

Closure Report

Site Description

Site Name:	Cedar Canyon 15-1 SWD Facility
Company:	Oxy, Permian
Legal Description:	U/L D, Section 22, T24S, R29E
County:	Eddy County, NM
GPS Coordinates:	N 32.20962 W -103.97687

Release Data

Date of Release:	10/13/2019
Type of Release:	Produced water
Source of Release:	PPL Corrosion
Volume of Release:	10 BBLS
Volume Recovered:	0 BBLS

Remediation Specifications

Remediation Parameters:	Excavated leak areas SP1, SP7, & SP10 to a depth of 4 feet, the leak area near SP8 to a depth of 3 feet, and the leak area near SP9 to a depth of 1 foot. Bottom and sidewall confirmation samples have been collected every 100 feet. Entire site was backfilled with clean soil.
Remediation Activities:	8/19/20 to 9/18/20

Plan Sent to OCD:	2/11/2020	Time and date stamped pages 3-5 of C-141
OCD Approval of Plan:	3/18/2020	C-141 pages 3-5 signed by Christina Eads
Plan Sent to BLM:	N/A	
BLM Approval of Plan:	N/A	

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 9/10/20	
Depth to Groundwater	USGS Info	

Request for Closure

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

Cliff Brunson, President of BBC International Inc.

12/8/2020

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 32.20962 Longitude W-103.97687
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	CEDAR CANYON 15-1 SWD DISPOSAL FACILITY	Site Type	DISPOSAL FACILITY
Date Release Discovered	10/13/19	API# (if applicable)	N/A

Unit Letter	Section	Township	Range	County
D	22	24S	29E	EDDY COUNTY, NM

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) <u>10 BBLS</u>	Volume Recovered (bbls) <u>0 BBLS</u>
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" 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

PPL CORROSION

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>102979</u>
email: <u>wade_dittrich@oxy.com</u>	Telephone: <u>(575) 390-2828</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

Form C-141

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State of New Mexico
Oil Conservation Division

Incident ID	NRM20000244253
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: 9-16-2020
email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: Cristina Eads Date: 12/11/2020

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: 02/17/2021
Printed Name: Cristina Eads Title: Environmental Specialist

Oxy Cedar Canyon 15-1 SWD

Leak Date: 10-13-2019
Eddy County, NM
Incident ID: NRM2000244253

Legend

1' Excavation

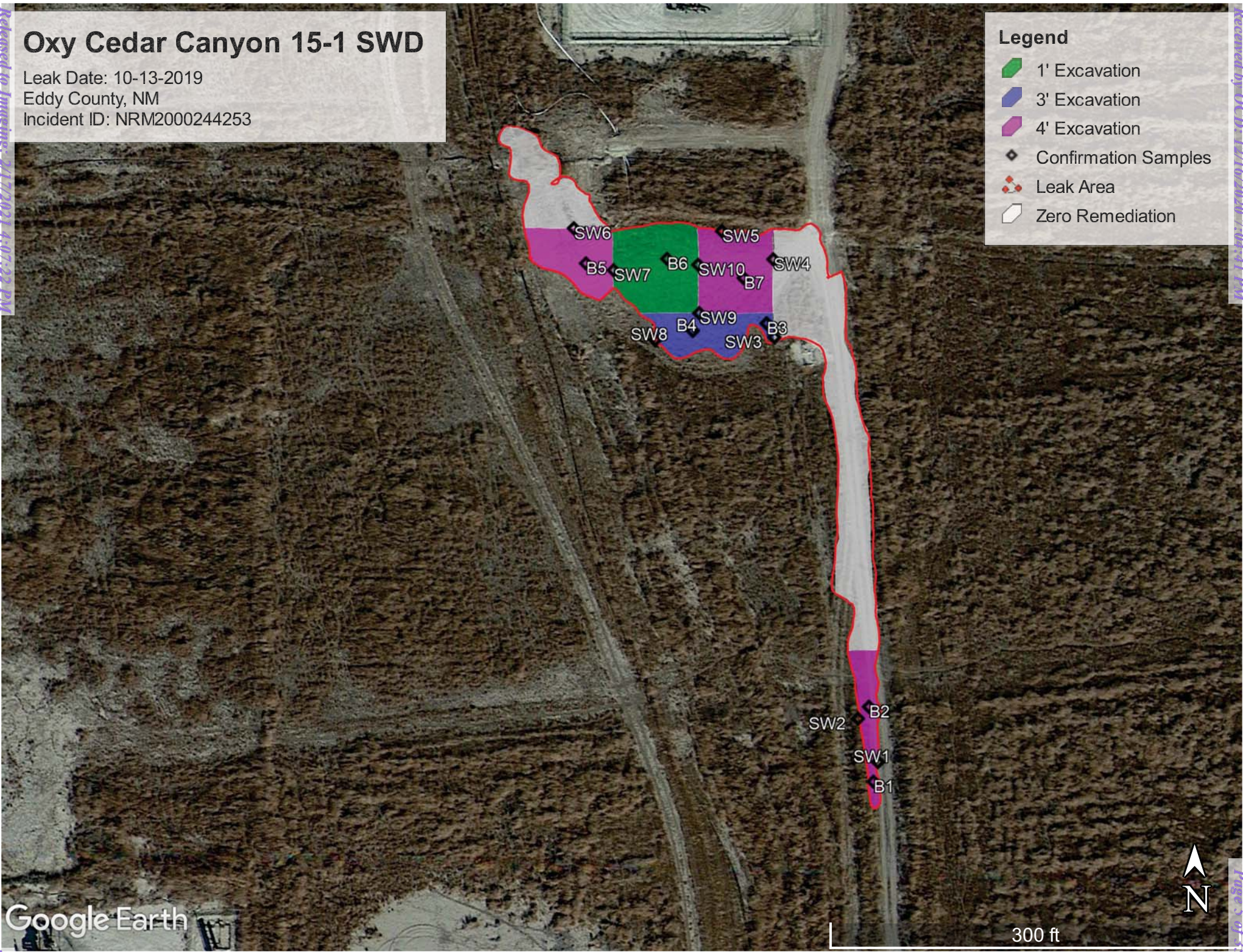
3' Excavation

4' Excavation

Confirmation Samples

Leak Area

Zero Remediation



Oxy, Cedar Canyon 15-1 SWD (**10-13-19**)

Confirmation Sample points

B1, N 32.20881 W 103.97681

B2, N 32.20896 W 103.97682

B3, N 32.20973 W 103.97706

B4, N 32.20971 W 103.97723

B5, N 32.20985 W 103.97749

B6, N 32.20986 W 103.97729

B7, N 32.20982 W 103.97711

SW1, N 32.20885 W 103.97679

SW2, N 32.20894 W 103.97684

SW3, N 32.20970 W 103.97704

SW4, N 32.20985 W 103.97704

SW5, N 32.20991 W 103.97716

SW6, N 32.20992 W 103.97751

SW7, N 32.20983 W 103.97742

SW8, N 32.20969 W 103.97732

SW9, N 32.20975 W 103.97722

SW10, N 32.20984 W 103.97722









Laboratory Analytical Results Summary
Oxy, Cedar Canyon 15-1 SWD 10-13-19

		Sample ID	B1	B2	B3	B4	B5	B6	B7
Analyte	Method	Date	9/10/20	9/10/20	9/10/20	9/10/20	9/10/20	9/10/20	9/10/20
			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
Toluene	BTEX 8021B		<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
Total Xylenes	BTEX 8021B		<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
Chloride	SM4500Cl-B		16.0	128	96.0	96.0	96.0	32.0	48.0
GRO	TPH 8015M		<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
EXT DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0	<10.0	<10.0

		Sample ID	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8	SW9	SW10
Analyte	Method	Date	9/10/20	9/10/20	9/10/20	9/10/20	9/10/20	9/10/20	9/10/20	9/10/20	9/10/20	9/10/20
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		16.0	64.0	32.0	<16.0	80.0	32.0	48.0	16.0	144	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



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

September 14, 2020

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CEDAR CANYON 15-1 SWD

Enclosed are the results of analyses for samples received by the laboratory on 09/11/20 8:17.

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, appearing to read "Mike Snyder", is written over a light blue horizontal line.

Mike Snyder For 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:	09/11/2020	Sampling Date:	09/10/2020
Reported:	09/14/2020	Sampling Type:	Soil
Project Name:	CEDAR CANYON 15-1 SWD	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: BOTTOM 1 (H002408-01)

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	09/11/2020	ND	2.01	101	2.00	0.0766	
Toluene*	<0.050	0.050	09/11/2020	ND	2.05	102	2.00	0.00424	
Ethylbenzene*	<0.050	0.050	09/11/2020	ND	2.01	101	2.00	0.280	
Total Xylenes*	<0.150	0.150	09/11/2020	ND	5.78	96.3	6.00	0.305	
Total BTX	<0.300	0.300	09/11/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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	16.0	16.0	09/11/2020	ND	416	104	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	09/11/2020	ND	172	85.8	200	10.3	
DRO >C10-C28*	<10.0	10.0	09/11/2020	ND	180	90.2	200	8.40	
EXT DRO >C28-C36	<10.0	10.0	09/11/2020	ND					

Surrogate: 1-Chlorooctane 95.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 99.1 % 42.2-156

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For 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:	09/11/2020	Sampling Date:	09/10/2020
Reported:	09/14/2020	Sampling Type:	Soil
Project Name:	CEDAR CANYON 15-1 SWD	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: BOTTOM 2 (H002408-02)

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	09/11/2020	ND	2.01	101	2.00	0.0766		
Toluene*	<0.050	0.050	09/11/2020	ND	2.05	102	2.00	0.00424		
Ethylbenzene*	<0.050	0.050	09/11/2020	ND	2.01	101	2.00	0.280		
Total Xylenes*	<0.150	0.150	09/11/2020	ND	5.78	96.3	6.00	0.305		
Total BTEx	<0.300	0.300	09/11/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 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	128	16.0	09/11/2020	ND	416	104	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	09/11/2020	ND	172	85.8	200	10.3	
DRO >C10-C28*	<10.0	10.0	09/11/2020	ND	180	90.2	200	8.40	
EXT DRO >C28-C36	<10.0	10.0	09/11/2020	ND					

Surrogate: 1-Chlorooctane 92.6 % 44.3-144

Surrogate: 1-Chlorooctadecane 96.6 % 42.2-156

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Mike Snyder For 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: 09/11/2020
 Reported: 09/14/2020
 Project Name: CEDAR CANYON 15-1 SWD
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO NM

Sampling Date: 09/10/2020
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: BOTTOM 3 (H002408-03)

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	09/11/2020	ND	2.01	101	2.00	0.0766	
Toluene*	<0.050	0.050	09/11/2020	ND	2.05	102	2.00	0.00424	
Ethylbenzene*	<0.050	0.050	09/11/2020	ND	2.01	101	2.00	0.280	
Total Xylenes*	<0.150	0.150	09/11/2020	ND	5.78	96.3	6.00	0.305	
Total BTX	<0.300	0.300	09/11/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 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	96.0	16.0	09/11/2020	ND	416	104	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	09/11/2020	ND	172	85.8	200	10.3	
DRO >C10-C28*	<10.0	10.0	09/11/2020	ND	180	90.2	200	8.40	
EXT DRO >C28-C36	<10.0	10.0	09/11/2020	ND					

Surrogate: 1-Chlorooctane 98.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 100 % 42.2-156

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Mike Snyder For 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:	09/11/2020	Sampling Date:	09/10/2020
Reported:	09/14/2020	Sampling Type:	Soil
Project Name:	CEDAR CANYON 15-1 SWD	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: BOTTOM 4 (H002408-04)

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	09/11/2020	ND	2.01	101	2.00	0.0766		
Toluene*	<0.050	0.050	09/11/2020	ND	2.05	102	2.00	0.00424		
Ethylbenzene*	<0.050	0.050	09/11/2020	ND	2.01	101	2.00	0.280		
Total Xylenes*	<0.150	0.150	09/11/2020	ND	5.78	96.3	6.00	0.305		
Total BTX	<0.300	0.300	09/11/2020	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	96.0	16.0	09/11/2020	ND	416	104	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	09/11/2020	ND	172	85.8	200	10.3	
DRO >C10-C28*	<10.0	10.0	09/11/2020	ND	180	90.2	200	8.40	
EXT DRO >C28-C36	<10.0	10.0	09/11/2020	ND					

Surrogate: 1-Chlorooctane 98.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 104 % 42.2-156

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Mike Snyder For 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:	09/11/2020	Sampling Date:	09/10/2020
Reported:	09/14/2020	Sampling Type:	Soil
Project Name:	CEDAR CANYON 15-1 SWD	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: BOTTOM 5 (H002408-05)

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	09/11/2020	ND	2.01	101	2.00	0.0766		
Toluene*	<0.050	0.050	09/11/2020	ND	2.05	102	2.00	0.00424		
Ethylbenzene*	<0.050	0.050	09/11/2020	ND	2.01	101	2.00	0.280		
Total Xylenes*	<0.150	0.150	09/11/2020	ND	5.78	96.3	6.00	0.305		
Total BTX	<0.300	0.300	09/11/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 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	96.0	16.0	09/11/2020	ND	416	104	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	09/11/2020	ND	172	85.8	200	10.3	
DRO >C10-C28*	<10.0	10.0	09/11/2020	ND	180	90.2	200	8.40	
EXT DRO >C28-C36	<10.0	10.0	09/11/2020	ND					

Surrogate: 1-Chlorooctane 92.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 93.7 % 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:	09/11/2020	Sampling Date:	09/10/2020
Reported:	09/14/2020	Sampling Type:	Soil
Project Name:	CEDAR CANYON 15-1 SWD	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: BOTTOM 6 (H002408-06)

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	09/11/2020	ND	2.01	101	2.00	0.0766	
Toluene*	<0.050	0.050	09/11/2020	ND	2.05	102	2.00	0.00424	
Ethylbenzene*	<0.050	0.050	09/11/2020	ND	2.01	101	2.00	0.280	
Total Xylenes*	<0.150	0.150	09/11/2020	ND	5.78	96.3	6.00	0.305	
Total BTX	<0.300	0.300	09/11/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 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	09/11/2020	ND	416	104	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	09/11/2020	ND	172	85.8	200	10.3	
DRO >C10-C28*	<10.0	10.0	09/11/2020	ND	180	90.2	200	8.40	
EXT DRO >C28-C36	<10.0	10.0	09/11/2020	ND					

Surrogate: 1-Chlorooctane 97.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 100 % 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:	09/11/2020	Sampling Date:	09/10/2020
Reported:	09/14/2020	Sampling Type:	Soil
Project Name:	CEDAR CANYON 15-1 SWD	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: BOTTOM 7 (H002408-07)

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	09/11/2020	ND	2.01	101	2.00	0.0766		
Toluene*	<0.050	0.050	09/11/2020	ND	2.05	102	2.00	0.00424		
Ethylbenzene*	<0.050	0.050	09/11/2020	ND	2.01	101	2.00	0.280		
Total Xylenes*	<0.150	0.150	09/11/2020	ND	5.78	96.3	6.00	0.305		
Total BTEx	<0.300	0.300	09/11/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 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	48.0	16.0	09/11/2020	ND	416	104	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	09/11/2020	ND	172	85.8	200	10.3	
DRO >C10-C28*	<10.0	10.0	09/11/2020	ND	180	90.2	200	8.40	
EXT DRO >C28-C36	<10.0	10.0	09/11/2020	ND					

Surrogate: 1-Chlorooctane 101 % 44.3-144

Surrogate: 1-Chlorooctadecane 104 % 42.2-156

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Analytical Results For:

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 Fax To: (575) 397-0397

Received:	09/11/2020	Sampling Date:	09/10/2020
Reported:	09/14/2020	Sampling Type:	Soil
Project Name:	CEDAR CANYON 15-1 SWD	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SIDEWALL 1 (H002408-08)

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	09/11/2020	ND	2.01	101	2.00	0.0766	
Toluene*	<0.050	0.050	09/11/2020	ND	2.05	102	2.00	0.00424	
Ethylbenzene*	<0.050	0.050	09/11/2020	ND	2.01	101	2.00	0.280	
Total Xylenes*	<0.150	0.150	09/11/2020	ND	5.78	96.3	6.00	0.305	
Total BTX	<0.300	0.300	09/11/2020	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	16.0	16.0	09/11/2020	ND	416	104	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	09/11/2020	ND	172	85.8	200	10.3	
DRO >C10-C28*	<10.0	10.0	09/11/2020	ND	180	90.2	200	8.40	
EXT DRO >C28-C36	<10.0	10.0	09/11/2020	ND					

Surrogate: 1-Chlorooctane 94.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 97.7 % 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:	09/11/2020	Sampling Date:	09/10/2020
Reported:	09/14/2020	Sampling Type:	Soil
Project Name:	CEDAR CANYON 15-1 SWD	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SIDEWALL 2 (H002408-09)

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	09/11/2020	ND	2.01	101	2.00	0.0766	
Toluene*	<0.050	0.050	09/11/2020	ND	2.05	102	2.00	0.00424	
Ethylbenzene*	<0.050	0.050	09/11/2020	ND	2.01	101	2.00	0.280	
Total Xylenes*	<0.150	0.150	09/11/2020	ND	5.78	96.3	6.00	0.305	
Total BTX	<0.300	0.300	09/11/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 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	64.0	16.0	09/11/2020	ND	416	104	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	09/11/2020	ND	172	85.8	200	10.3	
DRO >C10-C28*	<10.0	10.0	09/11/2020	ND	180	90.2	200	8.40	
EXT DRO >C28-C36	<10.0	10.0	09/11/2020	ND					

Surrogate: 1-Chlorooctane 99.4 % 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:	09/11/2020	Sampling Date:	09/10/2020
Reported:	09/14/2020	Sampling Type:	Soil
Project Name:	CEDAR CANYON 15-1 SWD	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SIDEWALL 3 (H002408-10)

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	09/11/2020	ND	2.01	101	2.00	0.0766	
Toluene*	<0.050	0.050	09/11/2020	ND	2.05	102	2.00	0.00424	
Ethylbenzene*	<0.050	0.050	09/11/2020	ND	2.01	101	2.00	0.280	
Total Xylenes*	<0.150	0.150	09/11/2020	ND	5.78	96.3	6.00	0.305	
Total BTX	<0.300	0.300	09/11/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 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	09/11/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2020	ND	172	85.8	200	10.3	
DRO >C10-C28*	<10.0	10.0	09/11/2020	ND	180	90.2	200	8.40	
EXT DRO >C28-C36	<10.0	10.0	09/11/2020	ND					

Surrogate: 1-Chlorooctane 99.3 % 44.3-144

Surrogate: 1-Chlorooctadecane 101 % 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:	09/11/2020	Sampling Date:	09/10/2020
Reported:	09/14/2020	Sampling Type:	Soil
Project Name:	CEDAR CANYON 15-1 SWD	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SIDEWALL 4 (H002408-11)

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	09/11/2020	ND	2.01	101	2.00	0.0766	
Toluene*	<0.050	0.050	09/11/2020	ND	2.05	102	2.00	0.00424	
Ethylbenzene*	<0.050	0.050	09/11/2020	ND	2.01	101	2.00	0.280	
Total Xylenes*	<0.150	0.150	09/11/2020	ND	5.78	96.3	6.00	0.305	
Total BTX	<0.300	0.300	09/11/2020	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	<16.0	16.0	09/11/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2020	ND	172	85.8	200	10.3	
DRO >C10-C28*	<10.0	10.0	09/11/2020	ND	180	90.2	200	8.40	
EXT DRO >C28-C36	<10.0	10.0	09/11/2020	ND					

Surrogate: 1-Chlorooctane 90.2 % 44.3-144

Surrogate: 1-Chlorooctadecane 91.9 % 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: 09/11/2020
 Reported: 09/14/2020
 Project Name: CEDAR CANYON 15-1 SWD
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO NM

Sampling Date: 09/10/2020
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SIDEWALL 5 (H002408-12)

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	09/11/2020	ND	2.01	101	2.00	0.0766	
Toluene*	<0.050	0.050	09/11/2020	ND	2.05	102	2.00	0.00424	
Ethylbenzene*	<0.050	0.050	09/11/2020	ND	2.01	101	2.00	0.280	
Total Xylenes*	<0.150	0.150	09/11/2020	ND	5.78	96.3	6.00	0.305	
Total BTX	<0.300	0.300	09/11/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 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	80.0	16.0	09/11/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2020	ND	172	85.8	200	10.3	
DRO >C10-C28*	<10.0	10.0	09/11/2020	ND	180	90.2	200	8.40	
EXT DRO >C28-C36	<10.0	10.0	09/11/2020	ND					

Surrogate: 1-Chlorooctane 89.8 % 44.3-144

Surrogate: 1-Chlorooctadecane 93.2 % 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: 09/11/2020
 Reported: 09/14/2020
 Project Name: CEDAR CANYON 15-1 SWD
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO NM

Sampling Date: 09/10/2020
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SIDEWALL 6 (H002408-13)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2020	ND	2.01	101	2.00	0.0766	
Toluene*	<0.050	0.050	09/11/2020	ND	2.05	102	2.00	0.00424	
Ethylbenzene*	<0.050	0.050	09/11/2020	ND	2.01	101	2.00	0.280	
Total Xylenes*	<0.150	0.150	09/11/2020	ND	5.78	96.3	6.00	0.305	
Total BTX	<0.300	0.300	09/11/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 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	32.0	16.0	09/11/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2020	ND	172	85.8	200	10.3	
DRO >C10-C28*	<10.0	10.0	09/11/2020	ND	180	90.2	200	8.40	
EXT DRO >C28-C36	<10.0	10.0	09/11/2020	ND					

Surrogate: 1-Chlorooctane 97.1 % 44.3-144

Surrogate: 1-Chlorooctadecane 100 % 42.2-156

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Mike Snyder For 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:	09/11/2020	Sampling Date:	09/10/2020
Reported:	09/14/2020	Sampling Type:	Soil
Project Name:	CEDAR CANYON 15-1 SWD	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SIDEWALL 7 (H002408-14)

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	09/11/2020	ND	2.01	101	2.00	0.0766	
Toluene*	<0.050	0.050	09/11/2020	ND	2.05	102	2.00	0.00424	
Ethylbenzene*	<0.050	0.050	09/11/2020	ND	2.01	101	2.00	0.280	
Total Xylenes*	<0.150	0.150	09/11/2020	ND	5.78	96.3	6.00	0.305	
Total BTX	<0.300	0.300	09/11/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 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	48.0	16.0	09/11/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2020	ND	172	85.8	200	10.3	
DRO >C10-C28*	<10.0	10.0	09/11/2020	ND	180	90.2	200	8.40	
EXT DRO >C28-C36	<10.0	10.0	09/11/2020	ND					

Surrogate: 1-Chlorooctane 89.7 % 44.3-144

Surrogate: 1-Chlorooctadecane 95.2 % 42.2-156

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Analytical Results For:

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

Received: 09/11/2020
 Reported: 09/14/2020
 Project Name: CEDAR CANYON 15-1 SWD
 Project Number: NONE GIVEN
 Project Location: OXY - EDDY CO NM

Sampling Date: 09/10/2020
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SIDEWALL 8 (H002408-15)

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	09/11/2020	ND	2.01	101	2.00	0.0766		
Toluene*	<0.050	0.050	09/11/2020	ND	2.05	102	2.00	0.00424		
Ethylbenzene*	<0.050	0.050	09/11/2020	ND	2.01	101	2.00	0.280		
Total Xylenes*	<0.150	0.150	09/11/2020	ND	5.78	96.3	6.00	0.305		
Total BTX	<0.300	0.300	09/11/2020	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	16.0	16.0	09/11/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2020	ND	172	85.8	200	10.3	
DRO >C10-C28*	<10.0	10.0	09/11/2020	ND	180	90.2	200	8.40	
EXT DRO >C28-C36	<10.0	10.0	09/11/2020	ND					

Surrogate: 1-Chlorooctane 103 % 44.3-144

Surrogate: 1-Chlorooctadecane 107 % 42.2-156

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Mike Snyder For 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:	09/11/2020	Sampling Date:	09/10/2020
Reported:	09/14/2020	Sampling Type:	Soil
Project Name:	CEDAR CANYON 15-1 SWD	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SIDEWALL 9 (H002408-16)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/11/2020	ND	2.01	101	2.00	0.0766		
Toluene*	<0.050	0.050	09/11/2020	ND	2.05	102	2.00	0.00424		
Ethylbenzene*	<0.050	0.050	09/11/2020	ND	2.01	101	2.00	0.280		
Total Xylenes*	<0.150	0.150	09/11/2020	ND	5.78	96.3	6.00	0.305		
Total BTEx	<0.300	0.300	09/11/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 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	144	16.0	09/11/2020	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2020	ND	172	85.8	200	10.3	
DRO >C10-C28*	<10.0	10.0	09/11/2020	ND	180	90.2	200	8.40	
EXT DRO >C28-C36	<10.0	10.0	09/11/2020	ND					

Surrogate: 1-Chlorooctane 99.4 % 44.3-144

Surrogate: 1-Chlorooctadecane 105 % 42.2-156

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Mike Snyder For 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:	09/11/2020	Sampling Date:	09/10/2020
Reported:	09/14/2020	Sampling Type:	Soil
Project Name:	CEDAR CANYON 15-1 SWD	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - EDDY CO NM		

Sample ID: SIDEWALL 10 (H002408-17)

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	09/11/2020	ND	2.01	101	2.00	0.0766		
Toluene*	<0.050	0.050	09/11/2020	ND	2.05	102	2.00	0.00424		
Ethylbenzene*	<0.050	0.050	09/11/2020	ND	2.01	101	2.00	0.280		
Total Xylenes*	<0.150	0.150	09/11/2020	ND	5.78	96.3	6.00	0.305		
Total BTEx	<0.300	0.300	09/11/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 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	09/11/2020	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/11/2020	ND	172	85.8	200	10.3	
DRO >C10-C28*	<10.0	10.0	09/11/2020	ND	180	90.2	200	8.40	
EXT DRO >C28-C36	<10.0	10.0	09/11/2020	ND					

Surrogate: 1-Chlorooctane 100 % 44.3-144

Surrogate: 1-Chlorooctadecane 107 % 42.2-156

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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 "Mike Snyder", is written over a horizontal line.

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager


CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>BBC International</u>				BILL TO				ANALYSIS REQUEST											
Project Manager: <u>Cliff Brunson</u>				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center; justify-content: 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);">EXT</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CL-</div> </div>											
Address: <u>1324 W. MARLAND</u>				Company:															
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>				Attn:															
Phone #: <u>505 3976388</u> Fax #:				Address:															
Project #: _____ Project Owner: <u>OKY</u>				City:															
Project Name: <u>CEDAR CANYON 15-1 SWD</u>				State: _____ Zip: _____															
Project Location:				Phone #:															
Sampler Name: <u>ROGER HERNANDEZ</u>				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	GRAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.		SAMPLING									
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME					
<u>H002408</u>																			
1	BOTTOM 1	G	✓	✓		✓				✓			9-10-20 945		✓	✓			
2	BOTTOM 2	G	✓	✓		✓				✓			9-10-20 1000		✓	✓			
3	BOTTOM 3	G	✓	✓		✓				✓			9-10-20 1015		✓	✓			
4	BOTTOM 4	G	✓	✓		✓				✓			9-10-20 1030		✓	✓			
5	BOTTOM 5	G	✓	✓		✓				✓			9-10-20 1045		✓	✓			
6	BOTTOM 6	G	✓	✓		✓				✓			9-10-20 1100		✓	✓			
7	BOTTOM 7	G	✓	✓		✓				✓			9-10-20 1120		✓	✓			
8	SIDEWALL 1	G	✓	✓		✓				✓			9-10-20 1150		✓	✓			
9	SIDEWALL 2	G	✓	✓		✓				✓			9-10-20 1200		✓	✓			
10	SIDEWALL 3	G	✓	✓		✓				✓			9-10-20 1210		✓	✓			

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Relinquished By: <u>Roger Hernandez</u>	Date: <u>9-11-20</u>	Received By: <u>Amara Aldridge</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <u>8:15</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		<div style="font-size: 2em; font-weight: bold;">RUSH!</div>	
Delivered By: (Circle One)				
Sampler - UPS - Bus - Other: <u>14.8°C #113</u>	Sample Condition	CHECKED BY: (Initials)		
	Cool <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2/2

Company Name:				BILL TO				ANALYSIS REQUEST																																	
Project Manager:				P.O. #:																																					
Address:				Company:																																					
City:		State:		Zip:		Attn:																																			
Phone #:		Fax #:		Address:		City:																																			
Project #:		Project Owner:		State:		Zip:																																			
Project Name:				Phone #:																																					
Project Location:				Fax #:																																					
Sampler Name:																																									
FOR LAB USE ONLY																																									
Lab I.D.		Sample I.D.		(GIRAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING																													
								GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME													
H002408				G		1						✓								✓						9.10.20		130													
11		Side wall		G		1						✓								✓						9.10.20		145													
12		Side wall		G		1						✓								✓						9.10.20		200													
13		Side wall		G		1						✓								✓						9.10.20		210													
14		Side wall		G		1						✓								✓						9.10.20		215													
15		Side wall		G		1						✓								✓						9.10.20		230													
16		Side wall		G		1						✓								✓						9.10.20		245													
17		Side wall		G		1						✓								✓						9.10.20		245													

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Relinquished By: <i>Roger Hernandez</i>		Date: <i>9.11.20</i>	Received By: <i>Jamara Liddick</i>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
		Time: <i>8:17</i>			All Results are emailed. Please provide Email address:	
Relinquished By:		Date:	Received By:		REMARKS:	
		Time:				
Delivered By: (Circle One)		Observed Temp. °C <i>14.8</i>	Sample Condition Cool Intact	CHECKED BY: (Initials) <i>TD</i>	Turnaround Time:	Standard <input type="checkbox"/> Bacteria (only) <input checked="" type="checkbox"/> Sample Condition
Sampler - UPS - Bus - Other:		Corrected Temp. °C	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Thermometer ID #113	<input checked="" type="checkbox"/> Cool Intact Observed Temp. °C
			<input checked="" type="checkbox"/> No <input type="checkbox"/> No		Correction Factor None	<input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C



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USGS Water Resources

Data Category:
Groundwater

Geographic Area:
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Groundwater levels for New Mexico

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site_no list =

- 321355104012001

Minimum number of levels = 1
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USGS 321355104012001 24S.29E.07.14444

Eddy County, New Mexico
Latitude 32°13'55", Longitude 104°01'20" NAD27
Land-surface elevation 2,983 feet above NAVD88
The depth of the well is 160 feet below land surface.
This well is completed in the Castile Formation (312CSTL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1983-02-01		D	47.14				2		U	
1987-10-16		D	51.84				2		U	
1988-02-11		D	52.19				2		U	
1992-10-20		D	51.78				2		S	

Explanation

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

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Title: Groundwater for New Mexico: Water Levels

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

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

Page Last Modified: 2019-10-18 11:26:54 EDT

0.48 0.43 nadww01

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
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District III
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Phone:(505) 334-6178 Fax:(505) 334-6170
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 11882

CONDITIONS OF APPROVAL

Operator:	OXY USA INC	P.O. Box 4294	Houston, TX772104294	OGRID:	16696	Action Number:	11882	Action Type:	C-141
OCD Reviewer									Condition
ceads									None