14	
EXT DRO >C28-C36	<10.0	10.0	03/17/2021	ND					

Surrogate: 1-Chlorooctane 75.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 76.9 % 42.2-156

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Analytical Results For:

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

Received:	03/15/2021	Sampling Date:	03/12/2021
Reported:	03/18/2021	Sampling Type:	Soil
Project Name:	RIVERBEND FEDERAL B-11 CTB	Sampling Condition:	Cool & Intact
Project Number:	(10/30/18)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALAGA, NM		

Sample ID: SW 5 (H210651-46)

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	03/17/2021	ND	2.13	107	2.00	1.66		
Toluene*	<0.050	0.050	03/17/2021	ND	2.05	103	2.00	1.82		
Ethylbenzene*	<0.050	0.050	03/17/2021	ND	2.02	101	2.00	1.45		
Total Xylenes*	<0.150	0.150	03/17/2021	ND	5.97	99.6	6.00	1.47		
Total BTX	<0.300	0.300	03/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.3-129

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	03/17/2021	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/17/2021	ND	214	107	200	8.08	
DRO >C10-C28*	<10.0	10.0	03/17/2021	ND	213	107	200	5.14	
EXT DRO >C28-C36	<10.0	10.0	03/17/2021	ND					

Surrogate: 1-Chlorooctane 79.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.1 % 42.2-156

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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.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

 $\langle 1 \text{ of } 5 \rangle$ Page 49 of 53

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101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<2 of 3>

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

State: NM Zip: 88241
Fax #: 575-397-0397

Project #:

Project Owner: Oxy

Project Name: Sierrabond Federal B-11 CTB (10-30-18)Project Location: Edley County, NM

Sampler Name: Simon Rendon

FOR LAB USE ONLY

BILL TO**ANALYSIS REQUEST**

P.O. #:

Company: OXY

Attn: WADE

Address:

City:

State: Zip:

Phone #:

Fax #:

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SAMPLING

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Sample I.D.

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**CARDINAL LABORATORIES**
 101 East Marland, Hobbs, NM 88240
 (505) 393-2326 FAX (505) 393-2476
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<3 of 5>

BILL TO**ANALYSIS REQUEST**

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: Overhead B-1 (CB(10-50-18))

Project Location: Eddy County NM

Sample Name: Simon Rendon

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

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(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

MATRIX

PRESERV

SAMPLING

DATE TIME

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

Relinquished By:

Date: 3-15-21

Time: 8:00 AM

Received By:

Date: 3-15-21

Time: 3:30 PM

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Date: 3-15-21

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Delivered By: (Circle One)

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Sample Condition

CHECKED BY

(Initials)

V.B.

Phone Result:

Fax Result:

Add'l Phone #:

Add'l Fax #:

REMARKS:

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

$$\sqrt{5 \text{ of } 5}$$

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



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
New Mexico

GO

Click to hideNews Bulletins

- Please see news on new formats
- Full News

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 321205103544701

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

USGS 321205103544701 24S.30E.19.42113

Eddy County, New Mexico
Latitude 32°12'05", Longitude 103°54'47" NAD27
Land-surface elevation 3,188 feet above NAVD88
The depth of the well is 452 feet below land surface.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1958-10-24		D	227.70				2		U	
1959-03-19		D	227.75				2		U	
1975-12-10		D	231.78				2		U	
1976-01-16		D	237.26				2		U	
1976-12-01		D	230.73				2		U	
1977-01-14		D	230.62				2		U	
1983-02-01		D	235.93				2		U	
1987-10-15		D	233.30				2		S	
1998-01-27		D	231.02				2		S	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown method.

Section	Code	Description
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

[Questions about sites/data?](#)

[Feedback on this web site](#)

[Automated retrievals](#)

[Help](#)

[Data Tips](#)

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

Title: Groundwater for New Mexico: Water Levels

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



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

Page Last Modified: 2018-11-29 11:55:10 EST

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Form C-141

Page 6

State of New Mexico
Oil Conservation Division

Incident ID	NAB1832536550
District RP	
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 CoordinatorSignature:  Date: 3-30-21email: wade_dittrich@oxy.com Telephone: (575) 390-2828**OCD Only**Received by: Robert Hamlet Date: 8/26/2021

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

Closure Approved by: Robert Hamlet Date: 8/26/2021Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 29717

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:
	16696
	Action Number:
	29717
Action Type:	
[C-141] Release Corrective Action (C-141)	

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAB1832536550 RIVERBEND FEDERAL B-11 CTB, thank you. This closure is approved.	8/26/2021