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E-MAIL: [cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)

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## **Oxy – Federal 12-1H Battery (12/16/2016)**

### **REMEDIATION PLAN, RP # 2RP-4053**

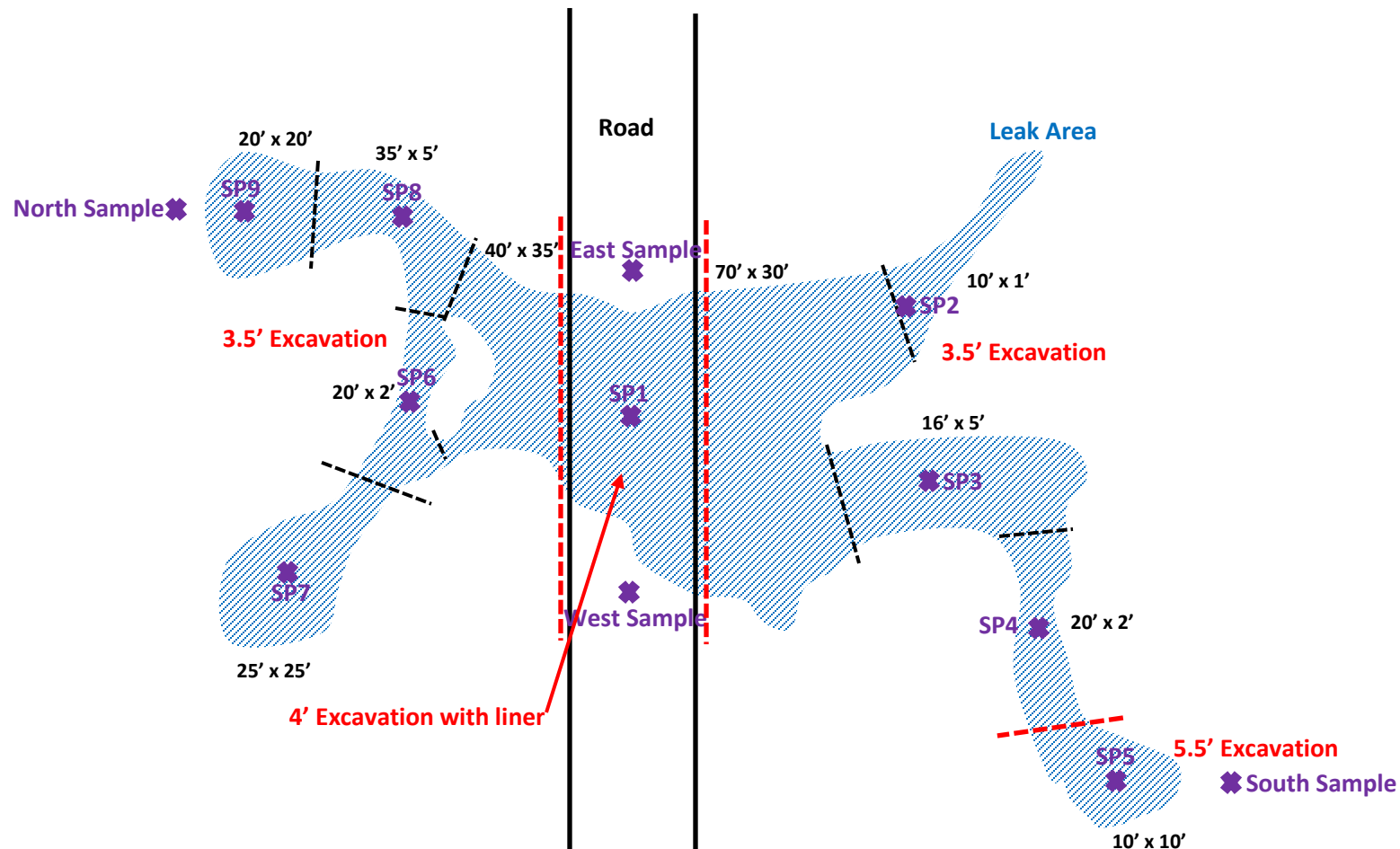
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Oxy will excavate the spill area as depicted on the following site diagram. The entire leak area will be excavated to a depth of 3.5 feet, except in the area of SP5, which will be excavated to a depth of 5.5 feet and, in the area of SP1, which will be excavated to a depth of 4 feet and a liner will be placed in the excavation. The entire site will then be backfilled with clean soil.

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



Oxy  
Federal 12-1H Battery (12/16/16)



U/L H, Section 7, T23S, R31E

Eddy County, NM

N 32.32150° W 103.81203°

API# 30-015-40840

**BBC International, Inc.**

**Oxy  
Federal 12-1H Battery**

Date: 12/29/2016

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2016



# Groundwater Plot

## Oxy Federal 12-1H Battery

County  
Eddy

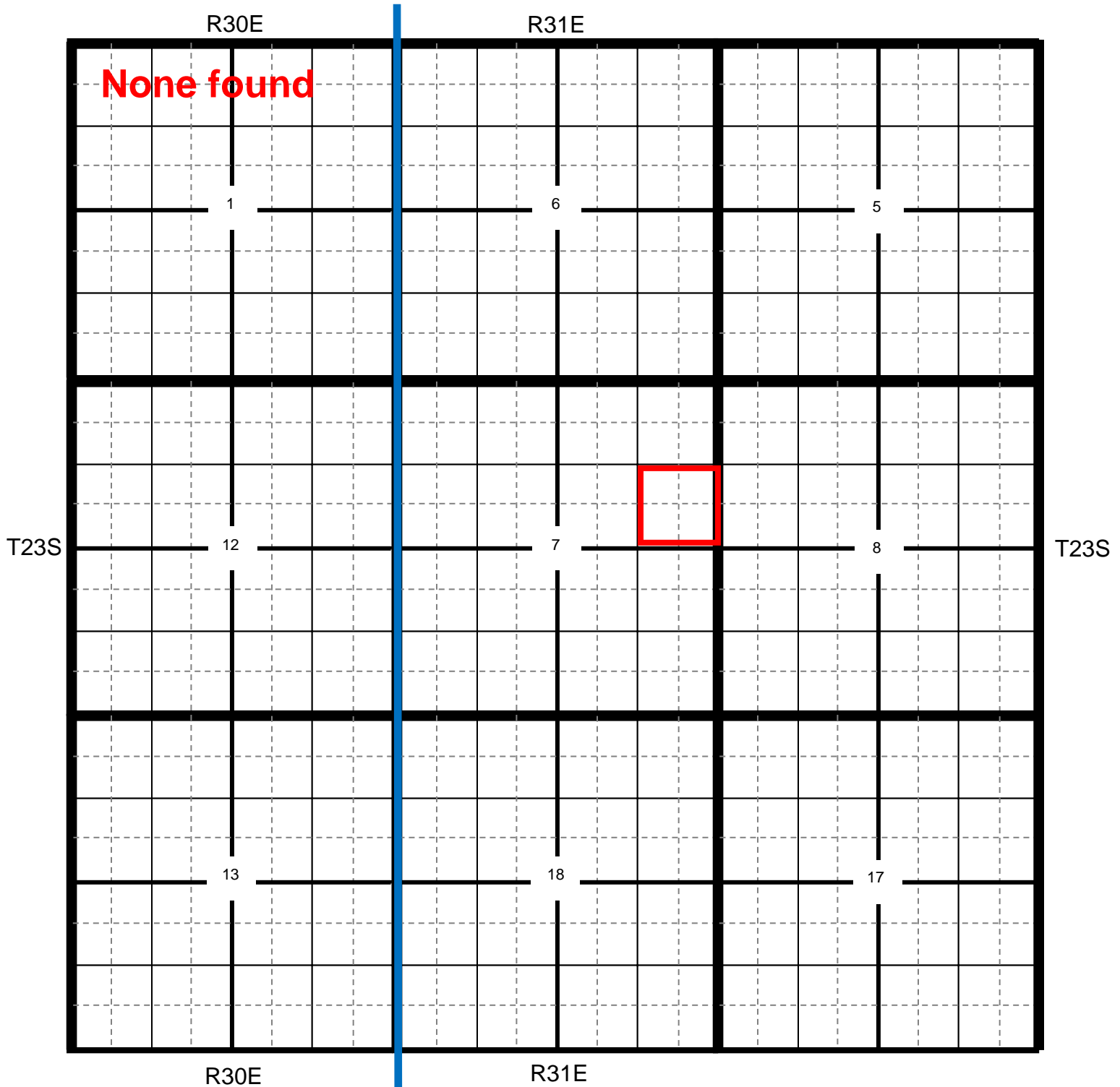
Unit Letter  
H

Section  
7

Township  
23S

Range  
31E

Trend Map 100'



★ Location

● OCD

● USGS

● SEO

● All Databases

## Oxy Federal 12-1H Battery

County Eddy      Unit Letter H      Section 7      Township 23S      Range 31E

Trend Map 100'

1

2

NW/NW <b>None found</b>	NE/NW	NW/NE	NE/NE
Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SW/NW	SE/NW	SW/NE	SE/NE
Unit Letter E	Unit Letter F	Unit Letter G	Unit Letter H
NW/SW	NE/SW	NW/SE	NE/SE
Unit Letter L	Unit Letter K	Unit Letter J	Unit Letter I
SW/SW	SE/SW	SW/SE	SE/SE
Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P

3

4

**Laboratory Analytical Results Summary  
Federal 12-1H Battery**

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 5'	SP1 @ 8'	SP1 @ 9'	SP1 @ 10'
Analyte	Method	Date	1/23/17	1/23/17	1/23/17	1/23/17	1/23/17	1/23/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		4800	6560	17400	3840	816	32
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		11.2	n/a	n/a	n/a	n/a	n/a

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 4'	SP2 @ 5'	SP2 @ 6'
Analyte	Method	Date	1/23/17	1/23/17	1/23/17	1/23/17	1/23/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		2640	5280	448	16	32

		Sample	SP3 @ 1'	SP3 @ 3'	SP3 @ 4'	SP3 @ 5'
Analyte	Method	Date	1/23/17	1/23/17	1/23/17	1/23/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		5040	2000	688	<16.0

		Sample	SP4 @ 1'	SP4 @ 3'	SP4 @ 4'
Analyte	Method	Date	1/23/17	1/23/17	1/23/17
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		4320	2360	<16.0

		Sample	SP5 @ 1'	SP5 @ 3'	SP5 @ 5'	SP5 @ 6'	SP5 @ 7'
Analyte	Method	Date	1/23/17	1/23/17	1/23/17	1/24/17	1/24/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		4160	16000	10100	80	96
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a

		Sample	SP6 @ 1'	SP6 @ 3'	SP6 @ 5'	SP6 @ 6'
Analyte	Method	Date	1/24/17	1/24/17	1/24/17	1/24/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		14000	34000	400	48

		Sample	SP7 @ 1'	SP7 @ 3'	SP7 @ 5'	SP7 @ 6'
Analyte	Method	Date	1/24/17	1/24/17	1/24/17	1/24/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		15200	31200	432	48

		Sample	SP8 @ 1'	SP8 @ 3'	SP8 @ 5'	SP8 @ 6'
Analyte	Method	Date	1/24/17	1/24/17	1/24/17	1/24/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		384	17200	208	32

		Sample	SP9 @ 1'	SP9 @ 3'	SP9 @ 5'	SP9 @ 6'
Analyte	Method	Date	1/23/17	1/23/17	1/23/17	1/23/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a
Ethylbenz	BTEX 8021B		<0.050	n/a	n/a	n/a
Total Xyle	BTEX 8021B		<0.150	n/a	n/a	n/a
Total BTE	BTEX 8021B		<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		14400	4400	208	32
GRO	TPH 8015M		<10.0	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a

		Sample	NORTH @ 1'
Analyte	Method	Date	1/24/17
			mg/Kg
Chloride	SM4500Cl-B		112

		Sample	EAST @ 1'
Analyte	Method	Date	1/24/17
			mg/Kg
Chloride	SM4500Cl-B		80

		Sample	WEST @ 1'
Analyte	Method	Date	1/24/17
			mg/Kg
Chloride	SM4500Cl-B		64

		Sample	SOUTH @ 1'
Analyte	Method	Date	1/24/17
			mg/Kg
Chloride	SM4500Cl-B		96



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

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February 01, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: FEDERAL 12 - 1H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/26/17 17:00.

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,

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

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 01/26/2017  
Reported: 02/01/2017  
Project Name: FEDERAL 12 - 1H BATTERY  
Project Number: NONE GIVEN  
Project Location: LEA COUNTY, NM

Sampling Date: 01/23/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Celey D. Keene

**Sample ID: SP 1 @ 1' (H700202-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2017	ND	1.98	98.8	2.00	0.451	
Toluene*	<0.050	0.050	01/31/2017	ND	2.01	100	2.00	0.376	
Ethylbenzene*	<0.050	0.050	01/31/2017	ND	2.06	103	2.00	0.437	
Total Xylenes*	<0.150	0.150	01/31/2017	ND	5.86	97.7	6.00	0.156	
Total BTEX	<0.300	0.300	01/31/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	01/30/2017	ND	432	108	400	3.64	

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	01/28/2017	ND	192	96.1	200	0.0655	
DRO >C10-C28	11.2	10.0	01/28/2017	ND	208	104	200	2.56	

Surrogate: 1-Chlorooctane 85.0 % 35-147

Surrogate: 1-Chlorooctadecane 94.1 % 28-171

**Sample ID: SP 1 @ 3' (H700202-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6560	16.0	01/30/2017	ND	432	108	400	3.64	

Cardinal Laboratories

\*=Accredited Analyte

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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:	01/26/2017	Sampling Date:	01/23/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

**Sample ID: SP 1 @ 5' (H700202-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	17400	16.0	01/30/2017	ND	432	108	400	3.64		

**Sample ID: SP 1 @ 8' (H700202-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	01/30/2017	ND	432	108	400	3.64	

**Sample ID: SP 1 @ 9' (H700202-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	01/30/2017	ND	432	108	400	3.64	

**Sample ID: SP 1 @ 10' (H700202-06)**

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	01/31/2017	ND	432	108	400	3.64	

**Sample ID: SP 2 @ 1' (H700202-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2640	16.0	01/31/2017	ND	432	108	400	3.64	

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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: 01/26/2017  
Reported: 02/01/2017  
Project Name: FEDERAL 12 - 1H BATTERY  
Project Number: NONE GIVEN  
Project Location: LEA COUNTY, NM

Sampling Date: 01/23/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Celey D. Keene

**Sample ID: SP 2 @ 3' (H700202-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5280	16.0	01/31/2017	ND	432	108	400	3.64	

**Sample ID: SP 2 @ 4' (H700202-09)**

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	01/31/2017	ND	432	108	400	3.64	

**Sample ID: SP 2 @ 5' (H700202-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	01/31/2017	ND	432	108	400	3.64		

**Sample ID: SP 2 @ 6' (H700202-11)**

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	01/31/2017	ND	432	108	400	3.64	

**Sample ID: SP 3 @ 1' (H700202-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5040	16.0	01/31/2017	ND	432	108	400	3.64	

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

Received:	01/26/2017	Sampling Date:	01/23/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

**Sample ID: SP 3 @ 3' (H700202-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2000	16.0	01/31/2017	ND	432	108	400	3.64		

**Sample ID: SP 3 @ 4' (H700202-14)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	01/31/2017	ND	432	108	400	3.64	

**Sample ID: SP 3 @ 5' (H700202-15)**

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	01/31/2017	ND	432	108	400	3.64		

**Sample ID: SP 4 @ 1' (H700202-16)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	01/31/2017	ND	432	108	400	3.64	

**Sample ID: SP 4 @ 3' (H700202-17)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2360	16.0	01/31/2017	ND	432	108	400	3.64		

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Fax To: (575) 397-0397

Received:	01/26/2017	Sampling Date:	01/23/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

**Sample ID: SP 4 @ 4' (H700202-18)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/31/2017	ND	432	108	400	3.64		

**Sample ID: SP 5 @ 1' (H700202-19)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/31/2017	ND	1.98	98.8	2.00	0.451	
Toluene*	<0.050	0.050	01/31/2017	ND	2.01	100	2.00	0.376	
Ethylbenzene*	<0.050	0.050	01/31/2017	ND	2.06	103	2.00	0.437	
Total Xylenes*	<0.150	0.150	01/31/2017	ND	5.86	97.7	6.00	0.156	
Total BTEX	<0.300	0.300	01/31/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	01/31/2017	ND	432	108	400	0.00	QM-07

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	01/28/2017	ND	192	96.1	200	0.0655	
DRO >C10-C28	<10.0	10.0	01/28/2017	ND	208	104	200	2.56	

Surrogate: 1-Chlorooctane 92.5 % 35-147

Surrogate: 1-Chlorooctadecane 83.4 % 28-171

Cardinal Laboratories

\*=Accredited Analyte

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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:	01/26/2017	Sampling Date:	01/23/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

**Sample ID: SP 5 @ 3' (H700202-20)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16000	16.0	01/31/2017	ND	432	108	400	0.00		

**Sample ID: SP 5 @ 5' (H700202-21)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10100	16.0	01/31/2017	ND	432	108	400	0.00		

**Sample ID: SP 5 @ 6' (H700202-22)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/31/2017	ND	432	108	400	0.00		

**Sample ID: SP 5 @ 7' (H700202-23)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/31/2017	ND	432	108	400	0.00	

**Sample ID: SP 6 @ 1' (H700202-24)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14000	16.0	01/31/2017	ND	432	108	400	0.00	

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\*=Accredited Analyte

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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: 01/26/2017  
Reported: 02/01/2017  
Project Name: FEDERAL 12 - 1H BATTERY  
Project Number: NONE GIVEN  
Project Location: LEA COUNTY, NM

Sampling Date: 01/24/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Celey D. Keene

**Sample ID: SP 6 @ 3' (H700202-25)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	34000	16.0	01/31/2017	ND	432	108	400	0.00	

**Sample ID: SP 6 @ 5' (H700202-26)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	02/01/2017	ND	432	108	400	0.00	

**Sample ID: SP 6 @ 6' (H700202-27)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/01/2017	ND	432	108	400	0.00	

**Sample ID: SP 7 @ 1' (H700202-28)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	15200	16.0	02/01/2017	ND	432	108	400	0.00		

**Sample ID: SP 7 @ 3' (H700202-29)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	31200	16.0	02/01/2017	ND	432	108	400	0.00	

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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: 01/26/2017  
Reported: 02/01/2017  
Project Name: FEDERAL 12 - 1H BATTERY  
Project Number: NONE GIVEN  
Project Location: LEA COUNTY, NM

Sampling Date: 01/24/2017  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Celey D. Keene

**Sample ID: SP 7 @ 5' (H700202-30)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	02/01/2017	ND	432	108	400	0.00		

**Sample ID: SP 7 @ 6' (H700202-31)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/01/2017	ND	432	108	400	0.00	

**Sample ID: SP 8 @ 1' (H700202-32)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	02/01/2017	ND	432	108	400	0.00	

**Sample ID: SP 8 @ 3' (H700202-33)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	17200	16.0	02/01/2017	ND	432	108	400	0.00		

**Sample ID: SP 8 @ 5' (H700202-34)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	02/01/2017	ND	432	108	400	0.00	

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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:	01/26/2017	Sampling Date:	01/24/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

**Sample ID: SP 8 @ 6' (H700202-35)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/01/2017	ND	432	108	400	0.00	

**Sample ID: SP 9 @ 1' (H700202-36)**

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/31/2017	ND	1.98	98.8	2.00	0.451		
Toluene*	<0.050	0.050	01/31/2017	ND	2.01	100	2.00	0.376		
Ethylbenzene*	<0.050	0.050	01/31/2017	ND	2.06	103	2.00	0.437		
Total Xylenes*	<0.150	0.150	01/31/2017	ND	5.86	97.7	6.00	0.156		
Total BTEX	<0.300	0.300	01/31/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14400	16.0	02/01/2017	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	01/28/2017	ND	192	96.1	200	0.0655	
DRO >C10-C28	<10.0	10.0	01/28/2017	ND	208	104	200	2.56	

Surrogate: 1-Chlorooctane 96.2 % 35-147

Surrogate: 1-Chlorooctadecane 105 % 28-171

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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: 01/26/2017  
 Reported: 02/01/2017  
 Project Name: FEDERAL 12 - 1H BATTERY  
 Project Number: NONE GIVEN  
 Project Location: LEA COUNTY, NM

 Sampling Date: 01/24/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Celey D. Keene

**Sample ID: SP 9 @ 3' (H700202-37)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	02/01/2017	ND	432	108	400	0.00	

**Sample ID: SP 9 @ 5' (H700202-38)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	02/01/2017	ND	432	108	400	0.00	

**Sample ID: SP 9 @ 6' (H700202-39)**

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	01/31/2017	ND	432	108	400	0.00	

**Sample ID: NORTH SAMPLE @ 1' (H700202-40)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/31/2017	ND	432	108	400	0.00	

**Sample ID: EAST SAMPLE @ 1' (H700202-41)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/31/2017	ND	432	108	400	0.00	

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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:	01/26/2017	Sampling Date:	01/24/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	FEDERAL 12 - 1H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

**Sample ID: WEST SAMPLE @ 1' (H700202-42)**

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	01/31/2017	ND	432	108	400	0.00	

**Sample ID: SOUTH SAMPLE @ 1' (H700202-43)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/31/2017	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report



---

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: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: FEDERAL 12-1H BATTERY

Project Location: LEA COUNTY, NM

Sampler Name: JEFF ORNELAS

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H100202

SP1 @ 1'

SP1 @ 3'

SP1 @ 5'

SP1 @ 8'

SP1 @ 9'

SP1 @ 10'

SP2 @ 1'

SP2 @ 3'

SP2 @ 4'

SP2 @ 5'

Relinquished By:

Received By:

Date:

Time:

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

2 of 2

Page 15 of 18





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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.						BILL TO						ANALYSIS REQUEST							
Project Manager: Cliff Brunson						P.O. #:													
Address: P.O. Box 805						Company: Oxy													
City: Hobbs						Attn: A. S. Summers													
State: NM Zip: 88241																			
Phone #: 575-397-6388 Fax #: 575-397-0397						Address:													
Project #: Project Owner: Oxy						City:													
Project Name: FEDERAL 12-1H BATTERY						State: Zip:													
Project Location: LEA COUNTY, NM						Phone #:													
Sampler Name: JEFF ORNELAS						Fax #:													
FOR LAB USE ONLY																			
Lab I.D.						Sample I.D.													
H100202						(G)RAB OR (C)OMP.													
						# CONTAINERS													
						GROUNDWATER													
						WASTEWATER													
SP5 @ 5'						SOIL													
SP5 @ 6'						OIL													
SP5 @ 7'						SLUDGE													
SP6 @ 1'						OTHER :													
SP6 @ 3'						ACID/BASE:													
SP6 @ 5'						ICE / COOL													
SP6 @ 6'						OTHER :													
SP7 @ 1'						DATE													
SP7 @ 3'						TIME													
SP7 @ 5'																			
SP7 @ 5'																			
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Relinquished By: [Signature]						Date: 1/24/17													
Time: 3:00pm																			
Received By: [Signature]																			
Reinquinshed By: [Signature]																			
Date: 1/24/17																			
Time: 5:00																			
Delivered By: (Circle One)						Sample Condition						CHECKED BY: (Initials)							
Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						CM #75							
Sampler - UPS - Bus - Other:																			
REMARKS:																			
Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:																			
Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No 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

### BILL TO

### ANALYSIS REQUEST

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: FEDERAL 12-1H BATTERY

Project Location: LEA COUNTY, NM

Sampler Name: JEFF ORNELAS

P.O. #:

Company: Dxy

Attn: Carlos Summads

Address:

City:

State: Zip:

Phone #:

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H700207

SP7 @ 6'

SP8 @ 1'

SP8 @ 3'

SP8 @ 5'

SP8 @ 6'

SP9 @ 1'

SP9 @ 3'

SP9 @ 5'

SP9 @ 6'

NORTH SAMPLE @ 1'

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

CI  
TPH  
BTEX

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:

Received By:

Phone Result: ☐ Yes ☐ No Add'l Phone #:

Fax Result: ☐ Yes ☐ No Add'l Fax #:

Relinquished By:

Received By:

REMARKS:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition  
Cool ☐ Yes ☐ No  
Intact ☐ Yes ☐ No

CHECKED BY:  
(Initials)

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





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

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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

Form C-141  
Revised August 8, 2011

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

Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

### Release Notification and Corrective Action

#### OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Casey Summers
Address	PO Box 4294; Houston, TX 77210	Telephone No.	(575) 513-8289
Facility Name	Federal 12-1H Battery	Facility Type	Battery
Surface Owner	BLM	Mineral Owner	
		API No.	30-015-40840

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	7	23S	31E					Eddy County, NM

Latitude N 32.32150° Longitude W 103.81203°

#### NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	20 bbls	Volume Recovered	10 bbls
Source of Release	Ruptured water transfer line	Date and Hour of Occurrence	12/16/2016	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?	Mike Bratcher, Heather Patterson, Crystal Weaver- NMOCD; Shelly Tucker- BLM		
By Whom?	Kathy@ BBC International, Inc.	Date and Hour	12/16/2016 @ 4:43 pm		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

A ruptured water transfer line leaked 20 bbls of produced water into the pasture. A vacuum truck recovered 10 bbls of produced water and the line was repaired.

Describe Area Affected and Cleanup Action Taken.\*

The affected area is approximately 175' x 75' off location in the pasture. Remediation will be completed in accordance with a plan approved by both NMOCD and the BLM.

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:	<b>OIL CONSERVATION DIVISION</b>		
Printed Name: Casey Summers	Approved by Environmental Specialist:		
Title: NM Environmental Advisor	Approval Date:	Expiration Date:	
E-mail Address: Casey_Summers@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 12-29-16	Phone: (575) 513-8289		

\* Attach Additional Sheets If Necessary