



## **DELINEATION WORKPLAN**

### **OXY – CEDAR CANYON 22 #1H (Leak Date: 4/09/17)**

**RP # 2RP-4173  
API # 30-015-40668**

---

This delineation workplan and remediation proposal addresses the release associated with RP # 2RP-4173.

The following information includes:

1. Scaled digital site map with spill area demarcated and leak point identified along with sample point locations and areas of remediation at appropriate depths.
2. GPS information for sample points and sample methodology
3. Depth to groundwater information (i.e., pdf of OSE search results and/or copy of Chevron groundwater trend map).
4. Laboratory analysis results summary table and original laboratory analysis reports
5. A copy of the initial C-141
6. Potentially other pertinent information as necessary for site specific purposes.

***Based on the information included in this package and the NMOCD guidelines, the following remediation is proposed:***

***OXY will excavate the spill area as depicted on the following site diagram. The entire leak area (shaded in pink) will be excavated to a depth of 2.5 feet.***

The entire site will then be backfilled with clean soil and revegetated (if warranted) to the standards of the appropriate regulatory agency or private surface owner.

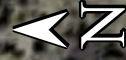
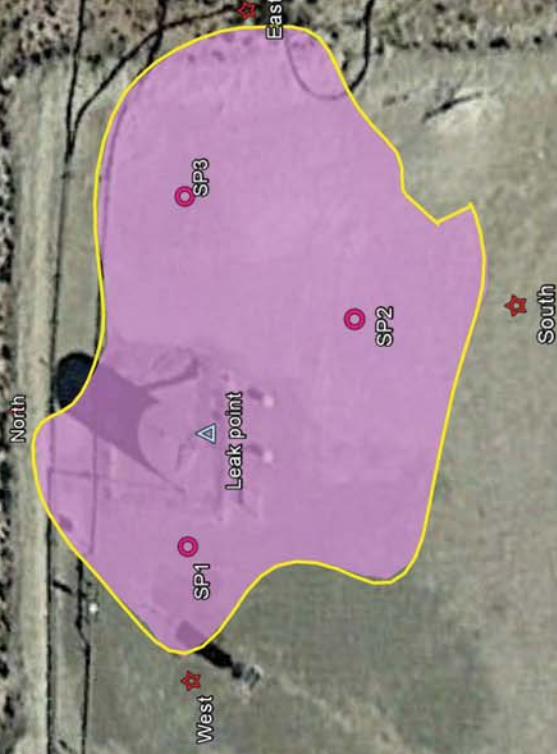
All excavated materials will be disposed of at an NMOCD-approved disposal facility.

# Oxy, Cedar Canyon 22 #1H

Leak date: 04/09/2017  
Eddy County, NM  
API# 30-015-40668  
2RP-4173

## Legend

- 2.5' Excavation across entire leak area
- Cardinal sample points, hand auger
- Leak Area
- Leak point
- Sample points, hand auger



90 ft

Google Earth

©2017 Google



Oxy, Cedar Canyon 22 #1H

Sample points, hand auger

SP1, N 32.20141 W-103.97423

SP2, N 32.20132 W-103.97410

SP3, N 32.20142 W-103.97404

NORTH, N 32.20151 W-103.97416

SOUTH, N 32.20124 W-103.97410

EAST, N 32.20138 W-103.97394

WEST, N 32.20141 W-103.97431

**Oxy, Cedar Canyon 22 #001**  
**U/L K, Section 22, T24S, R29E**  
**Groundwater: 75'-100'**



Laboratory Analytical Results Summary  
Cedar Canyon 22 #001

Analyte	Method	Sample		SP1 @ 1'		SP1 @ 2'		SP1 @ 3'		SP1 @ 8'	
		Date		4/17/17	mg/Kg	4/17/17	mg/Kg	4/17/17	mg/Kg	4/17/17	mg/Kg
Benzene	BTEX 8021B				<0.500	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B				5.29	0.425	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B				9.16	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B				40.8	4.64	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B				55.3	5.07	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B				496	32	32	32	32	32	32
GRO	TPH 8015M				935	88.9	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M				5850	1420	<10.0	<10.0	<10.0	<10.0	<10.0

Analyte	Method	Sample		SP2 @ 1'		SP2 @ 2'		SP2 @ 3'		SP2 @ 8'	
		Date		4/17/17	mg/Kg	4/17/17	mg/Kg	4/17/17	mg/Kg	4/17/17	mg/Kg
Benzene	BTEX 8021B				<0.500	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B				2.12	0.205	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B				4.2	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B				18.6	1.45	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B				24.9	1.65	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B				480	16	<16.0	<16.0	64	64	64
GRO	TPH 8015M				652	96.4	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M				6700	2000	<10.0	<10.0	<10.0	<10.0	<10.0

Analyte	Method	Sample		SP3 @ 1'		SP3 @ 2'		SP3 @ 3'		SP3 @ 8'	
		Date		4/17/17	mg/Kg	4/17/17	mg/Kg	4/17/17	mg/Kg	4/17/17	mg/Kg
Benzene	BTEX 8021B				<0.500	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B				3.28	0.519	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B				5.37	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B				23.1	5.25	<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B				31.8	5.77	<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B				448	16	<16.0	<16.0	64	64	64
GRO	TPH 8015M				813	126	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M				6140	1760	<10.0	<10.0	<10.0	<10.0	<10.0

Analyte	Method	Sample		SOUTH @ 1'	
		Date		2/6/17	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

Analyte	Method	Sample		NORTH @ 1'	
		Date		2/6/17	mg/Kg
Benzene	BTEX 8021B				<0.050
Toluene	BTEX 8021B				0.066
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

Analyte	Method	Sample		EAST @ 1'	
		Date		2/6/17	mg/Kg
Benzene	BTEX 8021B				<0.050
Toluene	BTEX 8021B				0.073
Ethylbenzene	BTEX 8021B				<0.050
Total Xylenes	BTEX 8021B				<0.150
Total BTEX	BTEX 8021B				<0.300
Chloride	SM4500Cl-B				64
GRO	TPH 8015M				<10.0
DRO	TPH 8015M				<10.0

Analyte	Method	Sample		WEST @ 1'	
		Date		2/6/17	mg/Kg
Benzene	BTEX 8021B				<0.050
Toluene	BTEX 8021B				0.082
Ethylbenzene	BTEX 8021B				<0.050
Total Xylenes	BTEX 8021B				<0.150
Total BTEX	BTEX 8021B				<0.300
Chloride	SM4500Cl-B				<16.0
GRO	TPH 8015M				<10.0
DRO	TPH 8015M				<10.0

April 28, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CEDAR CANYON

Enclosed are the results of analyses for samples received by the laboratory on 04/21/17 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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](http://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,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 04/21/2017  
Reported: 04/28/2017  
Project Name: CEDAR CANYON  
Project Number: 22 # 001  
Project Location: NOT GIVEN

Sampling Date: 04/17/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP1 @ 1' (H701078-01)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	04/26/2017	ND	2.06	103	2.00	4.14	
<b>Toluene*</b>	<b>5.29</b>	0.500	04/26/2017	ND	1.91	95.4	2.00	3.49	
<b>Ethylbenzene*</b>	<b>9.16</b>	0.500	04/26/2017	ND	1.91	95.6	2.00	3.84	
<b>Total Xylenes*</b>	<b>40.8</b>	1.50	04/26/2017	ND	5.43	90.6	6.00	3.93	
<b>Total BTX</b>	<b>55.3</b>	3.00	04/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>496</b>	16.0	04/26/2017	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
<b>GRO C6-C10</b>	<b>935</b>	10.0	04/25/2017	ND	211	105	200	0.253	
<b>DRO &gt;C10-C28</b>	<b>5850</b>	10.0	04/25/2017	ND	224	112	200	1.64	

Surrogate: 1-Chlorooctane 154 % 28.3-164

Surrogate: 1-Chlorooctadecane 138 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 04/21/2017  
Reported: 04/28/2017  
Project Name: CEDAR CANYON  
Project Number: 22 # 001  
Project Location: NOT GIVEN

Sampling Date: 04/17/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP1 @ 2' (H701078-02)**

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2017	ND	2.06	103	2.00	4.14	
Toluene*	0.425	0.050	04/26/2017	ND	1.91	95.4	2.00	3.49	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.91	95.6	2.00	3.84	
Total Xylenes*	4.64	0.150	04/26/2017	ND	5.43	90.6	6.00	3.93	
Total BTEX	5.07	0.300	04/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 161 % 72-148

Chloride, SM4500CI-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	04/26/2017	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
<b>GRO C6-C10</b>	<b>88.9</b>	10.0	04/25/2017	ND	211	105	200	0.253	
<b>DRO &gt;C10-C28</b>	<b>1420</b>	10.0	04/25/2017	ND	224	112	200	1.64	

Surrogate: 1-Chlorooctane 103 % 28.3-164

Surrogate: 1-Chlorooctadecane 103 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received: 04/21/2017  
Reported: 04/28/2017  
Project Name: CEDAR CANYON  
Project Number: 22 # 001  
Project Location: NOT GIVEN

Sampling Date: 04/17/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP1 @ 3' (H701078-03)**

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	04/26/2017	ND	2.06	103	2.00	4.14	
Toluene*	<0.050	0.050	04/26/2017	ND	1.91	95.4	2.00	3.49	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.91	95.6	2.00	3.84	
Total Xylenes*	<0.150	0.150	04/26/2017	ND	5.43	90.6	6.00	3.93	
Total BTX	<0.300	0.300	04/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/26/2017	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	04/25/2017	ND	211	105	200	0.253	
DRO >C10-C28	<10.0	10.0	04/25/2017	ND	224	112	200	1.64	

Surrogate: 1-Chlorooctane 91.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 86.5 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 04/21/2017  
Reported: 04/28/2017  
Project Name: CEDAR CANYON  
Project Number: 22 # 001  
Project Location: NOT GIVEN

Sampling Date: 04/17/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP1 @ 8' (H701078-04)**

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	04/26/2017	ND	2.06	103	2.00	4.14		
Toluene*	<0.050	0.050	04/26/2017	ND	1.91	95.4	2.00	3.49		
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.91	95.6	2.00	3.84		
Total Xylenes*	<0.150	0.150	04/26/2017	ND	5.43	90.6	6.00	3.93		
Total BTX	<0.300	0.300	04/26/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/26/2017	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	04/25/2017	ND	211	105	200	0.253	
DRO >C10-C28	<10.0	10.0	04/25/2017	ND	224	112	200	1.64	

Surrogate: 1-Chlorooctane 97.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 90.3 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 04/21/2017  
Reported: 04/28/2017  
Project Name: CEDAR CANYON  
Project Number: 22 # 001  
Project Location: NOT GIVEN

Sampling Date: 04/17/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP2 @ 1' (H701078-05)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	04/26/2017	ND	2.06	103	2.00	4.14	
Toluene*	2.12	0.500	04/26/2017	ND	1.91	95.4	2.00	3.49	
Ethylbenzene*	4.20	0.500	04/26/2017	ND	1.91	95.6	2.00	3.84	
Total Xylenes*	18.6	1.50	04/26/2017	ND	5.43	90.6	6.00	3.93	
Total BTEX	24.9	3.00	04/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	04/24/2017	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	652	10.0	04/25/2017	ND	211	105	200	0.253	
DRO >C10-C28	6700	10.0	04/25/2017	ND	224	112	200	1.64	

Surrogate: 1-Chlorooctane 150 % 28.3-164

Surrogate: 1-Chlorooctadecane 159 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 04/21/2017  
Reported: 04/28/2017  
Project Name: CEDAR CANYON  
Project Number: 22 # 001  
Project Location: NOT GIVEN

Sampling Date: 04/17/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP2 @ 2' (H701078-06)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2017	ND	2.06	103	2.00	4.14	
Toluene*	0.205	0.050	04/26/2017	ND	1.91	95.4	2.00	3.49	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.91	95.6	2.00	3.84	
Total Xylenes*	1.45	0.150	04/26/2017	ND	5.43	90.6	6.00	3.93	
Total BTEX	1.65	0.300	04/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 143 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/24/2017	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	96.4	10.0	04/25/2017	ND	211	105	200	0.253	
DRO >C10-C28	2000	10.0	04/25/2017	ND	224	112	200	1.64	

Surrogate: 1-Chlorooctane 113 % 28.3-164

Surrogate: 1-Chlorooctadecane 119 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 04/21/2017  
Reported: 04/28/2017  
Project Name: CEDAR CANYON  
Project Number: 22 # 001  
Project Location: NOT GIVEN

Sampling Date: 04/17/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP2 @ 3' (H701078-07)**

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	04/26/2017	ND	2.06	103	2.00	4.14	
Toluene*	<0.050	0.050	04/26/2017	ND	1.91	95.4	2.00	3.49	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.91	95.6	2.00	3.84	
Total Xylenes*	<0.150	0.150	04/26/2017	ND	5.43	90.6	6.00	3.93	
Total BTX	<0.300	0.300	04/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/24/2017	ND	448	112	400	3.51		

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	04/25/2017	ND	211	105	200	0.253	
DRO >C10-C28	<10.0	10.0	04/25/2017	ND	224	112	200	1.64	

Surrogate: 1-Chlorooctane 102 % 28.3-164

Surrogate: 1-Chlorooctadecane 98.1 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received: 04/21/2017  
Reported: 04/28/2017  
Project Name: CEDAR CANYON  
Project Number: 22 # 001  
Project Location: NOT GIVEN

Sampling Date: 04/17/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP2 @ 8' (H701078-08)**

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	04/26/2017	ND	2.06	103	2.00	4.14	
Toluene*	<0.050	0.050	04/26/2017	ND	1.91	95.4	2.00	3.49	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.91	95.6	2.00	3.84	
Total Xylenes*	<0.150	0.150	04/26/2017	ND	5.43	90.6	6.00	3.93	
Total BTX	<0.300	0.300	04/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/24/2017	ND	448	112	400	3.51	

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	04/25/2017	ND	211	105	200	0.253	
DRO >C10-C28	<10.0	10.0	04/25/2017	ND	224	112	200	1.64	

Surrogate: 1-Chlorooctane 103 % 28.3-164

Surrogate: 1-Chlorooctadecane 95.1 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 04/21/2017  
Reported: 04/28/2017  
Project Name: CEDAR CANYON  
Project Number: 22 # 001  
Project Location: NOT GIVEN

Sampling Date: 04/17/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP3 @ 1' (H701078-09)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	04/26/2017	ND	2.06	103	2.00	4.14	
Toluene*	3.28	0.500	04/26/2017	ND	1.91	95.4	2.00	3.49	
Ethylbenzene*	5.37	0.500	04/26/2017	ND	1.91	95.6	2.00	3.84	
Total Xylenes*	23.1	1.50	04/26/2017	ND	5.43	90.6	6.00	3.93	
Total BTEx	31.8	3.00	04/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	04/24/2017	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	813	10.0	04/25/2017	ND	211	105	200	0.253		
DRO >C10-C28	6140	10.0	04/25/2017	ND	224	112	200	1.64		

Surrogate: 1-Chlorooctane 165 % 28.3-164

Surrogate: 1-Chlorooctadecane 153 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 04/21/2017  
Reported: 04/28/2017  
Project Name: CEDAR CANYON  
Project Number: 22 # 001  
Project Location: NOT GIVEN

Sampling Date: 04/17/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP3 @ 2' (H701078-10)**

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2017	ND	2.06	103	2.00	4.14	
Toluene*	0.519	0.050	04/26/2017	ND	1.91	95.4	2.00	3.49	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.91	95.6	2.00	3.84	
Total Xylenes*	5.25	0.150	04/26/2017	ND	5.43	90.6	6.00	3.93	
Total BTEX	5.77	0.300	04/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 161 % 72-148

Chloride, SM4500CI-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	04/24/2017	ND	448	112	400	3.51	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>126</b>	10.0	04/25/2017	ND	211	105	200	0.253	
<b>DRO &gt;C10-C28</b>	<b>1760</b>	10.0	04/25/2017	ND	224	112	200	1.64	

Surrogate: 1-Chlorooctane 94.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 104 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 04/21/2017  
Reported: 04/28/2017  
Project Name: CEDAR CANYON  
Project Number: 22 # 001  
Project Location: NOT GIVEN

Sampling Date: 04/17/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP3 @ 3' (H701078-11)**

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	04/26/2017	ND	2.06	103	2.00	4.14	
Toluene*	<0.050	0.050	04/26/2017	ND	1.91	95.4	2.00	3.49	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.91	95.6	2.00	3.84	
Total Xylenes*	<0.150	0.150	04/26/2017	ND	5.43	90.6	6.00	3.93	
Total BTX	<0.300	0.300	04/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/24/2017	ND	448	112	400	3.51		

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	04/25/2017	ND	211	105	200	0.253	
DRO >C10-C28	10.4	10.0	04/25/2017	ND	224	112	200	1.64	

Surrogate: 1-Chlorooctane 99.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 94.5 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 04/21/2017  
Reported: 04/28/2017  
Project Name: CEDAR CANYON  
Project Number: 22 # 001  
Project Location: NOT GIVEN

Sampling Date: 04/17/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP3 @ 8' (H701078-12)**

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	04/26/2017	ND	2.06	103	2.00	4.14	
Toluene*	<0.050	0.050	04/26/2017	ND	1.91	95.4	2.00	3.49	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.91	95.6	2.00	3.84	
Total Xylenes*	<0.150	0.150	04/26/2017	ND	5.43	90.6	6.00	3.93	
Total BTX	<0.300	0.300	04/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/24/2017	ND	448	112	400	3.51	

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	04/25/2017	ND	211	105	200	0.253	
DRO >C10-C28	<10.0	10.0	04/25/2017	ND	224	112	200	1.64	

Surrogate: 1-Chlorooctane 91.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 83.8 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received: 04/21/2017  
Reported: 04/28/2017  
Project Name: CEDAR CANYON  
Project Number: 22 # 001  
Project Location: NOT GIVEN

Sampling Date: 04/17/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SOUTH (H701078-13)**

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	04/26/2017	ND	2.06	103	2.00	4.14	
Toluene*	<0.050	0.050	04/26/2017	ND	1.91	95.4	2.00	3.49	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.91	95.6	2.00	3.84	
Total Xylenes*	<0.150	0.150	04/26/2017	ND	5.43	90.6	6.00	3.93	
Total BTX	<0.300	0.300	04/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/24/2017	ND	448	112	400	3.51	

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	04/25/2017	ND	211	105	200	0.253	
DRO >C10-C28	<10.0	10.0	04/25/2017	ND	224	112	200	1.64	

Surrogate: 1-Chlorooctane 92.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 85.6 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 04/21/2017  
Reported: 04/28/2017  
Project Name: CEDAR CANYON  
Project Number: 22 # 001  
Project Location: NOT GIVEN

Sampling Date: 04/17/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: NORTH (H701078-14)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/26/2017	ND	2.06	103	2.00	4.14		
Toluene*	0.066	0.050	04/26/2017	ND	1.91	95.4	2.00	3.49		
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.91	95.6	2.00	3.84		
Total Xylenes*	<0.150	0.150	04/26/2017	ND	5.43	90.6	6.00	3.93		
Total BTEX	<0.300	0.300	04/26/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/24/2017	ND	448	112	400	3.51		

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	04/25/2017	ND	211	105	200	0.253	
DRO >C10-C28	<10.0	10.0	04/25/2017	ND	224	112	200	1.64	

Surrogate: 1-Chlorooctane 90.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 85.9 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 04/21/2017  
Reported: 04/28/2017  
Project Name: CEDAR CANYON  
Project Number: 22 # 001  
Project Location: NOT GIVEN

Sampling Date: 04/17/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: EAST (H701078-15)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2017	ND	2.06	103	2.00	4.14	
Toluene*	0.073	0.050	04/26/2017	ND	1.91	95.4	2.00	3.49	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.91	95.6	2.00	3.84	
Total Xylenes*	<0.150	0.150	04/26/2017	ND	5.43	90.6	6.00	3.93	
Total BTEx	<0.300	0.300	04/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/24/2017	ND	448	112	400	3.51	

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	04/25/2017	ND	211	105	200	0.253	
DRO >C10-C28	<10.0	10.0	04/25/2017	ND	224	112	200	1.64	

Surrogate: 1-Chlorooctane 94.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 88.3 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 04/21/2017  
Reported: 04/28/2017  
Project Name: CEDAR CANYON  
Project Number: 22 # 001  
Project Location: NOT GIVEN

Sampling Date: 04/17/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: WEST (H701078-16)**

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	04/26/2017	ND	2.06	103	2.00	4.14	
Toluene*	0.082	0.050	04/26/2017	ND	1.91	95.4	2.00	3.49	
Ethylbenzene*	<0.050	0.050	04/26/2017	ND	1.91	95.6	2.00	3.84	
Total Xylenes*	<0.150	0.150	04/26/2017	ND	5.43	90.6	6.00	3.93	
Total BTEx	<0.300	0.300	04/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/24/2017	ND	448	112	400	3.51		

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	04/25/2017	ND	211	105	200	0.253	
DRO >C10-C28	<10.0	10.0	04/25/2017	ND	224	112	200	1.64	

Surrogate: 1-Chlorooctane 83.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 83.8 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

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

---

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



---

Celey D. Keene, Lab Director/Quality Manager





# CARDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

192

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: CEDAR CANYON

Project Location:

Sample Name: ROGER HERNANDEZ

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H1010178

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH  
BTEX  
CHLORIDE

### BILL TO

### ANALYSIS REQUEST

P.O. #:

Company:

Attn:

Address:

City:

State:

Zip:

Phone #:

Fax #:

PRESERV.

SAMPLING

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

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

#75 1.30

Sample Condition  
Cool ☒ Intact ☒  
Yes ☒ No ☐

CHECKED BY: (Initials)

REMARKS:

Phone Result:

Yes ☐ No ☐

Add'l Phone #:

Add'l Fax #:

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



# CARDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

242

Company Name: BBC International, Inc.		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>									
Project Manager: Cliff Brunson		P.O. #:											
Address: P.O. Box 805		Company:											
City: Hobbs		Attn:											
State: NM Zip: 88241		Address:											
Phone #: 575-397-6388 Fax #: 575-397-0397		City:											
Project #: Project Owner:		State: Zip:											
Project Name: CEDAR CANYON 22# 001		Phone #:											
Project Location:		Fax #:											
Sampler Name: ROGER HERNANDEZ		PRESERV											
FOR LAB USE ONLY		SAMPLING											
Lab I.D.		Sample I.D.											
H7D1D78		SP 3 @ 3' @ 8'											
11		SP 3 @ 3' @ 8'											
12		SP 3 @ 3' @ 8'											
13		SP 3 @ 3' @ 8'											
14		SP 3 @ 3' @ 8'											
15		SP 3 @ 3' @ 8'											
16		SP 3 @ 3' @ 8'											
17		SP 3 @ 3' @ 8'											
18		SP 3 @ 3' @ 8'											
19		SP 3 @ 3' @ 8'											
20		SP 3 @ 3' @ 8'											
21		SP 3 @ 3' @ 8'											
22		SP 3 @ 3' @ 8'											
23		SP 3 @ 3' @ 8'											
24		SP 3 @ 3' @ 8'											
25		SP 3 @ 3' @ 8'											
26		SP 3 @ 3' @ 8'											
27		SP 3 @ 3' @ 8'											
28		SP 3 @ 3' @ 8'											
29		SP 3 @ 3' @ 8'											
30		SP 3 @ 3' @ 8'											
31		SP 3 @ 3' @ 8'											
32		SP 3 @ 3' @ 8'											
33		SP 3 @ 3' @ 8'											
34		SP 3 @ 3' @ 8'											
35		SP 3 @ 3' @ 8'											
36		SP 3 @ 3' @ 8'											
37		SP 3 @ 3' @ 8'											
38		SP 3 @ 3' @ 8'											
39		SP 3 @ 3' @ 8'											
40		SP 3 @ 3' @ 8'											
41		SP 3 @ 3' @ 8'											
42		SP 3 @ 3' @ 8'											
43		SP 3 @ 3' @ 8'											
44		SP 3 @ 3' @ 8'											
45		SP 3 @ 3' @ 8'											
46		SP 3 @ 3' @ 8'											
47		SP 3 @ 3' @ 8'											
48		SP 3 @ 3' @ 8'											
49		SP 3 @ 3' @ 8'											
50		SP 3 @ 3' @ 8'											
51		SP 3 @ 3' @ 8'											
52		SP 3 @ 3' @ 8'											
53		SP 3 @ 3' @ 8'											
54		SP 3 @ 3' @ 8'											
55		SP 3 @ 3' @ 8'											
56		SP 3 @ 3' @ 8'											
57		SP 3 @ 3' @ 8'											
58		SP 3 @ 3' @ 8'											
59		SP 3 @ 3' @ 8'											
60		SP 3 @ 3' @ 8'											
61		SP 3 @ 3' @ 8'											
62		SP 3 @ 3' @ 8'											
63		SP 3 @ 3' @ 8'											
64		SP 3 @ 3' @ 8'											
65		SP 3 @ 3' @ 8'											
66		SP 3 @ 3' @ 8'											
67		SP 3 @ 3' @ 8'											
68		SP 3 @ 3' @ 8'											
69		SP 3 @ 3' @ 8'											
70		SP 3 @ 3' @ 8'											
71		SP 3 @ 3' @ 8'											
72		SP 3 @ 3' @ 8'											
73		SP 3 @ 3' @ 8'											
74		SP 3 @ 3' @ 8'											
75		SP 3 @ 3' @ 8'											
76		SP 3 @ 3' @ 8'											
77		SP 3 @ 3' @ 8'											
78		SP 3 @ 3' @ 8'											
79		SP 3 @ 3' @ 8'											
80		SP 3 @ 3' @ 8'											
81		SP 3 @ 3' @ 8'											
82		SP 3 @ 3' @ 8'											
83		SP 3 @ 3' @ 8'											
84		SP 3 @ 3' @ 8'											
85		SP 3 @ 3' @ 8'											
86		SP 3 @ 3' @ 8'											
87		SP 3 @ 3' @ 8'											
88		SP 3 @ 3' @ 8'											
89		SP 3 @ 3' @ 8'											
90		SP 3 @ 3' @ 8'											
91		SP 3 @ 3' @ 8'											
92		SP 3 @ 3' @ 8'											
93		SP 3 @ 3' @ 8'											
94		SP 3 @ 3' @ 8'											
95		SP 3 @ 3' @ 8'											
96		SP 3 @ 3' @ 8'											
97		SP 3 @ 3' @ 8'											
98		SP 3 @ 3' @ 8'											
99		SP 3 @ 3' @ 8'											
100		SP 3 @ 3' @ 8'											
101		SP 3 @ 3' @ 8'											
102		SP 3 @ 3' @ 8'											
103		SP 3 @ 3' @ 8'											
104		SP 3 @ 3' @ 8'											
105		SP 3 @ 3' @ 8'											
106		SP 3 @ 3' @ 8'											
107		SP 3 @ 3' @ 8'											
108		SP 3 @ 3' @ 8'											
109		SP 3 @ 3' @ 8'											
110		SP 3 @ 3' @ 8'											
111		SP 3 @ 3' @ 8'											
112		SP 3 @ 3' @ 8'											
113		SP 3 @ 3' @ 8'											
114		SP 3 @ 3' @ 8'											
115		SP 3 @ 3' @ 8'											
116		SP 3 @ 3' @ 8'											
117		SP 3 @ 3' @ 8'											
118		SP 3 @ 3' @ 8'											
119		SP 3 @ 3' @ 8'											
120		SP 3 @ 3' @ 8'											
121		SP 3 @ 3' @ 8'											
122		SP 3 @ 3' @ 8'											
123		SP 3 @ 3' @ 8'											
124		SP 3 @ 3' @ 8'											
125		SP 3 @ 3' @ 8'											
126		SP 3 @ 3' @ 8'											
127		SP 3 @ 3' @ 8'											
128		SP 3 @ 3' @ 8'											
129		SP 3 @ 3' @ 8'											
130		SP 3 @ 3' @ 8'											
131		SP 3 @ 3' @ 8'											
132		SP 3 @ 3' @ 8'											
133		SP 3 @ 3' @ 8'											
134		SP 3 @ 3' @ 8'											
135		SP 3 @ 3' @ 8'											
136		SP 3 @ 3' @ 8'											
137		SP 3 @ 3' @ 8'											
138		SP 3 @ 3' @ 8'											
139		SP 3 @ 3' @ 8'											
140		SP 3 @ 3' @ 8'											
141		SP 3 @ 3' @ 8'											
142		SP 3 @ 3' @ 8'											
143		SP 3 @ 3' @ 8'											
144		SP 3 @ 3' @ 8'											
145		SP 3 @ 3' @ 8'											
146		SP 3 @ 3' @ 8'											
147		SP 3 @ 3' @ 8'											
148		SP 3 @ 3' @ 8'											
149		SP 3 @ 3' @ 8'											
150		SP 3 @ 3' @ 8'											
151		SP 3 @ 3' @ 8'											
152		SP 3 @ 3' @ 8'											
153		SP 3 @ 3' @ 8'											
154		SP 3 @ 3' @ 8'											
155		SP 3 @ 3' @ 8'											
156		SP 3 @ 3' @ 8'											
157		SP 3 @ 3' @ 8'											
158		SP 3 @ 3' @ 8'											
159		SP 3 @ 3' @ 8'											
160		SP 3 @ 3' @ 8'											
161		SP 3 @ 3' @ 8'											
162		SP 3 @ 3' @ 8'											
163		SP 3 @ 3' @ 8'											
164		SP 3 @ 3' @ 8'											
165		SP 3 @ 3' @ 8'											
166		SP 3 @ 3' @ 8'											
167		SP 3 @ 3' @ 8'											
168		SP 3 @ 3' @ 8'											
169		SP 3 @ 3' @ 8'											
170		SP 3 @ 3' @ 8'											
171		SP 3 @ 3' @ 8'											
172		SP 3 @ 3' @ 8'											
173		SP 3 @ 3' @ 8'											
174		SP 3 @ 3' @ 8'											
175		SP 3 @ 3' @ 8'											
176		SP 3 @ 3' @ 8'											
177		SP 3 @ 3' @ 8'											
178		SP 3 @ 3' @ 8'											
179		SP 3 @ 3' @ 8'											
180		SP 3 @ 3' @ 8'											
181		SP 3 @ 3' @ 8'											
182		SP 3 @ 3' @ 8'											
183		SP 3 @ 3' @ 8'											
184		SP 3 @ 3' @ 8'											
185		SP 3 @ 3' @ 8'											
186		SP 3 @ 3' @ 8'											
187		SP 3 @ 3' @ 8'											
188		SP 3 @ 3' @ 8'											
189		SP 3 @ 3' @ 8'											
190		SP 3 @ 3' @ 8'											
191		SP 3 @ 3' @ 8'											
192		SP 3 @ 3' @ 8'											
193		SP 3 @ 3' @ 8'											
194		SP 3 @ 3' @ 8'											
195		SP 3 @ 3' @ 8'											
196		SP 3 @ 3' @ 8'											
197		SP 3 @ 3' @ 8'											
198		SP 3 @ 3' @ 8'											
199		SP 3 @ 3' @ 8'											
200		SP 3 @ 3' @ 8'											
201		SP 3 @ 3' @ 8'											
202		SP 3 @ 3' @ 8'											
203		SP 3 @ 3' @ 8'											
204		SP 3 @ 3' @ 8'											
205		SP 3 @ 3' @ 8'											
206		SP 3 @ 3' @ 8'											
207		SP 3 @ 3' @ 8'											
208		SP 3 @ 3' @ 8'											
209		SP 3 @ 3' @ 8'											
210		SP 3 @ 3' @ 8'											
211		SP 3 @ 3' @ 8'											
212		SP 3 @ 3' @ 8'											
213		SP 3 @ 3' @ 8'											
214		SP 3 @ 3' @ 8'											
215		SP 3 @ 3' @ 8'											
216		SP 3 @ 3' @ 8'											
217		SP 3 @ 3' @ 8'											
218		SP 3 @ 3' @ 8'											
219		SP 3 @ 3' @ 8'											
220		SP 3 @ 3' @ 8'											
221		SP 3 @ 3' @ 8'											
222		SP 3 @ 3' @ 8'											
223		SP 3 @ 3' @ 8'											
224		SP 3 @ 3' @ 8'											
225		SP 3 @ 3' @ 8'											
226		SP 3 @ 3' @ 8'											
227		SP 3 @ 3' @ 8'											
228		SP 3 @ 3' @ 8'											
229		SP 3 @ 3' @ 8'											
230		SP 3 @ 3' @ 8'											
231		SP 3 @ 3' @ 8'											
232		SP 3 @ 3' @ 8'											
233		SP 3 @ 3' @ 8'											
234		SP 3 @ 3' @ 8'											
235		SP 3 @ 3' @ 8'											
236		SP 3 @ 3' @ 8'											
237		SP 3 @ 3' @ 8'											
238		SP 3 @ 3' @ 8'											
239		SP 3 @ 3' @ 8'											
240		SP 3 @ 3' @ 8'											
241		SP 3 @ 3' @ 8'											
242		SP 3 @ 3' @ 8'											
243		SP 3 @ 3' @ 8'											
244		SP 3 @ 3' @ 8'											
245		SP 3 @ 3' @ 8'											
246		SP 3 @ 3' @ 8'											
247		SP 3 @ 3' @ 8'											
248		SP 3 @ 3' @ 8'											
249		SP 3 @ 3' @ 8'											
250		SP 3 @ 3' @ 8'											
251		SP 3 @ 3' @ 8'											
252		SP 3 @ 3' @ 8'											
253		SP 3 @ 3' @ 8'											
254		SP 3 @ 3' @ 8'											
255		SP 3 @ 3' @ 8'											
256		SP 3 @ 3' @ 8'											
257		SP 3 @ 3' @ 8'											
258		SP 3 @ 3' @ 8'											
259		SP 3 @ 3' @ 8'											
260		SP 3 @ 3' @ 8'											
261		SP 3 @ 3' @ 8'											
262		SP 3 @ 3' @ 8'											
263		SP 3 @ 3' @ 8'											
264		SP 3 @ 3' @ 8'											
265		SP 3 @ 3' @ 8'											
266		SP 3 @ 3' @ 8'											
267		SP 3 @ 3' @ 8'											
268		SP 3 @ 3' @ 8'											
269		SP 3 @ 3' @ 8'											
270		SP 3 @ 3' @ 8'											
271		SP 3 @ 3' @ 8'											
272		SP 3 @ 3' @ 8'											
273		SP 3 @ 3' @ 8'											
274		SP 3 @ 3' @ 8'											
275		SP 3 @ 3' @ 8'											
276		SP 3 @ 3' @ 8'											
277		SP 3 @ 3' @ 8'											
278		SP 3 @ 3' @ 8'											
279		SP 3 @ 3' @ 8'											
280		SP 3 @ 3' @ 8'											
281		SP 3 @ 3' @ 8'											
282		SP 3 @ 3' @ 8'											
283		SP 3 @ 3' @ 8'											
284		SP 3 @ 3' @ 8'											
285		SP 3 @ 3' @ 8'											
286		SP 3 @ 3' @ 8'											
287		SP 3 @ 3' @ 8'											
288		SP 3 @ 3' @ 8'											
289		SP 3 @ 3' @ 8'											
290		SP 3 @ 3' @ 8'											
291		SP 3 @ 3' @ 8'											
292		SP 3 @ 3' @ 8'											
293		SP 3 @ 3' @ 8'											
294		SP 3 @ 3' @ 8'											
295		SP 3 @ 3' @ 8'											



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

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

NEW MEXICO OIL CONSERVATION  
ARTESIA DISTRICT

APR 12 2017

Form C-141  
Revised April 3, 2017

Submit Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

RECEIVED

Release Notification and Corrective Action

NAB1710736826		OPERATOR		<input checked="" type="checkbox"/> Initial Report	<input type="checkbox"/> Final Report
Name of Company OXY USA INC		Contact CASEY SUMMERS			
Address PO BOX 4294; HOUSTON, TX 77210		Telephone No. 575-513-8289			
Facility Name CEDAR CANYON 22 #1H		Facility Type OIL WELL			
Surface Owner FEDERAL		Mineral Owner FEDERAL		API No. 30-015-40668	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	22	24S	29E	1980	SOUTH	1980	WEST	EDDY

Latitude\_N 32.2011642° Longitude\_W -103.9744949° NAD83

NATURE OF RELEASE

Type of Release OIL & PRODUCED WATER	Volume of Release 100 bbls OIL 5 bbls PW	Volume Recovered 96 OIL / 4 PW bbls
Source of Release LINE OVER PRESSURED	Date and Hour of Occurrence 3-31-2017 4/9/17 *	Date and Hour of Discovery
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? e-mail MIKE BRATCHER, NMOCD; CRYSTAL WEAVER, NMOCD; SHELLY STUCKER, BLM	
By Whom? CASEY SUMMERS	Date and Hour 04/03/2017 12:30 PM	* 4/10/17 10:28am
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. e-mail	

If a Watercourse was Impacted, Describe Fully.\*

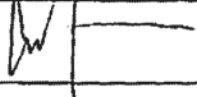
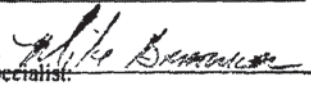
Describe Cause of Problem and Remedial Action Taken.\*

Line over pressured and caused PRV to open which over ran the tank. No high level alarm was set on tank. Oxy is looking into pressure and alarm issue to determine problem. Everything in line containment was recovered.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 35' x 15' and is both on and off location. Remediation will be completed in accordance with a remediation plan approved by NMOCD.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: 		OIL CONSERVATION DIVISION	
Printed Name: CASEY L SUMMERS		Approved by Environmental Specialist: 	
Title: ENVIRONMENTAL ADVISOR		Approval Date: 4/17/17	Expiration Date: N/A
E-mail Address: casey_summers@oxy.com		Conditions of Approval: See Attached	
Date: 4-12-17 Phone: 575-513-8289		Attached <input checked="" type="checkbox"/>	

\* Attach Additional Sheets If Necessary

2RP-4173