

Closure Report**Incident ID:NRM2028959394****Re-submittal: Corrected after rejection****Site Description**

Site Name:	Copperhead 18-1 SWD
Company:	Oxy, Permian
Legal Description:	U/L G, Section 18, T24S, R33E
County:	Lea County, NM
GPS Coordinates:	N 32.21828 W103.61021

Release Data

Date of Release:	9/1/2020
Type of Release:	Produced water
Source of Release:	Internal Corrosion
Volume of Release:	20 bbls
Volume Recovered:	2 bbls

Remediation Specifications

Remediation Parameters:	Risk based remediation: Excavate the entire leak area to a depth of 1 foot. Collect bottom confirmation samples every 200 feet. Backfill the entire site with clean soil.	
Remediation Activities:	3/22/21 thru 5/12/21	
Plan Sent to OCD:		
OCD Approval of Plan:		
Plan Sent to BLM:		
BLM Approval of Plan:		

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 9/16/20 & 9/17/21, 4/12/21	
Sampling Notification	3/30/2021	

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.

5/24/2021

Form C-141

Page 6

State of New Mexico
Oil Conservation Division

Incident ID	NRM2028959394
District RP	
Facility ID	
Application ID	

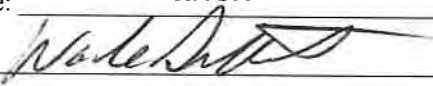
Closure

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 OCD District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Wade Dittrich Title: Environmental Coordinator
Signature:  Date: 3-23-22
email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: Jennifer Nobui Date: 04/20/2022
Printed Name: Jennifer Nobui Title: Environmental Specialist A

From: [Cliff Brunson](#)
To: OCD.enviro@state.nm.us
Cc: ["Wade Ditttrich"](#); ["Ken Swinney"](#); ["Jennifer Gilkey"](#); [Renee Jimenez](#); [Isabel Ramirez](#)
Subject: OXY - Copperhead 18-1 SWD - Sampling Notification
Date: Tuesday, March 30, 2021 6:26:01 PM

This is a notification that BBC will conduct confirmation sampling on behalf of OXY at the Copperhead 18-1 SWD (Incident ID # NRM2028959394) on Friday, April 2 at 9:00 a.m.

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland St.
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Oxy, Cooperhead 18-1 SWD

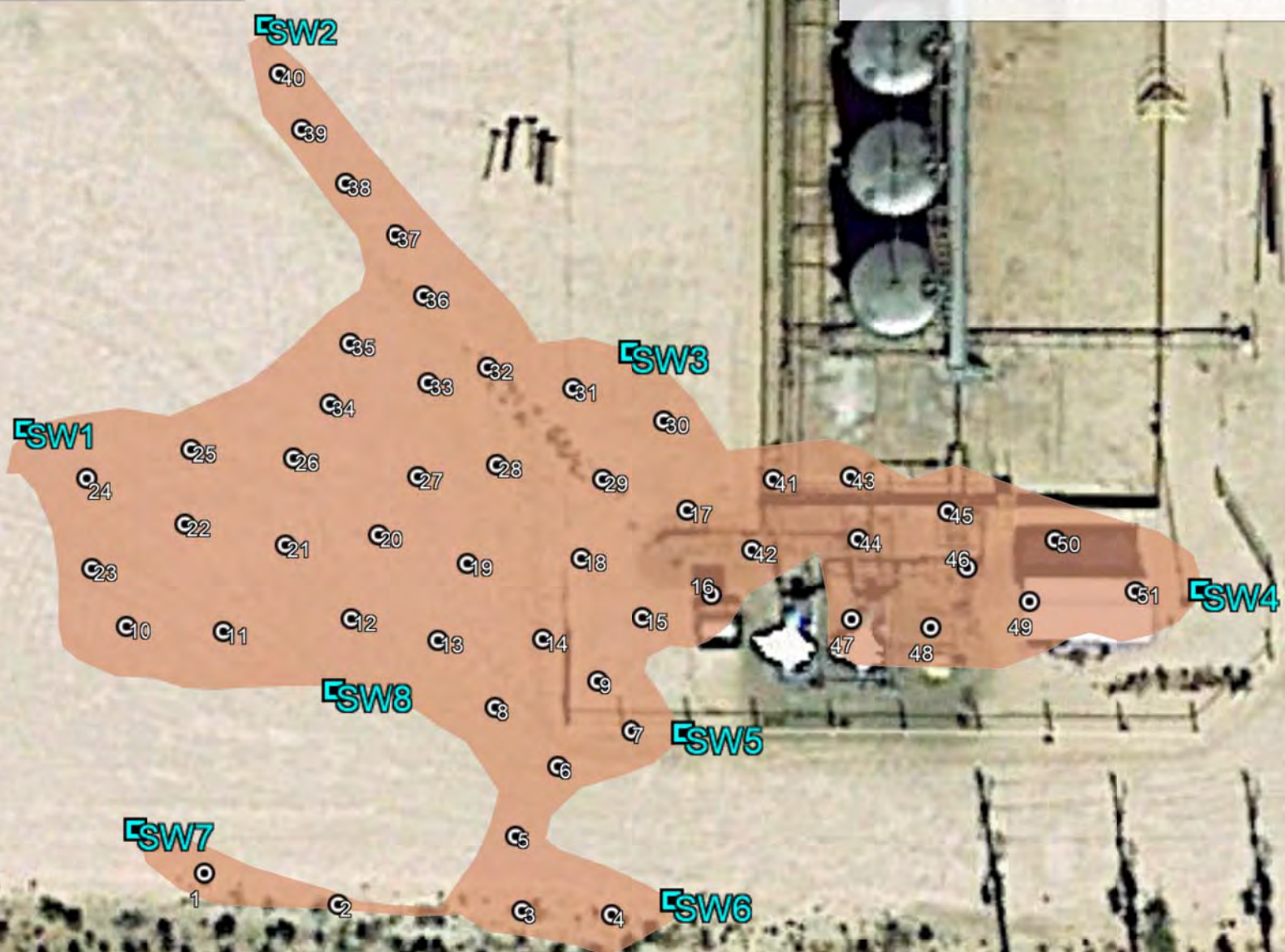
LEAK DATE: 9-1-20
ID#NRM2028959394
LEA COUNTY, NM

Legend

 2' Excavation

 BOTTOM CONFIRMATION SAMPLE

 SIDEWALL CONFIRMATION SAMPLE



COOPERHEAD 18-1 SWD (9-1-20)

SW1	N32.218323	W-103.610199
SW2	N32.218504	W-103.610071
SW3	N32.218358	W-103.609878
SW4	N32.218251	W-103.609576
SW5	N32.218187	W-103.609850
SW6	N32.218112	W-103.609856
SW7	N32.218144	W-103.610140
SW8	N32.218206	W-103.610035
BS1@ 2'	N32.218124	W-103.610103
BS2@ 2'	N32.218110	W-103.610033
BS3@ 2'	N32.218107	W-103.609935
BS4@ 2'	N32.218105	W-103.609888
BS5@ 2'	N32.218141	W-103.609939
BS6@ 2'	N32.218172	W-103.609917
BS7@ 2'	N32.218188	W-103.609878
BS8@ 2'	N32.218198	W-103.609950
BS9@ 2'	N32.218210	W-103.609896
BS10@ 2'	N32.218234	W-103.610145
BS11@ 2'	N32.218232	W-103.610093
BS12@ 2'	N32.218238	W-103.610026
BS13@ 2'	N32.218228	W-103.609980
BS14@ 2'	N32.218229	W-103.609924
BS15@ 2'	N32.218238	W-103.609871
BS16@ 2'	N32.218249	W-103.609835
BS17@ 2'	N32.218287	W-103.609848
BS18@ 2'	N32.218265	W-103.609904
BS19@ 2'	N32.218263	W-103.609964
BS20@ 2'	N32.218276	W-103.610012
BS21@ 2'	N32.218271	W-103.610061

COOPERHEAD 18-1 SWD (9-1-20)

BS22@ 2'	N32.218281	W-103.610113
BS23@ 2'	N32.218261	W-103.610163
BS24@ 2'	N32.218301	W-103.610166
BS25@ 2'	N32.218314	W-103.610110
BS26@ 2'	N32.218310	W-103.610056
BS27@ 2'	N32.218302	W-103.609990
BS28@ 2'	N32.218307	W-103.609949
BS29@ 2'	N32.218301	W-103.609893
BS30@ 2'	N32.218327	W-103.609860
BS31@ 2'	N32.218341	W-103.609909
BS32@ 2'	N32.218351	W-103.609953
BS33@ 2'	N32.218344	W-103.609985
BS34@ 2'	N32.218334	W-103.611037
BS35@ 2'	N32.218361	W-103.610027
BS36@ 2'	N32.218383	W-103.609987
BS37@ 2'	N32.218410	W-103.610002
BS38@ 2'	N32.218433	W-103.610029
BS39@ 2'	N32.218457	W-103.610052
BS40@ 2'	N32.218482	W-103.610064
BS41@ 2'	N32.218301	W-103.609803
BS42@ 2'	N32.218269	W-103.609814
BS43@ 2'	N32.218302	W-103.609762
BS44@ 2'	N32.218274	W-103.609758
BS45@ 2'	N32.218286	W-103.609710
BS46@ 2'	N32.218261	W-103.609700
BS47@ 2'	N32.218238	W-103.609761
BS48@ 2'	N32.218234	W-103.609719
BS49@ 2'	N32.218246	W-103.609667
BS50@ 2'	N32.218273	W-103.609653

COOPERHEAD 18-1 SWD (9-1-20)

BS51@2

N32.218250

W-103.609610































Laboratory Analytical Results Summary
Oxy, Copperhead 18-1 SWD 9-1-20

		Sample ID	SIDEWALL 1	SIDEWALL 2	SIDEWALL 3	SIDEWALL 4	SIDEWALL 5	SIDEWALL 6	SIDEWALL 7	SIDEWALL 8
Analyte	Method	Date	4/12/21	4/12/21	4/12/21	4/12/21	4/12/21	4/12/21	4/12/21	4/12/21
			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		32.0	32.0	16.0	32.0	32.0	32.0	16	32
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

		Sample ID	BOTTOM 1 @ 2'	BOTTOM 2 @ 2'	BOTTOM 3 @ 2'	BOTTOM 4 @ 2'	BOTTOM 5 @ 2'	BOTTOM 6 @ 2'	BOTTOM 7 @ 2'	BOTTOM 8 @ 2'	BOTTOM 9 @ 2'	BOTTOM 10 @ 2'
Analyte	Method	Date	4/12/21	4/12/21	4/12/21	4/12/21	4/12/21	4/12/21	4/12/21	4/12/21	4/12/21	4/12/21
			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		32	32	32	32	16	32	48	32	32	112
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

		Sample ID	BOTTOM 11 @ 2'	BOTTOM 12 @ 2'	BOTTOM 13 @ 2'	BOTTOM 14 @ 2'	BOTTOM 15 @ 2'	BOTTOM 16 @ 2'	BOTTOM 17 @ 2'	BOTTOM 18 @ 2'	BOTTOM 19 @ 2'	BOTTOM 20 @ 2'
Analyte	Method	Date	4/12/21	4/12/21	4/12/21	4/12/21	4/12/21	4/12/21	4/12/21	4/12/21	4/12/21	4/12/21
			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		32	32	16	32	16	32	48	16	32	32
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

		Sample ID	BOTTOM 21 @ 2'	BOTTOM 22 @ 2'	BOTTOM 23 @ 2'	BOTTOM 24 @ 2'	BOTTOM 25 @ 2'	BOTTOM 26 @ 2'	BOTTOM 27 @ 2'	BOTTOM 28 @ 2'	BOTTOM 29 @ 2'	BOTTOM 30 @ 2'
Analyte	Method	Date	4/12/21	4/12/21	4/12/21	4/12/21	4/12/21	4/12/21	4/12/21	4/12/21	4/12/21	4/12/21
			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		32	32	16	32	16	32	48	32	32	32
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

Laboratory Analytical Results Summary
Oxy, Copperhead 18-1 SWD 9-1-20

		Sample ID	BOTTOM 31 @ 2'	BOTTOM 32 @ 2'	BOTTOM 33 @ 2'	BOTTOM 34 @ 2'	BOTTOM 35 @ 2'	BOTTOM 36 @ 2'	BOTTOM 37 @ 2'	BOTTOM 38 @ 2'	BOTTOM 39 @ 2'	BOTTOM 40 @ 2'
Analyte	Method	Date	4/12/21	4/12/21	4/12/21	4/12/21	4/12/21	4/12/21	4/12/21	4/12/21	4/12/21	4/12/21
			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		32	16	32	32	32	32	16	16	32	48
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

		Sample ID	BOTTOM 41 @ 2'	BOTTOM 42 @ 2'	BOTTOM 43 @ 2'	BOTTOM 44 @ 2'	BOTTOM 45 @ 2'	BOTTOM 46 @ 2'	BOTTOM 47 @ 2'	BOTTOM 48 @ 2'	BOTTOM 49 @ 2'	BOTTOM 50 @ 2'
Analyte	Method	Date	4/12/21	4/12/21	4/12/21	4/12/21	4/12/21	4/12/21	4/12/21	4/12/21	4/12/21	4/12/21
			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	16	16	16	32	16	32	32	32	32
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

		Sample ID	BOTTOM 51 @ 2'
Analyte	Method	Date	4/12/21
			mg/kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		32
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0



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

April 05, 2021

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: COPPERHEAD 18 - 1 SWD

Enclosed are the results of analyses for samples received by the laboratory on 04/05/21 8:10.

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:	04/05/2021	Sampling Date:	04/02/2021
Reported:	04/05/2021	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

Sample ID: BOTTOM 1 (H210819-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	04/05/2021	ND	416	104	400	3.92	

Sample ID: BOTTOM 2 (H210819-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	16.0	04/05/2021	ND	416	104	400	3.92	

Sample ID: BOTTOM 3 (H210819-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	04/05/2021	ND	416	104	400	3.92	

Sample ID: BOTTOM 4 (H210819-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	04/05/2021	ND	416	104	400	3.92	

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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:	04/05/2021	Sampling Date:	04/02/2021
Reported:	04/05/2021	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

Sample ID: BOTTOM 5 (H210819-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4080	16.0	04/05/2021	ND	416	104	400	3.92		

Sample ID: BOTTOM 6 (H210819-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4000	16.0	04/05/2021	ND	416	104	400	3.92		

Sample ID: BOTTOM 7 (H210819-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4320	16.0	04/05/2021	ND	416	104	400	3.92		

Sample ID: BOTTOM 8 (H210819-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3600	16.0	04/05/2021	ND	416	104	400	3.92		

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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 black ink, appearing to read "Celey D. Keene", is written over a light blue horizontal line.

Celey D. Keene, Lab Director/Quality Manager



Bill To

ANALYSIS REQUEST

FOIA-000-K.S.1 00104720



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

April 16, 2021

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: COPPERHEAD 18 - 1 SWD

Enclosed are the results of analyses for samples received by the laboratory on 04/13/21 8:28.

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 fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

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:	04/13/2021	Sampling Date:	04/12/2021
Reported:	04/16/2021	Sampling Type:	Soil
Project Name:	COPPERHEAD 18 - 1 SWD	Sampling Condition:	Cool & Intact
Project Number:	(9 - 1 - 20)	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA CO NM		

Sample ID: SIDEWALL 1 (H210922-01)

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	04/13/2021	ND	2.31	116	2.00	1.59	
Toluene*	<0.050	0.050	04/13/2021	ND	2.18	109	2.00	1.48	
Ethylbenzene*	<0.050	0.050	04/13/2021	ND	2.18	109	2.00	1.76	
Total Xylenes*	<0.150	0.150	04/13/2021	ND	6.47	108	6.00	1.95	
Total BTEX	<0.300	0.300	04/13/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	04/14/2021	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	04/14/2021	ND	226	113	200	0.0402	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	253	127	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 95.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.4 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SIDEWALL 2 (H210922-02)

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	04/13/2021	ND	2.31	116	2.00	1.59	
Toluene*	<0.050	0.050	04/13/2021	ND	2.18	109	2.00	1.48	
Ethylbenzene*	<0.050	0.050	04/13/2021	ND	2.18	109	2.00	1.76	
Total Xylenes*	<0.150	0.150	04/13/2021	ND	6.47	108	6.00	1.95	
Total BTEx	<0.300	0.300	04/13/2021	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	32.0	16.0	04/14/2021	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	04/14/2021	ND	226	113	200	0.0402	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	253	127	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 92.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 89.1 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SIDEWALL 3 (H210922-03)

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	04/13/2021	ND	2.31	116	2.00	1.59	
Toluene*	<0.050	0.050	04/13/2021	ND	2.18	109	2.00	1.48	
Ethylbenzene*	<0.050	0.050	04/13/2021	ND	2.18	109	2.00	1.76	
Total Xylenes*	<0.150	0.150	04/13/2021	ND	6.47	108	6.00	1.95	
Total BTX	<0.300	0.300	04/13/2021	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	04/14/2021	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	04/14/2021	ND	226	113	200	0.0402	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	253	127	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 85.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 86.7 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SIDEWALL 4 (H210922-04)

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	04/13/2021	ND	2.31	116	2.00	1.59		
Toluene*	<0.050	0.050	04/13/2021	ND	2.18	109	2.00	1.48		
Ethylbenzene*	<0.050	0.050	04/13/2021	ND	2.18	109	2.00	1.76		
Total Xylenes*	<0.150	0.150	04/13/2021	ND	6.47	108	6.00	1.95		
Total BTX	<0.300	0.300	04/13/2021	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	32.0	16.0	04/14/2021	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	04/14/2021	ND	226	113	200	0.0402		
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	253	127	200	3.77		
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND						

Surrogate: 1-Chlorooctane 79.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.1 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SIDEWALL 5 (H210922-05)

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	04/13/2021	ND	2.31	116	2.00	1.59	
Toluene*	<0.050	0.050	04/13/2021	ND	2.18	109	2.00	1.48	
Ethylbenzene*	<0.050	0.050	04/13/2021	ND	2.18	109	2.00	1.76	
Total Xylenes*	<0.150	0.150	04/13/2021	ND	6.47	108	6.00	1.95	
Total BTX	<0.300	0.300	04/13/2021	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	32.0	16.0	04/14/2021	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	04/14/2021	ND	226	113	200	0.0402	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	253	127	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 93.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 93.5 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SIDEWALL 6 (H210922-06)

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	04/13/2021	ND	2.31	116	2.00	1.59	
Toluene*	<0.050	0.050	04/13/2021	ND	2.18	109	2.00	1.48	
Ethylbenzene*	<0.050	0.050	04/13/2021	ND	2.18	109	2.00	1.76	
Total Xylenes*	<0.150	0.150	04/13/2021	ND	6.47	108	6.00	1.95	
Total BTX	<0.300	0.300	04/13/2021	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	32.0	16.0	04/14/2021	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	04/14/2021	ND	226	113	200	0.0402	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	253	127	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 92.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 89.6 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SIDEWALL 7 (H210922-07)

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	04/13/2021	ND	2.31	116	2.00	1.59	
Toluene*	<0.050	0.050	04/13/2021	ND	2.18	109	2.00	1.48	
Ethylbenzene*	<0.050	0.050	04/13/2021	ND	2.18	109	2.00	1.76	
Total Xylenes*	<0.150	0.150	04/13/2021	ND	6.47	108	6.00	1.95	
Total BTX	<0.300	0.300	04/13/2021	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	04/14/2021	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	04/14/2021	ND	226	113	200	0.0402	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	253	127	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 84.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 85.1 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SIDEWALL 8 (H210922-08)

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	04/13/2021	ND	2.31	116	2.00	1.59		
Toluene*	<0.050	0.050	04/13/2021	ND	2.18	109	2.00	1.48		
Ethylbenzene*	<0.050	0.050	04/13/2021	ND	2.18	109	2.00	1.76		
Total Xylenes*	<0.150	0.150	04/13/2021	ND	6.47	108	6.00	1.95		
Total BTX	<0.300	0.300	04/13/2021	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	32.0	16.0	04/14/2021	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	04/14/2021	ND	226	113	200	0.0402	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	253	127	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-144

Surrogate: 1-Chlorooctadecane 103 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 1 @ 2' (H210922-09)

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	04/13/2021	ND	2.31	116	2.00	1.59		
Toluene*	<0.050	0.050	04/13/2021	ND	2.18	109	2.00	1.48		
Ethylbenzene*	<0.050	0.050	04/13/2021	ND	2.18	109	2.00	1.76		
Total Xylenes*	<0.150	0.150	04/13/2021	ND	6.47	108	6.00	1.95		
Total BTX	<0.300	0.300	04/13/2021	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	32.0	16.0	04/14/2021	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	04/14/2021	ND	226	113	200	0.0402	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	253	127	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 113 % 44.3-144

Surrogate: 1-Chlorooctadecane 113 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 2 @ 2' (H210922-10)

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	04/13/2021	ND	2.31	116	2.00	1.59	
Toluene*	<0.050	0.050	04/13/2021	ND	2.18	109	2.00	1.48	
Ethylbenzene*	<0.050	0.050	04/13/2021	ND	2.18	109	2.00	1.76	
Total Xylenes*	<0.150	0.150	04/13/2021	ND	6.47	108	6.00	1.95	
Total BTEx	<0.300	0.300	04/13/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	04/14/2021	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	04/14/2021	ND	226	113	200	0.0402	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	253	127	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 82.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 80.5 % 42.2-156

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Analytical Results For:

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

Received: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 3 @ 2' (H210922-11)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/13/2021	ND	2.31	116	2.00	1.59		
Toluene*	<0.050	0.050	04/13/2021	ND	2.18	109	2.00	1.48		
Ethylbenzene*	<0.050	0.050	04/13/2021	ND	2.18	109	2.00	1.76		
Total Xylenes*	<0.150	0.150	04/13/2021	ND	6.47	108	6.00	1.95		
Total BTX	<0.300	0.300	04/13/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	04/14/2021	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	04/14/2021	ND	226	113	200	0.0402	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	253	127	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 97.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 98.4 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 4 @ 2' (H210922-12)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2021	ND	2.22	111	2.00	4.75		
Toluene*	<0.050	0.050	04/15/2021	ND	2.17	109	2.00	1.18		
Ethylbenzene*	<0.050	0.050	04/15/2021	ND	2.11	105	2.00	0.126		
Total Xylenes*	<0.150	0.150	04/15/2021	ND	6.31	105	6.00	0.580		
Total BTX	<0.300	0.300	04/15/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 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	04/14/2021	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	04/14/2021	ND	226	113	200	0.0402	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	253	127	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 84.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 84.5 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 5 @ 2' (H210922-13)

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	04/15/2021	ND	2.22	111	2.00	4.75		
Toluene*	<0.050	0.050	04/15/2021	ND	2.17	109	2.00	1.18		
Ethylbenzene*	<0.050	0.050	04/15/2021	ND	2.11	105	2.00	0.126		
Total Xylenes*	<0.150	0.150	04/15/2021	ND	6.31	105	6.00	0.580		
Total BTEx	<0.300	0.300	04/15/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 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	04/14/2021	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	04/14/2021	ND	226	113	200	0.0402	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	253	127	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 82.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 84.1 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 6 @ 2' (H210922-14)

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	04/15/2021	ND	2.22	111	2.00	4.75		
Toluene*	<0.050	0.050	04/15/2021	ND	2.17	109	2.00	1.18		
Ethylbenzene*	<0.050	0.050	04/15/2021	ND	2.11	105	2.00	0.126		
Total Xylenes*	<0.150	0.150	04/15/2021	ND	6.31	105	6.00	0.580		
Total BTX	<0.300	0.300	04/15/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	04/14/2021	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	04/14/2021	ND	226	113	200	0.0402	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	253	127	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 80.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.8 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 7 @ 2' (H210922-15)

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	04/15/2021	ND	2.22	111	2.00	4.75		
Toluene*	<0.050	0.050	04/15/2021	ND	2.17	109	2.00	1.18		
Ethylbenzene*	<0.050	0.050	04/15/2021	ND	2.11	105	2.00	0.126		
Total Xylenes*	<0.150	0.150	04/15/2021	ND	6.31	105	6.00	0.580		
Total BTX	<0.300	0.300	04/15/2021	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	48.0	16.0	04/14/2021	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	04/14/2021	ND	226	113	200	0.0402	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	253	127	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 95.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 94.7 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 8 @ 2' (H210922-16)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2021	ND	2.22	111	2.00	4.75		
Toluene*	<0.050	0.050	04/15/2021	ND	2.17	109	2.00	1.18		
Ethylbenzene*	<0.050	0.050	04/15/2021	ND	2.11	105	2.00	0.126		
Total Xylenes*	<0.150	0.150	04/15/2021	ND	6.31	105	6.00	0.580		
Total BTX	<0.300	0.300	04/15/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 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	04/14/2021	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	04/14/2021	ND	226	113	200	0.0402	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	253	127	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.5 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 9 @ 2' (H210922-17)

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	04/15/2021	ND	2.22	111	2.00	4.75		
Toluene*	<0.050	0.050	04/15/2021	ND	2.17	109	2.00	1.18		
Ethylbenzene*	<0.050	0.050	04/15/2021	ND	2.11	105	2.00	0.126		
Total Xylenes*	<0.150	0.150	04/15/2021	ND	6.31	105	6.00	0.580		
Total BTX	<0.300	0.300	04/15/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 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	04/14/2021	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	04/13/2021	ND	212	106	200	0.790	
DRO >C10-C28*	<10.0	10.0	04/13/2021	ND	238	119	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	04/13/2021	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-144

Surrogate: 1-Chlorooctadecane 105 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 10 @ 2' (H210922-18)

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	04/15/2021	ND	2.22	111	2.00	4.75		
Toluene*	<0.050	0.050	04/15/2021	ND	2.17	109	2.00	1.18		
Ethylbenzene*	<0.050	0.050	04/15/2021	ND	2.11	105	2.00	0.126		
Total Xylenes*	<0.150	0.150	04/15/2021	ND	6.31	105	6.00	0.580		
Total BTX	<0.300	0.300	04/15/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	112	16.0	04/14/2021	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	04/14/2021	ND	212	106	200	0.790	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	238	119	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 118 % 44.3-144

Surrogate: 1-Chlorooctadecane 119 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 11 @ 2' (H210922-19)

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	04/15/2021	ND	2.22	111	2.00	4.75		
Toluene*	<0.050	0.050	04/15/2021	ND	2.17	109	2.00	1.18		
Ethylbenzene*	<0.050	0.050	04/15/2021	ND	2.11	105	2.00	0.126		
Total Xylenes*	<0.150	0.150	04/15/2021	ND	6.31	105	6.00	0.580		
Total BTEX	<0.300	0.300	04/15/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 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	04/14/2021	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	04/13/2021	ND	212	106	200	0.790	
DRO >C10-C28*	<10.0	10.0	04/13/2021	ND	238	119	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	04/13/2021	ND					

Surrogate: 1-Chlorooctane 96.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.8 % 42.2-156

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Analytical Results For:

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

Received: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 12 @ 2' (H210922-20)

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	04/15/2021	ND	2.22	111	2.00	4.75		
Toluene*	<0.050	0.050	04/15/2021	ND	2.17	109	2.00	1.18		
Ethylbenzene*	<0.050	0.050	04/15/2021	ND	2.11	105	2.00	0.126		
Total Xylenes*	<0.150	0.150	04/15/2021	ND	6.31	105	6.00	0.580		
Total BTX	<0.300	0.300	04/15/2021	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	04/14/2021	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	04/13/2021	ND	212	106	200	0.790	
DRO >C10-C28*	<10.0	10.0	04/13/2021	ND	238	119	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	04/13/2021	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 13 @ 2' (H210922-21)

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	04/15/2021	ND	2.22	111	2.00	4.75		
Toluene*	<0.050	0.050	04/15/2021	ND	2.17	109	2.00	1.18		
Ethylbenzene*	<0.050	0.050	04/15/2021	ND	2.11	105	2.00	0.126		
Total Xylenes*	<0.150	0.150	04/15/2021	ND	6.31	105	6.00	0.580		
Total BTX	<0.300	0.300	04/15/2021	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	04/14/2021	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	04/13/2021	ND	212	106	200	0.790	
DRO >C10-C28*	<10.0	10.0	04/13/2021	ND	238	119	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	04/13/2021	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-144

Surrogate: 1-Chlorooctadecane 104 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 14 @ 2' (H210922-22)

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	04/15/2021	ND	2.22	111	2.00	4.75		
Toluene*	<0.050	0.050	04/15/2021	ND	2.17	109	2.00	1.18		
Ethylbenzene*	<0.050	0.050	04/15/2021	ND	2.11	105	2.00	0.126		
Total Xylenes*	<0.150	0.150	04/15/2021	ND	6.31	105	6.00	0.580		
Total BTEx	<0.300	0.300	04/15/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 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	04/14/2021	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	04/13/2021	ND	212	106	200	0.790	
DRO >C10-C28*	<10.0	10.0	04/13/2021	ND	238	119	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	04/13/2021	ND					

Surrogate: 1-Chlorooctane 92.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.6 % 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
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 Fax To: (575) 397-0397

Received: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 15 @ 2' (H210922-23)

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	04/15/2021	ND	2.22	111	2.00	4.75		
Toluene*	<0.050	0.050	04/15/2021	ND	2.17	109	2.00	1.18		
Ethylbenzene*	<0.050	0.050	04/15/2021	ND	2.11	105	2.00	0.126		
Total Xylenes*	<0.150	0.150	04/15/2021	ND	6.31	105	6.00	0.580		
Total BTEx	<0.300	0.300	04/15/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 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	04/14/2021	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	04/13/2021	ND	212	106	200	0.790	
DRO >C10-C28*	<10.0	10.0	04/13/2021	ND	238	119	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	04/13/2021	ND					

Surrogate: 1-Chlorooctane 107 % 44.3-144

Surrogate: 1-Chlorooctadecane 107 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 16 @ 2' (H210922-24)

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	04/15/2021	ND	2.22	111	2.00	4.75		
Toluene*	<0.050	0.050	04/15/2021	ND	2.17	109	2.00	1.18		
Ethylbenzene*	<0.050	0.050	04/15/2021	ND	2.11	105	2.00	0.126		
Total Xylenes*	<0.150	0.150	04/15/2021	ND	6.31	105	6.00	0.580		
Total BTX	<0.300	0.300	04/15/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.4 % 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	04/14/2021	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	04/13/2021	ND	212	106	200	0.790	
DRO >C10-C28*	<10.0	10.0	04/13/2021	ND	238	119	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	04/13/2021	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-144

Surrogate: 1-Chlorooctadecane 103 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 17 @ 2' (H210922-25)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2021	ND	2.22	111	2.00	4.75		
Toluene*	<0.050	0.050	04/15/2021	ND	2.17	109	2.00	1.18		
Ethylbenzene*	<0.050	0.050	04/15/2021	ND	2.11	105	2.00	0.126		
Total Xylenes*	<0.150	0.150	04/15/2021	ND	6.31	105	6.00	0.580		
Total BTX	<0.300	0.300	04/15/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	04/14/2021	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	04/13/2021	ND	212	106	200	0.790	
DRO >C10-C28*	<10.0	10.0	04/13/2021	ND	238	119	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	04/13/2021	ND					

Surrogate: 1-Chlorooctane 92.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 93.8 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 18 @ 2' (H210922-26)

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	04/15/2021	ND	2.22	111	2.00	4.75		
Toluene*	<0.050	0.050	04/15/2021	ND	2.17	109	2.00	1.18		
Ethylbenzene*	<0.050	0.050	04/15/2021	ND	2.11	105	2.00	0.126		
Total Xylenes*	<0.150	0.150	04/15/2021	ND	6.31	105	6.00	0.580		
Total BTX	<0.300	0.300	04/15/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 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	04/14/2021	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	04/14/2021	ND	212	106	200	0.790	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	238	119	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 110 % 44.3-144

Surrogate: 1-Chlorooctadecane 112 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 19 @ 2' (H210922-27)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2021	ND	2.22	111	2.00	4.75		
Toluene*	<0.050	0.050	04/15/2021	ND	2.17	109	2.00	1.18		
Ethylbenzene*	<0.050	0.050	04/15/2021	ND	2.11	105	2.00	0.126		
Total Xylenes*	<0.150	0.150	04/15/2021	ND	6.31	105	6.00	0.580		
Total BTX	<0.300	0.300	04/15/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.6 % 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	04/14/2021	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	04/14/2021	ND	212	106	200	0.790	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	238	119	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 110 % 44.3-144

Surrogate: 1-Chlorooctadecane 113 % 42.2-156

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Analytical Results For:

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

Received: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 20 @ 2' (H210922-28)

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	04/16/2021	ND	2.22	111	2.00	4.75		
Toluene*	<0.050	0.050	04/16/2021	ND	2.17	109	2.00	1.18		
Ethylbenzene*	<0.050	0.050	04/16/2021	ND	2.11	105	2.00	0.126		
Total Xylenes*	<0.150	0.150	04/16/2021	ND	6.31	105	6.00	0.580		
Total BTX	<0.300	0.300	04/16/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 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	04/14/2021	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	04/14/2021	ND	212	106	200	0.790	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	238	119	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-144

Surrogate: 1-Chlorooctadecane 105 % 42.2-156

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Analytical Results For:

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

Received: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 21 @ 2' (H210922-29)

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	04/15/2021	ND	2.22	111	2.00	4.75		
Toluene*	<0.050	0.050	04/15/2021	ND	2.17	109	2.00	1.18		
Ethylbenzene*	<0.050	0.050	04/15/2021	ND	2.11	105	2.00	0.126		
Total Xylenes*	<0.150	0.150	04/15/2021	ND	6.31	105	6.00	0.580		
Total BTX	<0.300	0.300	04/15/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.6 % 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	04/14/2021	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	04/14/2021	ND	212	106	200	0.790	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	238	119	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-144

Surrogate: 1-Chlorooctadecane 102 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 22 @ 2' (H210922-30)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2021	ND	2.22	111	2.00	4.75		
Toluene*	<0.050	0.050	04/15/2021	ND	2.17	109	2.00	1.18		
Ethylbenzene*	<0.050	0.050	04/15/2021	ND	2.11	105	2.00	0.126		
Total Xylenes*	<0.150	0.150	04/15/2021	ND	6.31	105	6.00	0.580		
Total BTX	<0.300	0.300	04/15/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 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	04/14/2021	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	04/14/2021	ND	212	106	200	0.790	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	238	119	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 102 % 44.3-144

Surrogate: 1-Chlorooctadecane 101 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 23 @ 2' (H210922-31)

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	04/15/2021	ND	2.22	111	2.00	4.75		
Toluene*	<0.050	0.050	04/15/2021	ND	2.17	109	2.00	1.18		
Ethylbenzene*	<0.050	0.050	04/15/2021	ND	2.11	105	2.00	0.126		
Total Xylenes*	<0.150	0.150	04/15/2021	ND	6.31	105	6.00	0.580		
Total BTX	<0.300	0.300	04/15/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 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	04/15/2021	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	04/14/2021	ND	212	106	200	0.790	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	238	119	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 113 % 44.3-144

Surrogate: 1-Chlorooctadecane 112 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 24 @ 2' (H210922-32)

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	04/15/2021	ND	2.19	110	2.00	5.84	
Toluene*	<0.050	0.050	04/15/2021	ND	2.09	105	2.00	5.91	
Ethylbenzene*	<0.050	0.050	04/15/2021	ND	2.07	104	2.00	6.02	
Total Xylenes*	<0.150	0.150	04/15/2021	ND	6.18	103	6.00	5.54	
Total BTX	<0.300	0.300	04/15/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	04/15/2021	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	04/14/2021	ND	212	106	200	0.790	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	238	119	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 106 % 44.3-144

Surrogate: 1-Chlorooctadecane 106 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 25 @ 2' (H210922-33)

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	04/15/2021	ND	2.19	110	2.00	5.84	
Toluene*	<0.050	0.050	04/15/2021	ND	2.09	105	2.00	5.91	
Ethylbenzene*	<0.050	0.050	04/15/2021	ND	2.07	104	2.00	6.02	
Total Xylenes*	<0.150	0.150	04/15/2021	ND	6.18	103	6.00	5.54	
Total BTX	<0.300	0.300	04/15/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	04/15/2021	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	04/14/2021	ND	212	106	200	0.790	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	238	119	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 88.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.3 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 26 @ 2' (H210922-34)

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	04/15/2021	ND	2.19	110	2.00	5.84	
Toluene*	<0.050	0.050	04/15/2021	ND	2.09	105	2.00	5.91	
Ethylbenzene*	<0.050	0.050	04/15/2021	ND	2.07	104	2.00	6.02	
Total Xylenes*	<0.150	0.150	04/15/2021	ND	6.18	103	6.00	5.54	
Total BTX	<0.300	0.300	04/15/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	04/15/2021	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	04/14/2021	ND	212	106	200	0.790	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	238	119	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 93.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 90.9 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 27 @ 2' (H210922-35)

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	04/15/2021	ND	2.19	110	2.00	5.84	
Toluene*	<0.050	0.050	04/15/2021	ND	2.09	105	2.00	5.91	
Ethylbenzene*	<0.050	0.050	04/15/2021	ND	2.07	104	2.00	6.02	
Total Xylenes*	<0.150	0.150	04/15/2021	ND	6.18	103	6.00	5.54	
Total BTX	<0.300	0.300	04/15/2021	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	32.0	16.0	04/15/2021	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	04/14/2021	ND	212	106	200	0.790	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	238	119	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 87.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.9 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 28 @ 2' (H210922-36)

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	04/15/2021	ND	2.19	110	2.00	5.84	
Toluene*	<0.050	0.050	04/15/2021	ND	2.09	105	2.00	5.91	
Ethylbenzene*	<0.050	0.050	04/15/2021	ND	2.07	104	2.00	6.02	
Total Xylenes*	<0.150	0.150	04/15/2021	ND	6.18	103	6.00	5.54	
Total BTX	<0.300	0.300	04/15/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	04/15/2021	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	04/14/2021	ND	212	106	200	0.790	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	238	119	200	4.01	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 94.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.5 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 29 @ 2' (H210922-37)

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	04/15/2021	ND	2.19	110	2.00	5.84	
Toluene*	<0.050	0.050	04/15/2021	ND	2.09	105	2.00	5.91	
Ethylbenzene*	<0.050	0.050	04/15/2021	ND	2.07	104	2.00	6.02	
Total Xylenes*	<0.150	0.150	04/15/2021	ND	6.18	103	6.00	5.54	
Total BTX	<0.300	0.300	04/15/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	04/15/2021	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	04/13/2021	ND	208	104	200	0.488	
DRO >C10-C28*	<10.0	10.0	04/13/2021	ND	217	108	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	04/13/2021	ND					

Surrogate: 1-Chlorooctane 82.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.7 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 30 @ 2' (H210922-38)

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	04/15/2021	ND	2.19	110	2.00	5.84	
Toluene*	<0.050	0.050	04/15/2021	ND	2.09	105	2.00	5.91	
Ethylbenzene*	<0.050	0.050	04/15/2021	ND	2.07	104	2.00	6.02	
Total Xylenes*	<0.150	0.150	04/15/2021	ND	6.18	103	6.00	5.54	
Total BTX	<0.300	0.300	04/15/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	04/15/2021	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	04/13/2021	ND	208	104	200	0.488	
DRO >C10-C28*	<10.0	10.0	04/13/2021	ND	217	108	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	04/13/2021	ND					

Surrogate: 1-Chlorooctane 66.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 69.4 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 31 @ 2' (H210922-39)

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	04/16/2021	ND	2.19	110	2.00	5.84	
Toluene*	<0.050	0.050	04/16/2021	ND	2.09	105	2.00	5.91	
Ethylbenzene*	<0.050	0.050	04/16/2021	ND	2.07	104	2.00	6.02	
Total Xylenes*	<0.150	0.150	04/16/2021	ND	6.18	103	6.00	5.54	
Total BTX	<0.300	0.300	04/16/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	04/15/2021	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	04/13/2021	ND	208	104	200	0.488	
DRO >C10-C28*	<10.0	10.0	04/13/2021	ND	217	108	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	04/13/2021	ND					

Surrogate: 1-Chlorooctane 74.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.5 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 32 @ 2' (H210922-40)

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	04/16/2021	ND	2.19	110	2.00	5.84		
Toluene*	<0.050	0.050	04/16/2021	ND	2.09	105	2.00	5.91		
Ethylbenzene*	<0.050	0.050	04/16/2021	ND	2.07	104	2.00	6.02		
Total Xylenes*	<0.150	0.150	04/16/2021	ND	6.18	103	6.00	5.54		
Total BTX	<0.300	0.300	04/16/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	04/15/2021	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	04/13/2021	ND	208	104	200	0.488	
DRO >C10-C28*	<10.0	10.0	04/13/2021	ND	217	108	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	04/13/2021	ND					

Surrogate: 1-Chlorooctane 79.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.6 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 33 @ 2' (H210922-41)

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	04/16/2021	ND	2.19	110	2.00	5.84	
Toluene*	<0.050	0.050	04/16/2021	ND	2.09	105	2.00	5.91	
Ethylbenzene*	<0.050	0.050	04/16/2021	ND	2.07	104	2.00	6.02	
Total Xylenes*	<0.150	0.150	04/16/2021	ND	6.18	103	6.00	5.54	
Total BTX	<0.300	0.300	04/16/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	04/15/2021	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	04/13/2021	ND	208	104	200	0.488	
DRO >C10-C28*	<10.0	10.0	04/13/2021	ND	217	108	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	04/13/2021	ND					

Surrogate: 1-Chlorooctane 75.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 79.7 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 34 @ 2' (H210922-42)

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	04/16/2021	ND	2.19	110	2.00	5.84		
Toluene*	<0.050	0.050	04/16/2021	ND	2.09	105	2.00	5.91		
Ethylbenzene*	<0.050	0.050	04/16/2021	ND	2.07	104	2.00	6.02		
Total Xylenes*	<0.150	0.150	04/16/2021	ND	6.18	103	6.00	5.54		
Total BTX	<0.300	0.300	04/16/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	04/15/2021	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	04/13/2021	ND	208	104	200	0.488	
DRO >C10-C28*	<10.0	10.0	04/13/2021	ND	217	108	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	04/13/2021	ND					

Surrogate: 1-Chlorooctane 76.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 80.5 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 35 @ 2' (H210922-43)

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	04/16/2021	ND	2.19	110	2.00	5.84		
Toluene*	<0.050	0.050	04/16/2021	ND	2.09	105	2.00	5.91		
Ethylbenzene*	<0.050	0.050	04/16/2021	ND	2.07	104	2.00	6.02		
Total Xylenes*	<0.150	0.150	04/16/2021	ND	6.18	103	6.00	5.54		
Total BTX	<0.300	0.300	04/16/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	04/15/2021	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	04/13/2021	ND	208	104	200	0.488	
DRO >C10-C28*	<10.0	10.0	04/13/2021	ND	217	108	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	04/13/2021	ND					

Surrogate: 1-Chlorooctane 70.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 74.1 % 42.2-156

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Analytical Results For:

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

Received: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 36 @ 2' (H210922-44)

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	04/16/2021	ND	2.19	110	2.00	5.84	
Toluene*	<0.050	0.050	04/16/2021	ND	2.09	105	2.00	5.91	
Ethylbenzene*	<0.050	0.050	04/16/2021	ND	2.07	104	2.00	6.02	
Total Xylenes*	<0.150	0.150	04/16/2021	ND	6.18	103	6.00	5.54	
Total BTX	<0.300	0.300	04/16/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	04/15/2021	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	04/13/2021	ND	208	104	200	0.488	
DRO >C10-C28*	<10.0	10.0	04/13/2021	ND	217	108	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	04/13/2021	ND					

Surrogate: 1-Chlorooctane 82.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.9 % 42.2-156

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Analytical Results For:

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

Received: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 37 @ 2' (H210922-45)

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	04/16/2021	ND	2.19	110	2.00	5.84	
Toluene*	<0.050	0.050	04/16/2021	ND	2.09	105	2.00	5.91	
Ethylbenzene*	<0.050	0.050	04/16/2021	ND	2.07	104	2.00	6.02	
Total Xylenes*	<0.150	0.150	04/16/2021	ND	6.18	103	6.00	5.54	
Total BTX	<0.300	0.300	04/16/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	04/15/2021	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	04/14/2021	ND	208	104	200	0.488	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	217	108	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 73.9 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.5 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 38 @ 2' (H210922-46)

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	04/16/2021	ND	2.19	110	2.00	5.84		
Toluene*	<0.050	0.050	04/16/2021	ND	2.09	105	2.00	5.91		
Ethylbenzene*	<0.050	0.050	04/16/2021	ND	2.07	104	2.00	6.02		
Total Xylenes*	<0.150	0.150	04/16/2021	ND	6.18	103	6.00	5.54		
Total BTX	<0.300	0.300	04/16/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	04/15/2021	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	04/14/2021	ND	208	104	200	0.488	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	217	108	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 76.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.6 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 39 @ 2' (H210922-47)

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	04/16/2021	ND	2.19	110	2.00	5.84		
Toluene*	<0.050	0.050	04/16/2021	ND	2.09	105	2.00	5.91		
Ethylbenzene*	<0.050	0.050	04/16/2021	ND	2.07	104	2.00	6.02		
Total Xylenes*	<0.150	0.150	04/16/2021	ND	6.18	103	6.00	5.54		
Total BTX	<0.300	0.300	04/16/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	04/15/2021	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	04/14/2021	ND	208	104	200	0.488	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	217	108	200	1.30	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 82.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.8 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 40 @ 2' (H210922-48)

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	04/16/2021	ND	2.19	110	2.00	5.84	
Toluene*	<0.050	0.050	04/16/2021	ND	2.09	105	2.00	5.91	
Ethylbenzene*	<0.050	0.050	04/16/2021	ND	2.07	104	2.00	6.02	
Total Xylenes*	<0.150	0.150	04/16/2021	ND	6.18	103	6.00	5.54	
Total BTX	<0.300	0.300	04/16/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	48.0	16.0	04/15/2021	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	04/14/2021	ND	208	104	200	0.973	QR-03
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	210	105	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 84.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.3 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 41 @ 2' (H210922-49)

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	04/16/2021	ND	2.19	110	2.00	5.84		
Toluene*	<0.050	0.050	04/16/2021	ND	2.09	105	2.00	5.91		
Ethylbenzene*	<0.050	0.050	04/16/2021	ND	2.07	104	2.00	6.02		
Total Xylenes*	<0.150	0.150	04/16/2021	ND	6.18	103	6.00	5.54		
Total BTX	<0.300	0.300	04/16/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	04/15/2021	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	04/14/2021	ND	208	104	200	0.973	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	210	105	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 88.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.8 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 42 @ 2' (H210922-50)

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	04/16/2021	ND	2.19	110	2.00	5.84		
Toluene*	<0.050	0.050	04/16/2021	ND	2.09	105	2.00	5.91		
Ethylbenzene*	<0.050	0.050	04/16/2021	ND	2.07	104	2.00	6.02		
Total Xylenes*	<0.150	0.150	04/16/2021	ND	6.18	103	6.00	5.54		
Total BTX	<0.300	0.300	04/16/2021	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	04/15/2021	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	04/14/2021	ND	208	104	200	0.973	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	210	105	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 91.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.7 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 43 @ 2' (H210922-51)

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	04/16/2021	ND	2.19	110	2.00	5.84		
Toluene*	<0.050	0.050	04/16/2021	ND	2.09	105	2.00	5.91		
Ethylbenzene*	<0.050	0.050	04/16/2021	ND	2.07	104	2.00	6.02		
Total Xylenes*	<0.150	0.150	04/16/2021	ND	6.18	103	6.00	5.54		
Total BTX	<0.300	0.300	04/16/2021	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	04/15/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2021	ND	208	104	200	0.973	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	210	105	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 84.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.3 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 44 @ 2' (H210922-52)

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	04/16/2021	ND	2.16	108	2.00	2.13		
Toluene*	<0.050	0.050	04/16/2021	ND	2.08	104	2.00	1.79		
Ethylbenzene*	<0.050	0.050	04/16/2021	ND	1.97	98.7	2.00	1.32		
Total Xylenes*	<0.150	0.150	04/16/2021	ND	5.84	97.4	6.00	3.46		
Total BTX	<0.300	0.300	04/16/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 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	04/15/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2021	ND	208	104	200	0.973	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	210	105	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 93.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 92.7 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 45 @ 2' (H210922-53)

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	04/16/2021	ND	2.16	108	2.00	2.13		
Toluene*	<0.050	0.050	04/16/2021	ND	2.08	104	2.00	1.79		
Ethylbenzene*	<0.050	0.050	04/16/2021	ND	1.97	98.7	2.00	1.32		
Total Xylenes*	<0.150	0.150	04/16/2021	ND	5.84	97.4	6.00	3.46		
Total BTX	<0.300	0.300	04/16/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.8 % 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	32.0	16.0	04/15/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2021	ND	208	104	200	0.973	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	210	105	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 88.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 88.5 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 46 @ 2' (H210922-54)

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	04/16/2021	ND	2.16	108	2.00	2.13		
Toluene*	<0.050	0.050	04/16/2021	ND	2.08	104	2.00	1.79		
Ethylbenzene*	<0.050	0.050	04/16/2021	ND	1.97	98.7	2.00	1.32		
Total Xylenes*	<0.150	0.150	04/16/2021	ND	5.84	97.4	6.00	3.46		
Total BTX	<0.300	0.300	04/16/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 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	04/15/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2021	ND	208	104	200	0.973	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	210	105	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 83.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.6 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 47 @ 2' (H210922-55)

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	04/16/2021	ND	2.16	108	2.00	2.13		
Toluene*	<0.050	0.050	04/16/2021	ND	2.08	104	2.00	1.79		
Ethylbenzene*	<0.050	0.050	04/16/2021	ND	1.97	98.7	2.00	1.32		
Total Xylenes*	<0.150	0.150	04/16/2021	ND	5.84	97.4	6.00	3.46		
Total BTX	<0.300	0.300	04/16/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 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	04/15/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2021	ND	208	104	200	0.973	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	210	105	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 87.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 86.5 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 48 @ 2' (H210922-56)

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	04/16/2021	ND	2.16	108	2.00	2.13		
Toluene*	<0.050	0.050	04/16/2021	ND	2.08	104	2.00	1.79		
Ethylbenzene*	<0.050	0.050	04/16/2021	ND	1.97	98.7	2.00	1.32		
Total Xylenes*	<0.150	0.150	04/16/2021	ND	5.84	97.4	6.00	3.46		
Total BTX	<0.300	0.300	04/16/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.3 % 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	04/15/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2021	ND	208	104	200	0.973	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	210	105	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 88.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.1 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 49 @ 2' (H210922-57)

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	04/16/2021	ND	2.16	108	2.00	2.13		
Toluene*	<0.050	0.050	04/16/2021	ND	2.08	104	2.00	1.79		
Ethylbenzene*	<0.050	0.050	04/16/2021	ND	1.97	98.7	2.00	1.32		
Total Xylenes*	<0.150	0.150	04/16/2021	ND	5.84	97.4	6.00	3.46		
Total BTX	<0.300	0.300	04/16/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 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	04/15/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2021	ND	208	104	200	0.973	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	210	105	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 82.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.6 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 50 @ 2' (H210922-58)

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	04/16/2021	ND	2.16	108	2.00	2.13		
Toluene*	<0.050	0.050	04/16/2021	ND	2.08	104	2.00	1.79		
Ethylbenzene*	<0.050	0.050	04/16/2021	ND	1.97	98.7	2.00	1.32		
Total Xylenes*	<0.150	0.150	04/16/2021	ND	5.84	97.4	6.00	3.46		
Total BTX	<0.300	0.300	04/16/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 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	32.0	16.0	04/15/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2021	ND	208	104	200	0.973	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	210	105	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 88.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.4 % 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: 04/13/2021
 Reported: 04/16/2021
 Project Name: COPPERHEAD 18 - 1 SWD
 Project Number: (9 - 1 - 20)
 Project Location: OXY - LEA CO NM

Sampling Date: 04/12/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 51 @ 2' (H210922-59)

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	04/16/2021	ND	2.16	108	2.00	2.13		
Toluene*	<0.050	0.050	04/16/2021	ND	2.08	104	2.00	1.79		
Ethylbenzene*	<0.050	0.050	04/16/2021	ND	1.97	98.7	2.00	1.32		
Total Xylenes*	<0.150	0.150	04/16/2021	ND	5.84	97.4	6.00	3.46		
Total BTEx	<0.300	0.300	04/16/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 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	04/15/2021	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2021	ND	208	104	200	0.973	
DRO >C10-C28*	<10.0	10.0	04/14/2021	ND	210	105	200	1.80	
EXT DRO >C28-C36	<10.0	10.0	04/14/2021	ND					

Surrogate: 1-Chlorooctane 87.5 % 44.3-144

Surrogate: 1-Chlorooctadecane 85.8 % 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", on a light-colored background.

Celey D. Keene, Lab Director/Quality Manager



ORDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.				BILL TO				ANALYSIS REQUEST			
Project Manager: Cliff Brunson				P.O. #:							
Address: P.O. Box 805				Company: OXY							
City: Hobbs				Attn: WADE							
State: NM Zip: 88241				Address:							
Phone #: 575-397-6388 Fax #: 575-397-0397				City:							
Project #:				State: Zip:							
Project Name: Copperhead 18-1 SWD(a.1-20)				Phone #:							
Project Location:				Fax #:							
Sampler Name: Roger Hernandez											

Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		CL		BTEX		TPH EXT	
H210922		1 SIDEWALL		G		1						✓										✓				4/12		10:30		✓		✓		✓	
		2 SIDEWALL		G		1						✓										✓				4/12		10:40		✓		✓		✓	
		3 SIDEWALL		G		1						✓										✓				4/12		10:50		✓		✓		✓	
		4 SIDEWALL		G		1						✓										✓				4/12		11:00		✓		✓		✓	
		5 SIDEWALL		G		1						✓										✓				4/12		11:10		✓		✓		✓	
		6 SIDEWALL		G		1						✓										✓				4/12		11:20		✓		✓		✓	
		7 SIDEWALL		G		1						✓										✓				4/12		11:30		✓		✓		✓	
		8 SIDEWALL		G		1						✓										✓				4/12		11:40		✓		✓		✓	
		9 BOTTOM		G		1						✓										✓				4/12		11:50		✓		✓		✓	
		10 BOTTOM		G		1						✓										✓				4/12		12:00		✓		✓		✓	

Relinquished By: Roger Hernandez		Date: 4-13-21		Received By: Lawrence Delgado		Date: 4-13-21		Time: 8:28		Time: 8:28		REMARKS:	
Delivered By: (Circle One)		3.8c		#4113		Sample Condition		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		CHECKED BY: (Initials)		T.O.	
Sampler - UPS - Bus - Other:													



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc. Project Manager: Cliff Brunson Address: P.O. Box 805 City: Hobbs State: NM Zip: 88241 Phone #: 575-397-6388 Fax #: 575-397-0397 Project #: Project Name: Project Location: Sample Name: Roger Hernandez										BILL TO P.O. #: Company: OXY Attn: WADE Address: City: State: Zip: Phone #: Fax #:										ANALYSIS REQUEST									
Lab I.D. Sample I.D.										Matrix (G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :										DATE TIME CL BTEX TPH EXT									
11 Bottom 3.0 2.0 11.0 12 Bottom 4.0 2.0 12.0 13 Bottom 5.0 2.0 13.0 14 Bottom 6.0 2.0 14.0 15 Bottom 7.0 2.0 15.0 16 Bottom 8.0 2.0 16.0 17 Bottom 9.0 2.0 17.0 18 Bottom 10.0 2.0 18.0 19 Bottom 11.0 2.0 19.0 20 Bottom 12.0 2.0 20.0										11 11.0 12 12.0 13 13.0 14 14.0 15 15.0 16 16.0 17 17.0 18 18.0 19 19.0 20 20.0										11 11.0 12 12.0 13 13.0 14 14.0 15 15.0 16 16.0 17 17.0 18 18.0 19 19.0 20 20.0									
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Relinquished By: Roger Hernandez Date: 4-13-21 Time: 8:28										Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> CHECKED BY: [Signature]										REMARKS:									
Delivered By: (Circle One) Sampler - UPS - Bus - Other:										3.86 #113										3.86 #113									

Released to Imaging: 4/20/2022 1:54:43 PM



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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 #:		Zip:			
Project Name: Copperhead 10-1 SWP (9-1-20)		Project Owner: Oxy			
Project Location:		Phone #:			
Sampler Name: Roger Hernandez		Fax #:			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX						DATE	TIME	CL	BTX	TPH EXT
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
H210922	Bottom	G	1							4-12-20	110			
21	Bottom	G	1							4-12-20	115			
22	Bottom	G	1							4-12-20	115			
23	Bottom	G	1							4-12-20	120			
24	Bottom	G	1							4-12-20	125			
25	Bottom	G	1							4-12-20	130			
26	Bottom	G	1							4-12-20	135			
27	Bottom	G	1							4-12-20	140			
28	Bottom	G	1							4-12-20	145			
29	Bottom	G	1							4-12-20	150			
30	Bottom	G	1							4-12-20	155			

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Relinquished By: *[Signature]* Date: 4-13-21 Received By: *[Signature]* Date: 4-13-21
 Relinquished By: *[Signature]* Date: 6-8-21 Received By: *[Signature]* Date: 6-8-21

Delivered By: (Circle One) ☒ UPS ☐ Bus ☐ Other: *3.8c #113*

Sample Condition: ☒ Cool ☐ Intact ☐ Yes ☐ No

CHECKED BY: *[Signature]* (Initials) *VE*

REMARKS:

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.		BILL TO		ANALYSIS REQUEST									
Project Manager: Cliff Brunson		P.O. #:											
Address: P.O. Box 805		Company: OXY											
City: Hobbs		Attn: WADE											
Phone #: 575-397-6388		Address:											
Fax #: 575-397-0397		City:											
Project #:		State:											
Project Name: Copperhead 18-1 SWD (9.1.20)		Zip:											
Project Location:		Phone #:											
Sampler Name: Roger Hernandez		Fax #:											
<small>FOR LAB USE ONLY</small>													
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV	SAMPLING	CL	BTEX	TPH EXT		
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	
HA109322	Bottom 23 @ 2'	G	1										
31	Bottom 24 @ 2'	G	1										
32	Bottom 25 @ 2'	G	1										
33	Bottom 26 @ 2'	G	1										
34	Bottom 27 @ 2'	G	1										
35	Bottom 28 @ 2'	G	1										
36	Bottom 29 @ 2'	G	1										
37	Bottom 30 @ 2'	G	1										
38	Bottom 31 @ 2'	G	1										
39	Bottom 32 @ 2'	G	1										
40	Bottom 33 @ 2'	G	1										

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Relinquished By:	Date: 3-13-21	Received By: [Signature]	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 0838		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			

Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other: 3.8c #113	<input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact	YO
	<input type="checkbox"/> Yes <input type="checkbox"/> No	

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

58

Company Name: BBC International, Inc.		P.O. #:		ANALYSIS REQUEST	
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		Zip:			
Project Name: Copperhead 18-1 Sup (9.1.20)		Phone #:			
Project Location:		Fax #:			
Sampler Name: Roger Hernandez		FOR LAB USE ONLY			
Lab I.D.		Sample I.D.			
H20932		33021			
41 Bottom		33021			
42 Bottom		34021			
43 Bottom		35021			
44 Bottom		36021			
45 Bottom		37021			
46 Bottom		38021			
47 Bottom		39021			
48 Bottom		40021			
49 Bottom		41021			
50 Bottom		42021			
51 Bottom		43021			
52 Bottom		44021			
53 Bottom		45021			
54 Bottom		46021			
55 Bottom		47021			
56 Bottom		48021			
57 Bottom		49021			
58 Bottom		50021			
59 Bottom		51021			
60 Bottom		52021			
61 Bottom		53021			
62 Bottom		54021			
63 Bottom		55021			
64 Bottom		56021			
65 Bottom		57021			
66 Bottom		58021			
67 Bottom		59021			
68 Bottom		60021			
69 Bottom		61021			
70 Bottom		62021			
71 Bottom		63021			
72 Bottom		64021			
73 Bottom		65021			
74 Bottom		66021			
75 Bottom		67021			
76 Bottom		68021			
77 Bottom		69021			
78 Bottom		70021			
79 Bottom		71021			
80 Bottom		72021			
81 Bottom		73021			
82 Bottom		74021			
83 Bottom		75021			
84 Bottom		76021			
85 Bottom		77021			
86 Bottom		78021			
87 Bottom		79021			
88 Bottom		80021			
89 Bottom		81021			
90 Bottom		82021			
91 Bottom		83021			
92 Bottom		84021			
93 Bottom		85021			
94 Bottom		86021			
95 Bottom		87021			
96 Bottom		88021			
97 Bottom		89021			
98 Bottom		90021			
99 Bottom		91021			
100 Bottom		92021			
101 Bottom		93021			
102 Bottom		94021			
103 Bottom		95021			
104 Bottom		96021			
105 Bottom		97021			
106 Bottom		98021			
107 Bottom		99021			
108 Bottom		100021			
109 Bottom		101021			
110 Bottom		102021			
111 Bottom		103021			
112 Bottom		104021			
113 Bottom		105021			
114 Bottom		106021			
115 Bottom		107021			
116 Bottom		108021			
117 Bottom		109021			
118 Bottom		110021			
119 Bottom		111021			
120 Bottom		112021			
121 Bottom		113021			
122 Bottom		114021			
123 Bottom		115021			
124 Bottom		116021			
125 Bottom		117021			
126 Bottom		118021			
127 Bottom		119021			
128 Bottom		120021			
129 Bottom		121021			
130 Bottom		122021			
131 Bottom		123021			
132 Bottom		124021			
133 Bottom		125021			
134 Bottom		126021			
135 Bottom		127021			
136 Bottom		128021			
137 Bottom		129021			
138 Bottom		130021			
139 Bottom		131021			
140 Bottom		132021			
141 Bottom		133021			
142 Bottom		134021			
143 Bottom		135021			
144 Bottom		136021			
145 Bottom		137021			
146 Bottom		138021			
147 Bottom		139021			
148 Bottom		140021			
149 Bottom		141021			
150 Bottom		142021			
151 Bottom		143021			
152 Bottom		144021			
153 Bottom		145021			
154 Bottom		146021			
155 Bottom		147021			
156 Bottom		148021			
157 Bottom		149021			
158 Bottom		150021			
159 Bottom		151021			
160 Bottom		152021			
161 Bottom		153021			
162 Bottom		154021			
163 Bottom		155021			
164 Bottom		156021			
165 Bottom		157021			
166 Bottom		158021			
167 Bottom		159021			
168 Bottom		160021			
169 Bottom		161021			
170 Bottom		162021			
171 Bottom		163021			
172 Bottom		164021			
173 Bottom		165021			
174 Bottom		166021			
175 Bottom		167021			
176 Bottom		168021			
177 Bottom		169021			
178 Bottom		170021			
179 Bottom		171021			
180 Bottom		172021			
181 Bottom		173021			
182 Bottom		174021			
183 Bottom		175021			
184 Bottom		176021			
185 Bottom		177021			
186 Bottom		178021			
187 Bottom		179021			
188 Bottom		180021			
189 Bottom		181021			
190 Bottom		182021			
191 Bottom		183021			
192 Bottom		184021			
193 Bottom		185021			
194 Bottom		186021			
195 Bottom		187021			
196 Bottom		188021			
197 Bottom		189021			
198 Bottom		190021			
199 Bottom		191021			
200 Bottom		192021			
201 Bottom		193021			
202 Bottom		194021			
203 Bottom		195021			
204 Bottom		196021			
205 Bottom		197021			
206 Bottom		198021			
207 Bottom		199021			
208 Bottom		200021			
209 Bottom		201021			
210 Bottom		202021			
211 Bottom		203021			
212 Bottom		204021			
213 Bottom		205021			
214 Bottom		206021			
215 Bottom		207021			
216 Bottom		208021			
217 Bottom		209021			
218 Bottom		210021			
219 Bottom		211021			
220 Bottom		212021			
221 Bottom		213021			
222 Bottom		214021			
223 Bottom		215021			
224 Bottom		216021			
225 Bottom		217021			
226 Bottom		218021			
227 Bottom		219021			
228 Bottom		220021			
229 Bottom		221021			
230 Bottom		222021			
231 Bottom		223021			
232 Bottom		224021			
233 Bottom		225021			
234 Bottom		226021			
235 Bottom		227021			
236 Bottom		228021			
237 Bottom		229021			
238 Bottom		230021			
239 Bottom		231021			
240 Bottom		232021			
241 Bottom		233021			
242 Bottom		234021			
243 Bottom		235021			
244 Bottom		236021			
245 Bottom		237021			
246 Bottom		238021			
247 Bottom		239021			
248 Bottom		240021			
249 Bottom		241021			
250 Bottom		242021			
251 Bottom		243021			
252 Bottom		244021			
253 Bottom		245021			
254 Bottom		246021			
255 Bottom		247021			
256 Bottom		248021			
257 Bottom		249021			
258 Bottom		250021			
259 Bottom		251021			
260 Bottom		252021			
261 Bottom		253021			
262 Bottom		254021			
263 Bottom		255021			
264 Bottom		256021			
265 Bottom		257021			
266 Bottom		258021			
267 Bottom		259021			
268 Bottom		260021			
269 Bottom		261021			
270 Bottom		262021			
271 Bottom		263021			
272 Bottom		264021			
273 Bottom		265021			
274 Bottom		266021			
275 Bottom		267021			
276 Bottom		268021			
277 Bottom		269021			
278 Bottom		270021			
279 Bottom		271021			
280 Bottom		272021			
281 Bottom		273021			
282 Bottom		274021			
283 Bottom		275021			
284 Bottom		276021			
285 Bottom		277021			
286 Bottom		278021			
287 Bottom		279021			
288 Bottom		280021			
289 Bottom		281021			
290 Bottom		282021			
291 Bottom		283021			
292 Bottom		284021			
293 Bottom		285021			
294 Bottom		286021			
295 Bottom		287021			
296 Bottom		288021			
297 Bottom		289021			
298 Bottom		290021			
299 Bottom		291021			
300 Bottom		292021			
301 Bottom		293021			
302 Bottom		294021			
303 Bottom		295021			
304 Bottom		296021			
305 Bottom		297021			
306 Bottom		298021			
307 Bottom		299021			
308 Bottom		300021			
309 Bottom		301021			
310 Bottom		302021			

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										State: NM Zip: 88241									
Phone #: 575-397-6388										Fax #: 575-397-0397									
Project #:										City:									
Project Name: Copperhead 18-1500(9-1-20)										State: Zip:									
Project Location:										Phone #:									
Sampler Name: Roger Hernandez										Fax #:									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING	DATE	TIME	CL	BTEX	TPH EXT					
Ha10923	Bottom 43 e 2	G	1	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:								
51	Bottom 44 e 2	G	1																
52	Bottom 45 e 2	G	1																
53	Bottom 46 e 2	G	1																
54	Bottom 47 e 2	G	1																
55	Bottom 48 e 2	G	1																
56	Bottom 49 e 2	G	1																
57	Bottom 50 e 2	G	1																
58	Bottom 51 e 2	G	1																
59																			

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable services. 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, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 4-13-21	Received By:	Date: 4-13-21	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Time: 0828	Received By:	Time: 0828	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
REMARKS:					
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 3.8 e #113 Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Checked By: (Initials) 3.8 e #113					

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



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Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 321236103350101

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

USGS 321236103350101 24S.33E.17.444414

Lea County, New Mexico
Latitude 32°12'36", Longitude 103°35'01" NAD27
Land-surface elevation 3,573 feet above NAVD88
This well is completed in the Ogallala Formation (121OGLL) 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
1986-03-11		D	97.37			2				U

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

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 92720

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 92720
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved. Report (Remediation Specifications) does not state site excavated to 2 ft bgs, however map and data table indicate as such.	4/20/2022