

Closure Report

1RP-5471

Site Description

Site Name:	West Dollarhide Devonian Unit #102
Company:	Oxy, Permian
Legal Description:	U/L L, Section 33, T24S, R38E
County:	Lea County, NM
GPS Coordinates:	N 32.17232 W -103.07026

Release Data

Date of Release:	3/24/2019
Type of Release:	Produced water and Oil
Source of Release:	Corrosion of a production flow line
Volume of Release:	15 bbls of produced water 1 bbl of oil
Volume Recovered:	0 bbls of produced water 0 bbls of oil

Remediation Specifications

Remediation Parameters:	Excavated the areas of SP3, SP4, SP5, SP7, & SP8 to a depth of 1 foot. Excavated the area of SP1 and SP2 to a depth of 1.5 feet, and excavated SP6 to a depth of 2.5 feet. Bottom confirmation samples including sidewalls have been obtained for all depths every 75 feet. Backfilled entire site with clean soil.
Remediation Activities:	6/2/20 through 6/17/20

Plan Sent to OCD:	6/26/2019	E-mail from Cliff Brunson to Ryan Mann and Dylan Rose-Coss
OCD Approval of Plan:	1/21/2020	E-mail from Victoria Venegas to Cliff Brunson
Plan Sent to SLO:	6/26/2019	E-mail from Cliff Brunson to Ryan Mann
SLO Approval of Plan:	11/18/2019	E-mail from Ryan Mann

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	Lab Summary and Analysis from 6/8/2020	
Depth to Groundwater	USGS Information report	

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.

6/30/2020

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

Latitude N 32.17232 Longitude W-103.07026
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	WDDU #102	Site Type	ACCESS RD/ PRODUCTION FLOW LINE
Date Release Discovered	3/24/19	API# (if applicable)	

Unit Letter	Section	Township	Range	County
L	33	24S	38E	LEA COUNTY, NM

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

Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) <1 BBL	Volume Recovered (bbls) 0 BBLS
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 15 BBLS	Volume Recovered (bbls) 0 BBLS
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

CORROSION OF A PRODUCTION FLOW LINE

Form C-141

State of New Mexico
Oil Conservation Division

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Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Wade Dittrich</u> Title: <u>Environmental Coordinator</u>
Signature: <u></u> Date: <u>4-10-19</u>
email: <u>wade_dittrich@oxy.com</u> Telephone: <u>(575) 390-2828</u>
<u>OCD Only</u>
Received by: _____ Date: _____

Form C-141

State of New Mexico
Oil Conservation Division

Page 6

Incident ID	NAB1912953307
District RP	1RP-5471
Facility ID	fAB1912952440
Application ID	pAB1912952745

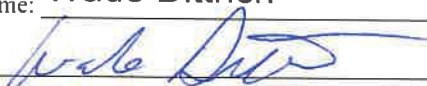
Closure

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

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

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


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

Printed Name: Wade Dittrich Title: Environmental Coordinator
 Signature:  Date: 7-1-2020
 email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: Cristina Eads Date: 07/18/2020

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

Closure Approved by:  Date: 09/15/2020
 Printed Name: Cristina Eads Title: Environmental Specialist

Oxy, West Dollarhide Devonian Unit #102

Confirmation Sample Points

B1, N 32.17186 W 103.07021

B2, N 32.17725 W 103.07026

B3, N 32.17259 W 103.07027

B4, N 32.17285 W 103.07026

SW1, N 32.17201 W 103.07021

SW2, N 32.17209 W 103.07024

SW3, N 32.17235 W 103.07027

SW4, N 32.17246 W 103.07026

SW5, N 32.17269 W 103.07025

SW6, N 32.17275 W 103.07026

Oxy, WDDU #102

Leak Date: 3/24/19
Lea County, NM
1RP-5471

Legend

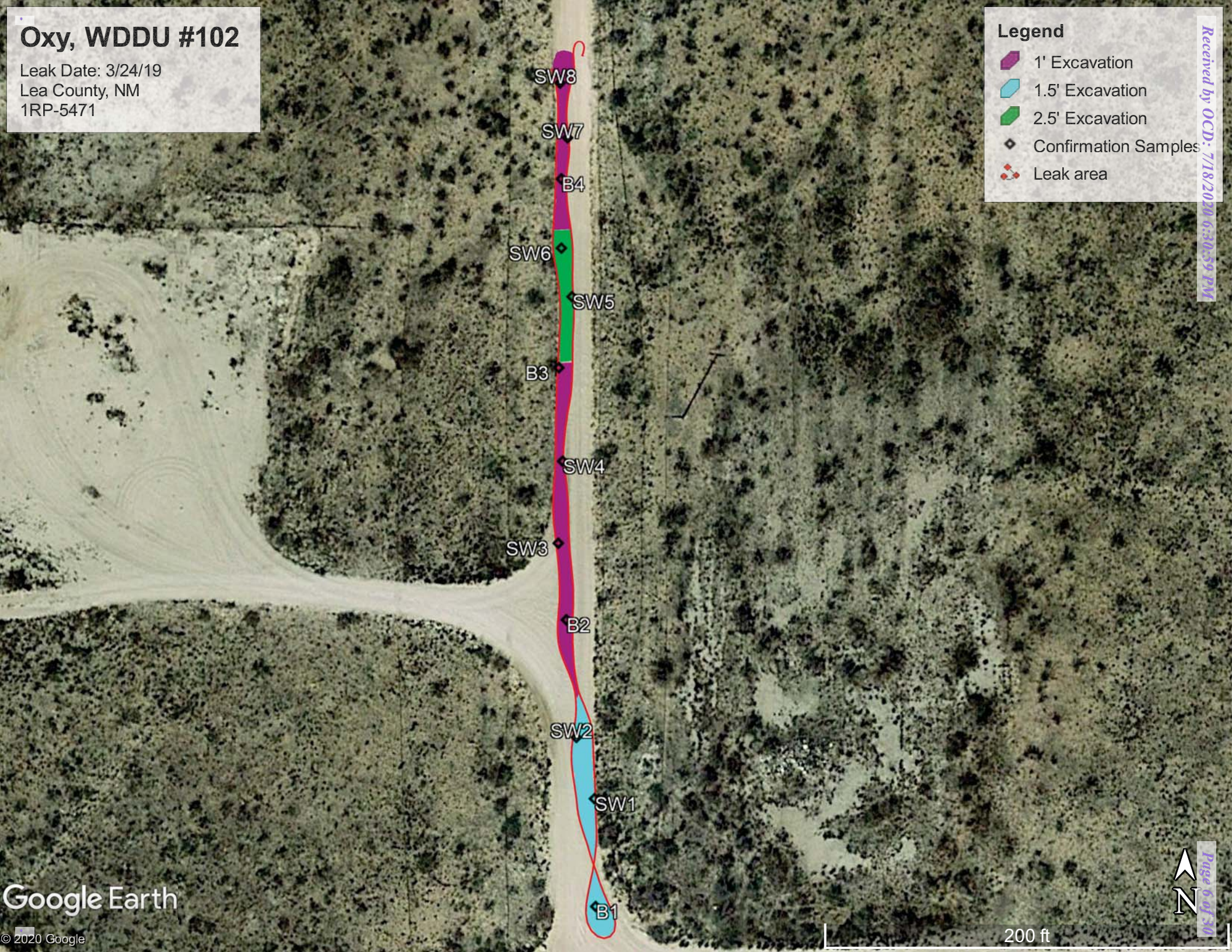
1' Excavation

1.5' Excavation

2.5' Excavation

Confirmation Samples

Leak area









Laboratory Analytical Results Summary
Oxy, WDDU #102 (3-24-19)

		Sample ID	Bottom 1	Bottom 2	Bottom 3	Bottom 4
Analyte	Method	Date	6/8/20	6/8/20	6/8/20	6/8/20
			mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		32.0	<16.0	<16.0	16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample ID	SIDE 1	SIDE 2	SIDE 3	SIDE 4	SIDE 5	SIDE 6	SIDE 7	SIDE 8
Analyte	Method	Date	6/8/20	6/8/20	6/8/20	6/8/20	6/8/20	6/8/20	6/8/20	6/8/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		<16.0	<16.0	32.0	<16.0	<16.0	<16.0	<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0



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

June 09, 2020

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: WEST DOLLARHIDE DEVONIAN #102

Enclosed are the results of analyses for samples received by the laboratory on 06/08/20 16:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/08/2020	Sampling Date:	06/08/2020
Reported:	06/09/2020	Sampling Type:	Soil
Project Name:	WEST DOLLARHIDE DEVONIAN #102	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Kelly Jacobson
Project Location:	OXY		

Sample ID: BOTTOM 1 (H001542-01)

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	06/09/2020	ND	1.96	97.9	2.00	9.72	
Toluene*	<0.050	0.050	06/09/2020	ND	2.10	105	2.00	10.4	
Ethylbenzene*	<0.050	0.050	06/09/2020	ND	1.95	97.3	2.00	9.56	
Total Xylenes*	<0.150	0.150	06/09/2020	ND	5.88	98.0	6.00	7.60	
Total BTEX	<0.300	0.300	06/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/09/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2020	ND	181	90.6	200	6.32	
DRO >C10-C28*	<10.0	10.0	06/09/2020	ND	182	91.0	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/09/2020	ND					

Surrogate: 1-Chlorooctane 85.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.3 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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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:	06/08/2020	Sampling Date:	06/08/2020
Reported:	06/09/2020	Sampling Type:	Soil
Project Name:	WEST DOLLARHIDE DEVONIAN #102	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Kelly Jacobson
Project Location:	OXY		

Sample ID: BOTTOM 2 (H001542-02)

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	06/09/2020	ND	1.96	97.9	2.00	9.72		
Toluene*	<0.050	0.050	06/09/2020	ND	2.10	105	2.00	10.4		
Ethylbenzene*	<0.050	0.050	06/09/2020	ND	1.95	97.3	2.00	9.56		
Total Xylenes*	<0.150	0.150	06/09/2020	ND	5.88	98.0	6.00	7.60		
Total BTEx	<0.300	0.300	06/09/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/09/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2020	ND	181	90.6	200	6.32	
DRO >C10-C28*	<10.0	10.0	06/09/2020	ND	182	91.0	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/09/2020	ND					

Surrogate: 1-Chlorooctane 86.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.2 % 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:	06/08/2020	Sampling Date:	06/08/2020
Reported:	06/09/2020	Sampling Type:	Soil
Project Name:	WEST DOLLARHIDE DEVONIAN #102	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Kelly Jacobson
Project Location:	OXY		

Sample ID: BOTTOM 3 (H001542-03)

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	06/09/2020	ND	1.96	97.9	2.00	9.72	
Toluene*	<0.050	0.050	06/09/2020	ND	2.10	105	2.00	10.4	
Ethylbenzene*	<0.050	0.050	06/09/2020	ND	1.95	97.3	2.00	9.56	
Total Xylenes*	<0.150	0.150	06/09/2020	ND	5.88	98.0	6.00	7.60	
Total BTX	<0.300	0.300	06/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/09/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2020	ND	181	90.6	200	6.32	
DRO >C10-C28*	<10.0	10.0	06/09/2020	ND	182	91.0	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/09/2020	ND					

Surrogate: 1-Chlorooctane 93.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 87.6 % 42.2-156

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*=Accredited Analyte

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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:	06/08/2020	Sampling Date:	06/08/2020
Reported:	06/09/2020	Sampling Type:	Soil
Project Name:	WEST DOLLARHIDE DEVONIAN #102	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Kelly Jacobson
Project Location:	OXY		

Sample ID: BOTTOM 4 (H001542-04)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2020	ND	1.96	97.9	2.00	9.72		
Toluene*	<0.050	0.050	06/09/2020	ND	2.10	105	2.00	10.4		
Ethylbenzene*	<0.050	0.050	06/09/2020	ND	1.95	97.3	2.00	9.56		
Total Xylenes*	<0.150	0.150	06/09/2020	ND	5.88	98.0	6.00	7.60		
Total BTEx	<0.300	0.300	06/09/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/09/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2020	ND	181	90.6	200	6.32	
DRO >C10-C28*	<10.0	10.0	06/09/2020	ND	182	91.0	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/09/2020	ND					

Surrogate: 1-Chlorooctane 86.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.3 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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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:	06/08/2020	Sampling Date:	06/08/2020
Reported:	06/09/2020	Sampling Type:	Soil
Project Name:	WEST DOLLARHIDE DEVONIAN #102	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Kelly Jacobson
Project Location:	OXY		

Sample ID: SIDE 1 (H001542-05)

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	06/09/2020	ND	1.96	97.9	2.00	9.72	
Toluene*	<0.050	0.050	06/09/2020	ND	2.10	105	2.00	10.4	
Ethylbenzene*	<0.050	0.050	06/09/2020	ND	1.95	97.3	2.00	9.56	
Total Xylenes*	<0.150	0.150	06/09/2020	ND	5.88	98.0	6.00	7.60	
Total BTX	<0.300	0.300	06/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/09/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2020	ND	181	90.6	200	6.32	
DRO >C10-C28*	<10.0	10.0	06/09/2020	ND	182	91.0	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/09/2020	ND					

Surrogate: 1-Chlorooctane 90.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 80.2 % 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:	06/08/2020	Sampling Date:	06/08/2020
Reported:	06/09/2020	Sampling Type:	Soil
Project Name:	WEST DOLLARHIDE DEVONIAN #102	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Kelly Jacobson
Project Location:	OXY		

Sample ID: SIDE 2 (H001542-06)

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	06/09/2020	ND	1.96	97.9	2.00	9.72	
Toluene*	<0.050	0.050	06/09/2020	ND	2.10	105	2.00	10.4	
Ethylbenzene*	<0.050	0.050	06/09/2020	ND	1.95	97.3	2.00	9.56	
Total Xylenes*	<0.150	0.150	06/09/2020	ND	5.88	98.0	6.00	7.60	
Total BTX	<0.300	0.300	06/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/09/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2020	ND	181	90.6	200	6.32	
DRO >C10-C28*	<10.0	10.0	06/09/2020	ND	182	91.0	200	4.64	
EXT DRO >C28-C36	<10.0	10.0	06/09/2020	ND					

Surrogate: 1-Chlorooctane 86.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 78.2 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/08/2020	Sampling Date:	06/08/2020
Reported:	06/09/2020	Sampling Type:	Soil
Project Name:	WEST DOLLARHIDE DEVONIAN #102	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Kelly Jacobson
Project Location:	OXY		

Sample ID: SIDE 3 (H001542-07)

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	06/09/2020	ND	1.96	97.9	2.00	9.72	
Toluene*	<0.050	0.050	06/09/2020	ND	2.10	105	2.00	10.4	
Ethylbenzene*	<0.050	0.050	06/09/2020	ND	1.95	97.3	2.00	9.56	
Total Xylenes*	<0.150	0.150	06/09/2020	ND	5.88	98.0	6.00	7.60	
Total BTEX	<0.300	0.300	06/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/09/2020	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2020	ND	185	92.4	200	7.98	
DRO >C10-C28*	<10.0	10.0	06/09/2020	ND	187	93.3	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	06/09/2020	ND					

Surrogate: 1-Chlorooctane 91.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 83.3 % 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:	06/08/2020	Sampling Date:	06/08/2020
Reported:	06/09/2020	Sampling Type:	Soil
Project Name:	WEST DOLLARHIDE DEVONIAN #102	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Kelly Jacobson
Project Location:	OXY		

Sample ID: SIDE 4 (H001542-08)

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	06/09/2020	ND	1.96	97.9	2.00	9.72		
Toluene*	<0.050	0.050	06/09/2020	ND	2.10	105	2.00	10.4		
Ethylbenzene*	<0.050	0.050	06/09/2020	ND	1.95	97.3	2.00	9.56		
Total Xylenes*	<0.150	0.150	06/09/2020	ND	5.88	98.0	6.00	7.60		
Total BTX	<0.300	0.300	06/09/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/09/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2020	ND	185	92.4	200	7.98	
DRO >C10-C28*	<10.0	10.0	06/09/2020	ND	187	93.3	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	06/09/2020	ND					

Surrogate: 1-Chlorooctane 89.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 80.3 % 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:	06/08/2020	Sampling Date:	06/08/2020
Reported:	06/09/2020	Sampling Type:	Soil
Project Name:	WEST DOLLARHIDE DEVONIAN #102	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Kelly Jacobson
Project Location:	OXY		

Sample ID: SIDE 5 (H001542-09)

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	06/09/2020	ND	1.96	97.9	2.00	9.72		
Toluene*	<0.050	0.050	06/09/2020	ND	2.10	105	2.00	10.4		
Ethylbenzene*	<0.050	0.050	06/09/2020	ND	1.95	97.3	2.00	9.56		
Total Xylenes*	<0.150	0.150	06/09/2020	ND	5.88	98.0	6.00	7.60		
Total BTX	<0.300	0.300	06/09/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/09/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/09/2020	ND	185	92.4	200	7.98		
DRO >C10-C28*	<10.0	10.0	06/09/2020	ND	187	93.3	200	4.23		
EXT DRO >C28-C36	<10.0	10.0	06/09/2020	ND						

Surrogate: 1-Chlorooctane 91.0 % 44.3-144

Surrogate: 1-Chlorooctadecane 86.4 % 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:	06/08/2020	Sampling Date:	06/08/2020
Reported:	06/09/2020	Sampling Type:	Soil
Project Name:	WEST DOLLARHIDE DEVONIAN #102	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Kelly Jacobson
Project Location:	OXY		

Sample ID: SIDE 6 (H001542-10)

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	06/09/2020	ND	1.96	97.9	2.00	9.72		
Toluene*	<0.050	0.050	06/09/2020	ND	2.10	105	2.00	10.4		
Ethylbenzene*	<0.050	0.050	06/09/2020	ND	1.95	97.3	2.00	9.56		
Total Xylenes*	<0.150	0.150	06/09/2020	ND	5.88	98.0	6.00	7.60		
Total BTEX	<0.300	0.300	06/09/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/09/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2020	ND	185	92.4	200	7.98	
DRO >C10-C28*	<10.0	10.0	06/09/2020	ND	187	93.3	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	06/09/2020	ND					

Surrogate: 1-Chlorooctane 84.9 % 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:	06/08/2020	Sampling Date:	06/08/2020
Reported:	06/09/2020	Sampling Type:	Soil
Project Name:	WEST DOLLARHIDE DEVONIAN #102	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Kelly Jacobson
Project Location:	OXY		

Sample ID: SIDEWALL 7 (H001542-11)

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	06/09/2020	ND	1.96	97.9	2.00	9.72		
Toluene*	<0.050	0.050	06/09/2020	ND	2.10	105	2.00	10.4		
Ethylbenzene*	<0.050	0.050	06/09/2020	ND	1.95	97.3	2.00	9.56		
Total Xylenes*	<0.150	0.150	06/09/2020	ND	5.88	98.0	6.00	7.60		
Total BTX	<0.300	0.300	06/09/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/09/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2020	ND	185	92.4	200	7.98	
DRO >C10-C28*	<10.0	10.0	06/09/2020	ND	187	93.3	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	06/09/2020	ND					

Surrogate: 1-Chlorooctane 89.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 80.1 % 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:	06/08/2020	Sampling Date:	06/08/2020
Reported:	06/09/2020	Sampling Type:	Soil
Project Name:	WEST DOLLARHIDE DEVONIAN #102	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Kelly Jacobson
Project Location:	OXY		

Sample ID: SIDEWALL 8 (H001542-12)

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	06/09/2020	ND	1.96	97.9	2.00	9.72	
Toluene*	<0.050	0.050	06/09/2020	ND	2.10	105	2.00	10.4	
Ethylbenzene*	<0.050	0.050	06/09/2020	ND	1.95	97.3	2.00	9.56	
Total Xylenes*	<0.150	0.150	06/09/2020	ND	5.88	98.0	6.00	7.60	
Total BTX	<0.300	0.300	06/09/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/09/2020	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2020	ND	185	92.4	200	7.98	
DRO >C10-C28*	<10.0	10.0	06/09/2020	ND	187	93.3	200	4.23	
EXT DRO >C28-C36	<10.0	10.0	06/09/2020	ND					

Surrogate: 1-Chlorooctane 88.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 81.3 % 42.2-156

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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 "C. D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CARDINAL Laboratories

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 2

Company Name: BISC INTERNATIONAL				BILL TO				ANALYSIS REQUEST																			
Project Manager: CLIFF BRUNSON				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEx</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CL-</div> </div>																			
Address: 1324 W. MARLAND				Company:																							
City: Hobbs State: NM Zip: 88240				Attn: Q																							
Phone #: 575) 3976388 Fax #: 575) 3970397				Address: +																							
Project #: _____ Project Owner: _____				City: OC																							
Project Name: WEST Dallas Hide Devonian #102				State: _____ Zip: _____																							
Project Location: _____				Phone #: _____																							
Sampler Name: ROGER HERNANDEZ				Fax #: _____																							
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME													
H001542																											
1	BOTTOM 1	G	1			✓				✓			6-8-20	10:00	✓	✓	✓										
2	BOTTOM 2	G	1			✓				✓			6-8-20	10:15	✓	✓	✓										
3	BOTTOM 3	G	1			✓				✓			6-8-20	10:25	✓	✓	✓										
4	BOTTOM 4	G	1			✓				✓			6-8-20	10:45	✓	✓	✓										
5	SIDE 1	G	1			✓				✓			6-8-20	11:00	✓	✓	✓										
6	SIDE 2	G	1			✓				✓			6-8-20	11:15	✓	✓	✓										
7	SIDE 3	G	1			✓				✓			6-8-20	11:30	✓	✓	✓										
8	SIDE 4	G	1			✓				✓			6-8-20	11:45	✓	✓	✓										
9	SIDE 5	G	1			✓				✓			6-8-20	12:00	✓	✓	✓										
10	SIDE 6	G	1			✓				✓			6-8-20	1:00	✓	✓	✓										

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Relinquished By:	Date: 6-8-20 Time: 1645	Received By:	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By:	Date: _____ Time: _____	Received By: _____	All Results are emailed. Please provide Email address:
Delivered By: (Circle One)			REMARKS:
Observed Temp. °C: 7.3°C	Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) HS	Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/>
Corrected Temp. °C: _____	Thermometer ID #97	Correction Factor ±0.4°C	Bacteria (only) Sample Condition: <input type="checkbox"/> Yes <input type="checkbox"/> No
Sampler - UPS - Bus - Other:	Corrected Temp. °C: _____	Correction Factor ±0.4°C	Observed Temp. °C: _____
			Corrected Temp. °C: _____

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Agency code = usgs
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USGS 320946103040101 24S.38E.33.344114

Lea County, New Mexico
Latitude 32°09'46", Longitude 103°04'01" NAD27
Land-surface elevation 3,157 feet above NAVD88
The depth of the well is 765 feet below land surface.
This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1968-02-22		D	590.42			2	R		U	
1970-12-15		D	415.35			2	R		U	
1976-01-14		D	329.11			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
Status	R	Site had been pumped recently.
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for New Mexico: Water Levels

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