

Closure Report

Site Description

Site Name:	Big Walt CTB
Company:	Oxy Permian Ltd.
Legal Description:	U/L H, Section 2, T22S, R24E
County:	Eddy County, NM
GPS Coordinates:	N 32.42237° W 104.46065°

Release Data

Date of Release:	12/19/2016
Type of Release:	Oil
Source of Release:	Tank spill due to battery PLC failure
Volume of Release:	10 bbls
Volume Recovered:	8 bbls

Remediation Specifications

Remediation Parameters:	Excavate the entire leak to a depth of 6 inches, except in the area of SP1 which will be excavated to a depth of 1 foot. Backfill the site with clean soil.	
Remediation Activities:	April 2017	
Plan Sent to OCD:	02/07/2017	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	02/15/2017	Email from Mike Bratcher to Cliff Brunson
Plan Sent to SLO:	02/07/2017	Email from Cliff Brunson to Amber Groves
SLO Approval of Plan:	02/27/2017	Email from Amber Groves to Cliff Brunson

Supporting Documentation

Initial C-141	Signed 01/09/2017
Final C-141	Upon completion
Site Diagram	January 2017
Groundwater Plot	75'
TOPO Maps	January 2017
Lab Summary	01/26/2017
Lab Analysis	01/26/2017
Correspondence	Request and approval of remediation plan via email

Request for Closure

Based on the completion of the remediation plan as agreed upon, Oxy Permian Ltd. requests closure approval from NMOCD.

Casey Summers, NM Environmental Advisor, Oxy Permian Ltd.

04/25/2016

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

Form C-141
Revised August 8, 2011

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	Big Walt CTB	Facility Type	Battery

Surface Owner	State	Mineral Owner	API No.	30-015-33442
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	2	22S	24E					Eddy County, NM

Latitude N 32.42237° Longitude W 104.46065°

NATURE OF RELEASE

Type of Release	Oil	Volume of Release	10 bbls	Volume Recovered	8 bbls
Source of Release	Tank spill due to battery PLC failure	Date and Hour of Occurrence	12/19/2016	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, Crystal Weaver- NMOCD		
By Whom?	Kathy Purvis, BBC International	Date and Hour	12/20/2016 @ 2:42 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.*

Battery PLC failure caused a tank to spill 10 bbls of oil on location inside the berm. A vacuum truck recovered 8 bbls of oil and the PLC was restored to service.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 95' x 135' on location inside the berm. 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:	<u>OIL CONSERVATION DIVISION</u>		
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:	1-9-2017	Phone:	(575) 513-8289

* Attach Additional Sheets If Necessary

Oxy, Big Walt CTB

Leak Date: 12/19/2016
Eddy County, NM
API# 30-015-33442
RP# 2RP-4069

Legend

-  1' Excavation
-  6" Excavation
-  Spill Area
-  Sample Points, Hand Auger



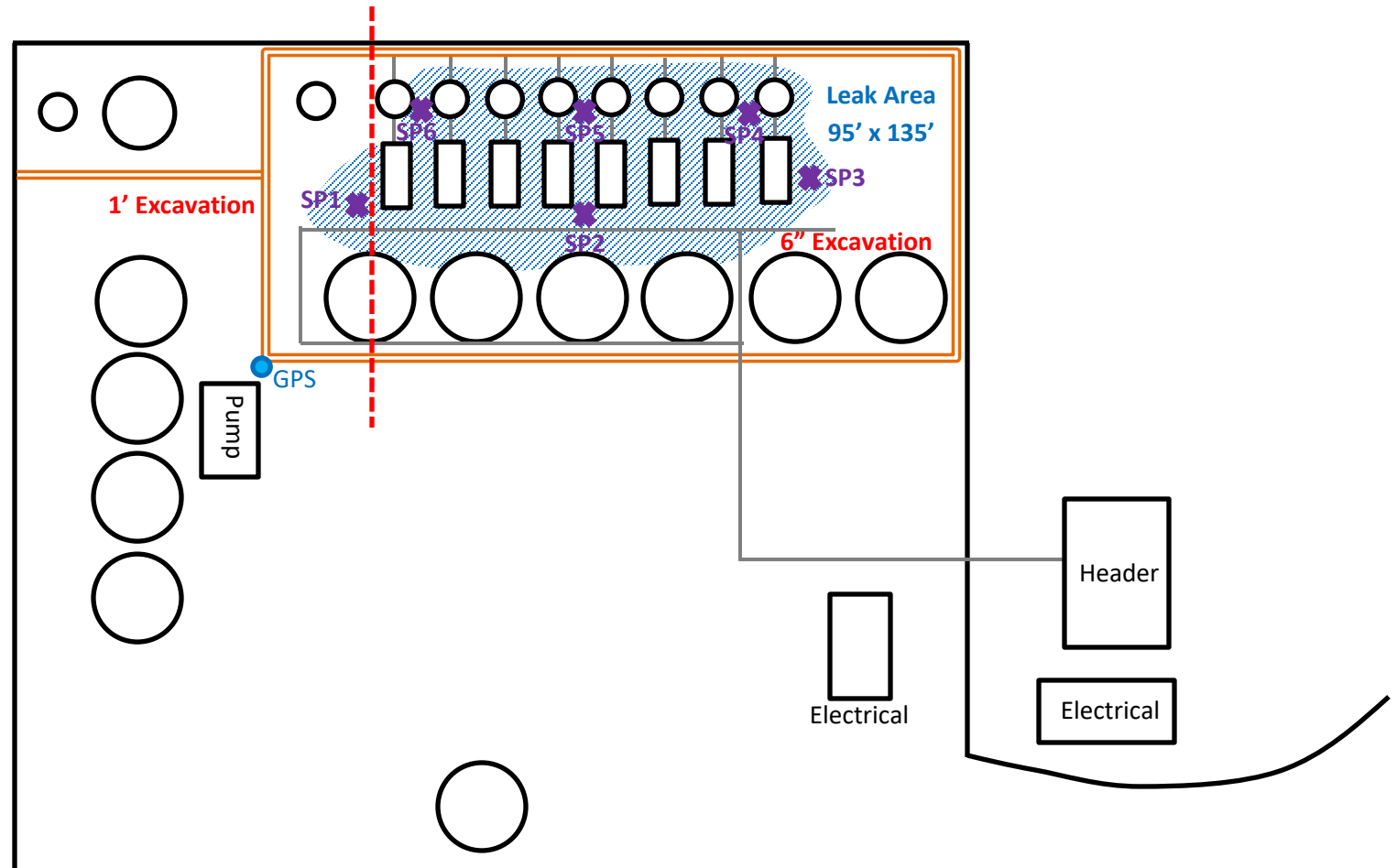
Google Earth

© 2016 Google

300 ft



Oxy
Big Walt CTB (12/19/16)



U/L H, Section 2, T22S, R24E

Eddy County, NM

N 32.42237° W 104.46065°

API# 30-015-33442

BBC International, Inc.

**Oxy
Big Walt CTB**

Date: 01/03/2016

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2016

Oxy, Big Walt CTB

Samples, Hand Auger

SP1, N 32.42267 W-104.46115

SP2, N 32.42264 W-104.46095

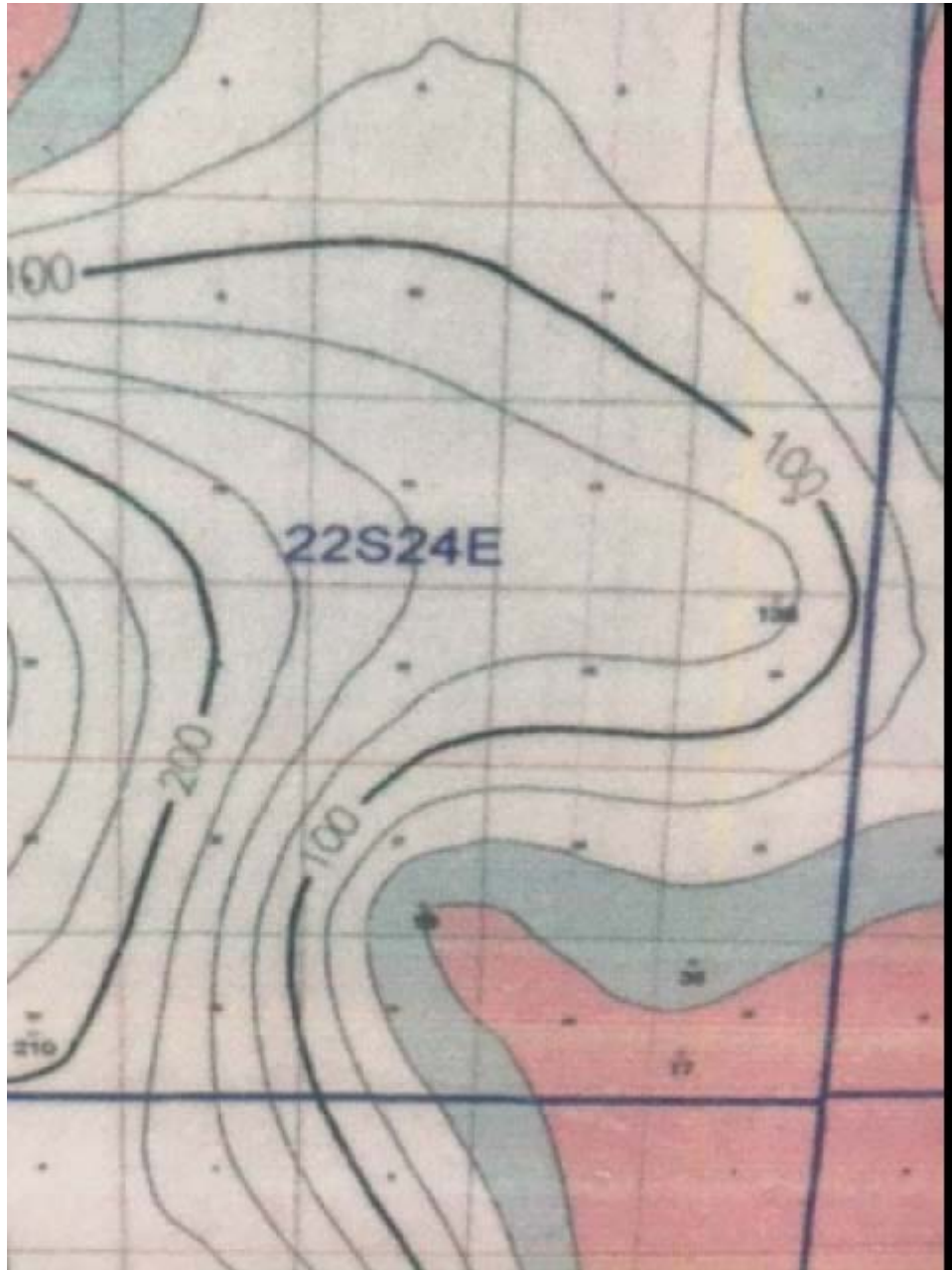
SP3, N 32.42260 W-104.46079

SP4, N 32.42267 W-104.46082

SP5, N 32.42270 W-104.46094

SP6, N 32.42273 W-104.46108

Oxy, Big Walt CTB
U/L H, Section 2, T22S, R24E
Groundwater: 75'





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C_02428			ED	4	2	1	12	22S	24E	551426	3586017*	<input type="text"/>	1586	450	400 50

Average Depth to Water: **400 feet**

Minimum Depth: **400 feet**

Maximum Depth: **400 feet**

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 550518

Northing (Y): 3587318

Radius: 1700

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

4/25/17 11:20 AM

WATER COLUMN/ AVERAGE DEPTH TO
WATER

Public Land Survey System (PLSS)

Q64:Q16: SEQ4: NESec: 02Tws: 22SRng: 24E

State Plane Coordinate System - NAD27

X:ftY:ftZone:

State Plane Coordinate System - NAD83

X:ftY:ftZone:

Degrees/Minutes/Seconds

Longitude (X):Degrees: °Minutes: 'Seconds: "

Latitude (Y):Degrees: °Minutes: 'Seconds: "

UTM - NAD27

Easting (X):mtrsNorthing (Y):mtrsZone:

SUBMIT

All Conversion Results are displayed as NAD 1983 UTM Zone 13

Easting (X):550518.0mtrsNorthing (Y):3587318.0mtrs

~~ Please keep screen open to copy UTM values for Reports. ~~



Groundwater Plot

Oxy Big Walt CTB

County
Eddy

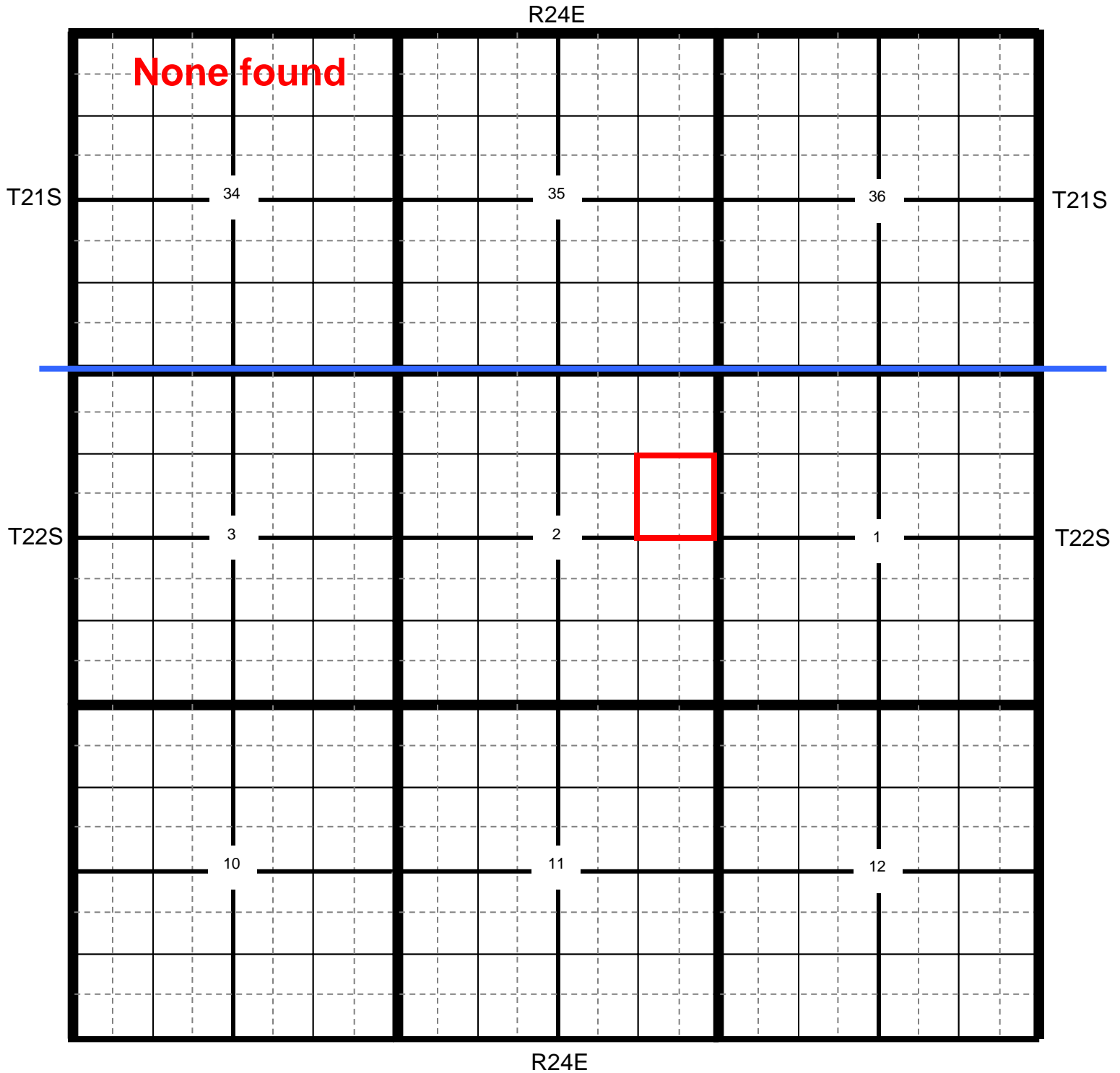
Unit Letter
H

Section
2

Township
22S

Range
24E

Trend Map 75'



★ Location

● OCD

● USGS

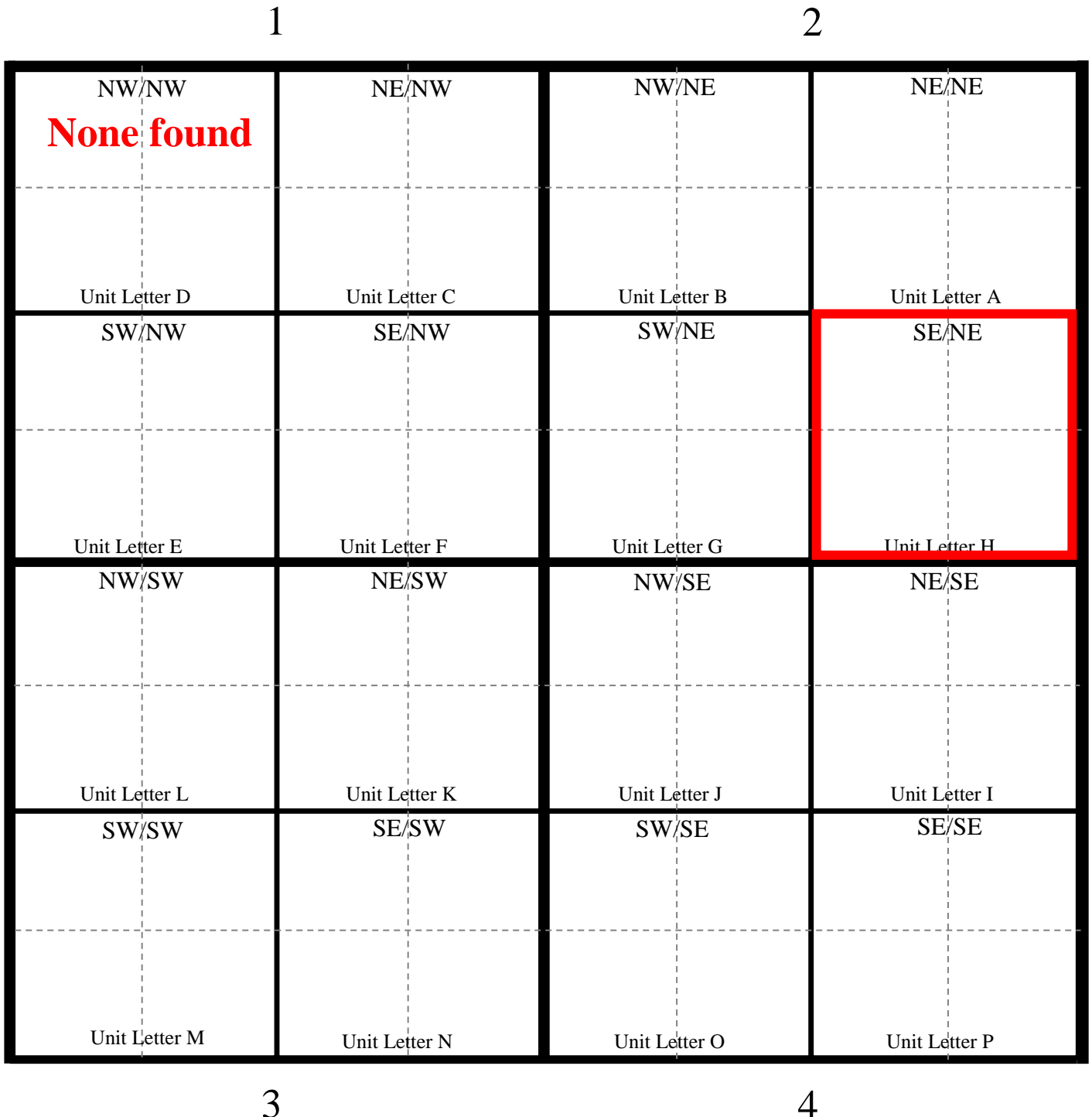
● SEO

● All Databases

Oxy Big Walt CTB

County Eddy Unit Letter H Section 2 Township 22S Range 24E

Trend Map 75'



Oxy

Big Walt CTB

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

AZOTEA PEAK QUADRANGLE
NEW MEXICO-EDDY CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



PRODUCED BY THE UNITED STATES GEOLOGICAL SURVEY
CONTROL BY THE UNITED STATES GEOLOGICAL SURVEY
COMPILED FROM AERIAL PHOTOGRAPHS TAKEN 1977
FIELD CHECKED 1978 MAP EDITED 1980
PROJECTION TRANSVERSE MERCATOR
GRID THE ALUTER UNIVERSAL TRANSVERSE MERCATOR
DAWMFOOT STATE GRID TICS NEW MEXICO EAST ZONE
UTM GRID DECLINATION 1983 NORTH AMERICAN DATUM
1983 MAGNETIC NORTH DECLINATION 1983 EAST ZONE
VERTICAL DATUM NATIONAL GEODETIC VERTICAL DATUM OF THE
HORIZONTAL DATUM 1983 NORTH AMERICAN DATUM
To place on the predicted North American Datum of 1983, move
the projection lines as shown by dashed center ticks
(9 centimeters south and 47 meters east)
There may be private inholdings within the boundaries of any
Federal and State Reservations shown on this map.

PROVISIONAL MAP
Produced from original
manuscript drawings. Infor-
mation shown as of date of
field check.

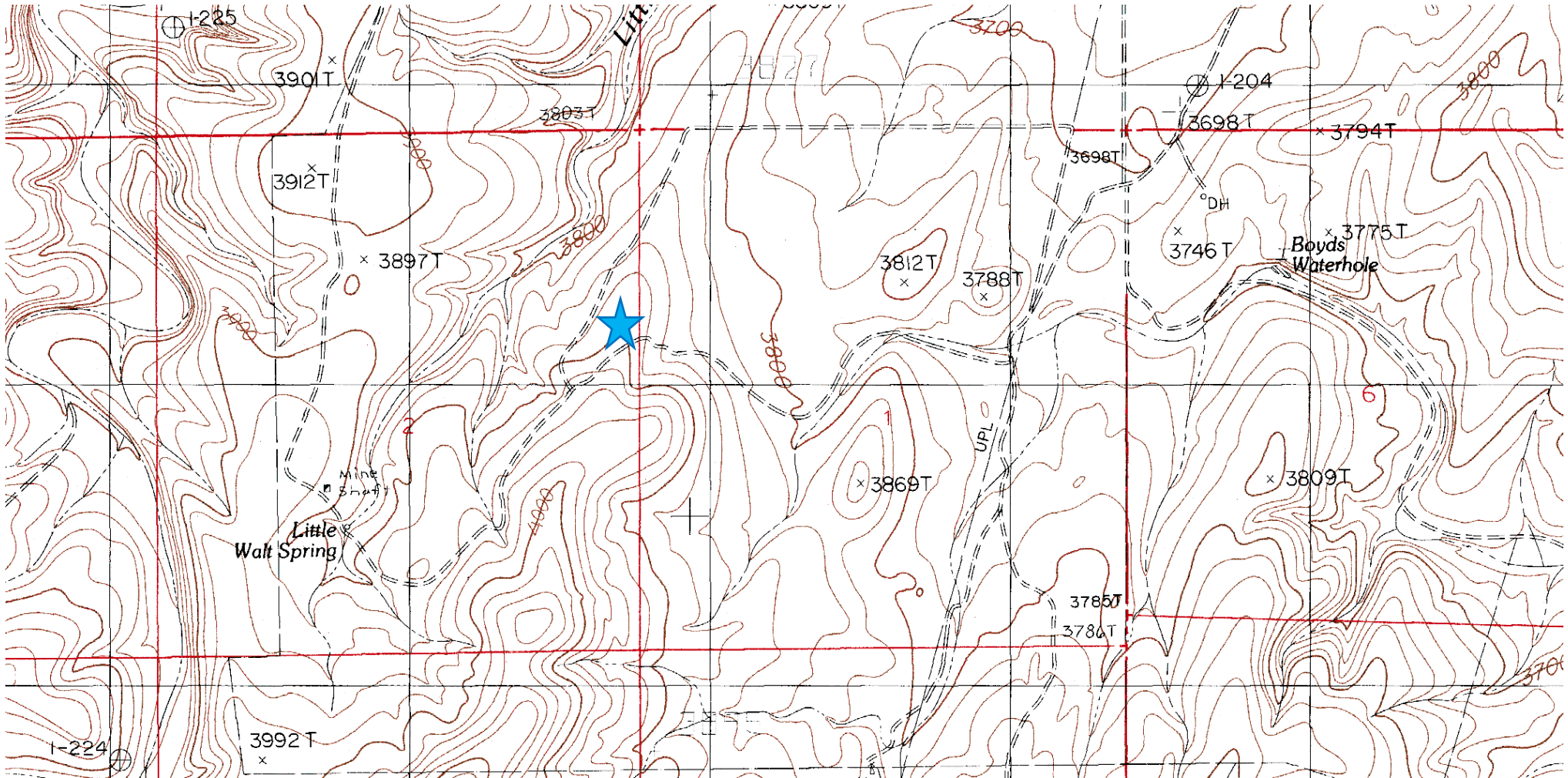
SCALE 1:24 000
CONTOUR INTERVAL 20 FEET
THIS MAP COMPLES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225
OR RESTON, VIRGINIA 22092

1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8

ROAD LEGEND
Improved Road
Unimproved Road
Trail
Interstate Route
U.S. Route
State Route
AZOTEA PEAK, NEW MEXICO
PROVISIONAL EDITION 1985
81014-04-TF-024

Oxy

Big Walt CTB



Laboratory Analytical Results Summary
Big Walt CTB

		Sample	SP1 @ SURFACE	SP1 @ 1'
Analyte	Method	Date	1/26/17	1/26/17
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.500	<0.100
Toluene	BTEX 8021B		4.31	0.987
Ethylbenzene	BTEX 8021B		2.32	0.917
Total Xylenes	BTEX 8021B		29.8	9.22
Total BTEX	BTEX 8021B		36.4	11.1
Chloride	SM4500Cl-B		16	32
GRO	TPH 8015M		536	121
DRO	TPH 8015M		8120	2060

		Sample	SP2 @ SURFACE	SP2 @ 1'
Analyte	Method	Date	1/26/17	1/26/17
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.200	<0.050
Toluene	BTEX 8021B		0.534	<0.050
Ethylbenzene	BTEX 8021B		0.741	<0.050
Total Xylenes	BTEX 8021B		9.17	<0.150
Total BTEX	BTEX 8021B		10.4	<0.300
Chloride	SM4500Cl-B		32	80
GRO	TPH 8015M		219	<10.0
DRO	TPH 8015M		4480	70.6

		Sample	SP3 @ SURFACE	SP3 @ 1'
Analyte	Method	Date	1/26/17	1/26/17
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.705	<0.050
Toluene	BTEX 8021B		9.95	<0.050
Ethylbenzene	BTEX 8021B		3.24	<0.050
Total Xylenes	BTEX 8021B		35.5	0.193
Total BTEX	BTEX 8021B		49.4	<0.300
Chloride	SM4500Cl-B		16	64
GRO	TPH 8015M		538	<10.0
DRO	TPH 8015M		15200	179

		Sample	SP4 @ SURFACE	SP4 @ 1'
Analyte	Method	Date	1/26/17	1/26/17
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.200	<0.050
Toluene	BTEX 8021B		3.87	0.393
Ethylbenzene	BTEX 8021B		2.09	0.51
Total Xylenes	BTEX 8021B		19.2	4.66
Total BTEX	BTEX 8021B		25.1	5.56
Chloride	SM4500Cl-B		16	32
GRO	TPH 8015M		440	45.3
DRO	TPH 8015M		13600	958

		Sample	SP5 @ SURFACE	SP5 @ 1'
Analyte	Method	Date	1/26/17	1/26/17
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		0.249	<0.050
Ethylbenzene	BTEX 8021B		0.536	<0.050
Total Xylenes	BTEX 8021B		5.44	0.205
Total BTEX	BTEX 8021B		6.23	<0.300
Chloride	SM4500Cl-B		32	48
GRO	TPH 8015M		75.5	<10.0
DRO	TPH 8015M		3940	1020

		Sample	SP6 @ SURFACE	SP6 @ 1'
Analyte	Method	Date	1/26/17	1/26/17
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.100	<0.050
Toluene	BTEX 8021B		<0.100	<0.050
Ethylbenzene	BTEX 8021B		<0.100	<0.050
Total Xylenes	BTEX 8021B		0.521	<0.150
Total BTEX	BTEX 8021B		<0.600	<0.300
Chloride	SM4500Cl-B		48	32
GRO	TPH 8015M		117	<10.0
DRO	TPH 8015M		10200	338



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

February 03, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: BIG WALT CTB

Enclosed are the results of analyses for samples received by the laboratory on 01/27/17 11:50.

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.

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: 01/27/2017
 Reported: 02/03/2017
 Project Name: BIG WALT CTB
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/26/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ SURFACE (H700207-01)

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	02/01/2017	ND	1.98	98.8	2.00	0.451	
Toluene*	4.31	0.500	02/01/2017	ND	2.01	100	2.00	0.376	
Ethylbenzene*	2.32	0.500	02/01/2017	ND	2.06	103	2.00	0.437	
Total Xylenes*	29.8	1.50	02/01/2017	ND	5.86	97.7	6.00	0.156	
Total BTX	36.4	3.00	02/01/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	16.0	16.0	02/01/2017	ND	432	108	400	0.00	

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	536	10.0	01/30/2017	ND	188	93.8	200	3.89		
DRO >C10-C28	8120	10.0	01/30/2017	ND	223	111	200	4.73		

Surrogate: 1-Chlorooctane 148 % 35-147

Surrogate: 1-Chlorooctadecane 248 % 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: 01/27/2017
Reported: 02/03/2017
Project Name: BIG WALT CTB
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 01/26/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1' (H700207-02)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	02/01/2017	ND	1.98	98.8	2.00	0.451	
Toluene*	0.987	0.100	02/01/2017	ND	2.01	100	2.00	0.376	
Ethylbenzene*	0.917	0.100	02/01/2017	ND	2.06	103	2.00	0.437	
Total Xylenes*	9.22	0.300	02/01/2017	ND	5.86	97.7	6.00	0.156	
Total BTX	11.1	0.600	02/01/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 73.6-140

Chloride, SM4500CI-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	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	121	10.0	01/30/2017	ND	188	93.8	200	3.89	
DRO >C10-C28	2060	10.0	01/30/2017	ND	223	111	200	4.73	

Surrogate: 1-Chlorooctane 94.4 % 35-147

Surrogate: 1-Chlorooctadecane 114 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 01/27/2017
Reported: 02/03/2017
Project Name: BIG WALT CTB
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 01/26/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 @ SURFACE (H700207-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	02/01/2017	ND	1.80	90.2	2.00	0.0822	
Toluene*	0.534	0.200	02/01/2017	ND	1.87	93.4	2.00	0.314	
Ethylbenzene*	0.741	0.200	02/01/2017	ND	1.92	96.0	2.00	0.650	
Total Xylenes*	9.17	0.600	02/01/2017	ND	5.45	90.9	6.00	0.777	
Total BTX	10.4	1.20	02/01/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.6-140

Chloride, SM4500CI-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	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	219	10.0	01/30/2017	ND	188	93.8	200	3.89	
DRO >C10-C28	4480	10.0	01/30/2017	ND	223	111	200	4.73	

Surrogate: 1-Chlorooctane 126 % 35-147

Surrogate: 1-Chlorooctadecane 157 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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 P.O. Box 805
 Hobbs NM, 88241
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 Received: 01/27/2017
 Reported: 02/03/2017
 Project Name: BIG WALT CTB
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/26/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 1' (H700207-04)

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	02/01/2017	ND	1.80	90.2	2.00	0.0822	
Toluene*	<0.050	0.050	02/01/2017	ND	1.87	93.4	2.00	0.314	
Ethylbenzene*	<0.050	0.050	02/01/2017	ND	1.92	96.0	2.00	0.650	
Total Xylenes*	<0.150	0.150	02/01/2017	ND	5.45	90.9	6.00	0.777	
Total BTX	<0.300	0.300	02/01/2017	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/01/2017	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	01/30/2017	ND	188	93.8	200	3.89	
DRO >C10-C28	70.6	10.0	01/30/2017	ND	223	111	200	4.73	

Surrogate: 1-Chlorooctane 80.6 % 35-147

Surrogate: 1-Chlorooctadecane 87.8 % 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: 01/27/2017
Reported: 02/03/2017
Project Name: BIG WALT CTB
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 01/26/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 3 @ SURFACE (H700207-05)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.705	0.500	02/01/2017	ND	1.80	90.2	2.00	0.0822	
Toluene*	9.95	0.500	02/01/2017	ND	1.87	93.4	2.00	0.314	
Ethylbenzene*	3.24	0.500	02/01/2017	ND	1.92	96.0	2.00	0.650	
Total Xylenes*	35.5	1.50	02/01/2017	ND	5.45	90.9	6.00	0.777	
Total BTX	49.4	3.00	02/01/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/01/2017	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	538	50.0	01/30/2017	ND	188	93.8	200	3.89		
DRO >C10-C28	15200	50.0	01/30/2017	ND	223	111	200	4.73		

Surrogate: 1-Chlorooctane 123 % 35-147

Surrogate: 1-Chlorooctadecane 465 % 28-171

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Analytical Results For:

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 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
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 Received: 01/27/2017
 Reported: 02/03/2017
 Project Name: BIG WALT CTB
 Project Number: NONE GIVEN
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/26/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ 1' (H700207-06)

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	02/01/2017	ND	1.80	90.2	2.00	0.0822	
Toluene*	<0.050	0.050	02/01/2017	ND	1.87	93.4	2.00	0.314	
Ethylbenzene*	<0.050	0.050	02/01/2017	ND	1.92	96.0	2.00	0.650	
Total Xylenes*	0.193	0.150	02/01/2017	ND	5.45	90.9	6.00	0.777	
Total BTEX	<0.300	0.300	02/01/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/01/2017	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	01/30/2017	ND	188	93.8	200	3.89	
DRO >C10-C28	179	10.0	01/30/2017	ND	223	111	200	4.73	

Surrogate: 1-Chlorooctane 79.3 % 35-147

Surrogate: 1-Chlorooctadecane 87.6 % 28-171

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P.O. Box 805
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Fax To: (575) 397-0397

Received: 01/27/2017
Reported: 02/03/2017
Project Name: BIG WALT CTB
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 01/26/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 4 @ SURFACE (H700207-07)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	02/01/2017	ND	1.80	90.2	2.00	0.0822	
Toluene*	3.87	0.200	02/01/2017	ND	1.87	93.4	2.00	0.314	
Ethylbenzene*	2.09	0.200	02/01/2017	ND	1.92	96.0	2.00	0.650	
Total Xylenes*	19.2	0.600	02/01/2017	ND	5.45	90.9	6.00	0.777	
Total BTX	25.1	1.20	02/01/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/01/2017	ND	432	108	400	3.64	

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	440	10.0	01/30/2017	ND	188	93.8	200	3.89		
DRO >C10-C28	13600	10.0	01/30/2017	ND	223	111	200	4.73		

Surrogate: 1-Chlorooctane 156 % 35-147

Surrogate: 1-Chlorooctadecane 426 % 28-171

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Received: 01/27/2017
Reported: 02/03/2017
Project Name: BIG WALT CTB
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 01/26/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 4 @ 1' (H700207-08)

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	02/01/2017	ND	1.80	90.2	2.00	0.0822	
Toluene*	0.393	0.050	02/01/2017	ND	1.87	93.4	2.00	0.314	
Ethylbenzene*	0.510	0.050	02/01/2017	ND	1.92	96.0	2.00	0.650	
Total Xylenes*	4.66	0.150	02/01/2017	ND	5.45	90.9	6.00	0.777	
Total BTX	5.56	0.300	02/01/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 73.6-140

Chloride, SM4500CI-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	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	45.3	10.0	01/30/2017	ND	188	93.8	200	3.89	
DRO >C10-C28	958	10.0	01/30/2017	ND	223	111	200	4.73	

Surrogate: 1-Chlorooctane 85.1 % 35-147

Surrogate: 1-Chlorooctadecane 115 % 28-171

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Fax To: (575) 397-0397

Received: 01/27/2017
Reported: 02/03/2017
Project Name: BIG WALT CTB
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 01/26/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 5 @ SURFACE (H700207-09)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2017	ND	1.80	90.2	2.00	0.0822	
Toluene*	0.249	0.050	02/01/2017	ND	1.87	93.4	2.00	0.314	
Ethylbenzene*	0.536	0.050	02/01/2017	ND	1.92	96.0	2.00	0.650	
Total Xylenes*	5.44	0.150	02/01/2017	ND	5.45	90.9	6.00	0.777	
Total BTX	6.23	0.300	02/01/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 73.6-140

Chloride, SM4500CI-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	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	75.5	10.0	01/30/2017	ND	188	93.8	200	3.89	
DRO >C10-C28	3940	10.0	01/30/2017	ND	223	111	200	4.73	

Surrogate: 1-Chlorooctane 77.5 % 35-147

Surrogate: 1-Chlorooctadecane 151 % 28-171

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Analytical Results For:

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

Received: 01/27/2017
Reported: 02/03/2017
Project Name: BIG WALT CTB
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 01/26/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 5 @ 1' (H700207-10)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2017	ND	1.80	90.2	2.00	0.0822	
Toluene*	<0.050	0.050	02/01/2017	ND	1.87	93.4	2.00	0.314	
Ethylbenzene*	<0.050	0.050	02/01/2017	ND	1.92	96.0	2.00	0.650	
Total Xylenes*	0.205	0.150	02/01/2017	ND	5.45	90.9	6.00	0.777	
Total BTEx	<0.300	0.300	02/01/2017	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/02/2017	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	01/31/2017	ND	194	96.9	200	0.147	
DRO >C10-C28	1020	10.0	01/31/2017	ND	234	117	200	0.541	

Surrogate: 1-Chlorooctane 88.5 % 35-147

Surrogate: 1-Chlorooctadecane 116 % 28-171

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

Received: 01/27/2017
Reported: 02/03/2017
Project Name: BIG WALT CTB
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 01/26/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 6 @ SURFACE (H700207-11)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	02/01/2017	ND	1.80	90.2	2.00	0.0822	
Toluene*	<0.100	0.100	02/01/2017	ND	1.87	93.4	2.00	0.314	
Ethylbenzene*	<0.100	0.100	02/01/2017	ND	1.92	96.0	2.00	0.650	
Total Xylenes*	0.521	0.300	02/01/2017	ND	5.45	90.9	6.00	0.777	
Total BTX	<0.600	0.600	02/01/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140

Chloride, SM4500CI-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/02/2017	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	117	50.0	01/31/2017	ND	194	96.9	200	0.147	
DRO >C10-C28	10200	50.0	01/31/2017	ND	234	117	200	0.541	

Surrogate: 1-Chlorooctane 148 % 35-147

Surrogate: 1-Chlorooctadecane 384 % 28-171

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Analytical Results For:

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

Received: 01/27/2017
Reported: 02/03/2017
Project Name: BIG WALT CTB
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 01/26/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 6 @ 1' (H700207-12)

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	02/01/2017	ND	1.80	90.2	2.00	0.0822	
Toluene*	<0.050	0.050	02/01/2017	ND	1.87	93.4	2.00	0.314	
Ethylbenzene*	<0.050	0.050	02/01/2017	ND	1.92	96.0	2.00	0.650	
Total Xylenes*	<0.150	0.150	02/01/2017	ND	5.45	90.9	6.00	0.777	
Total BTX	<0.300	0.300	02/01/2017	ND					

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

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	02/02/2017	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	01/31/2017	ND	194	96.9	200	0.147	
DRO >C10-C28	338	10.0	01/31/2017	ND	234	117	200	0.541	

Surrogate: 1-Chlorooctane 87.2 % 35-147

Surrogate: 1-Chlorooctadecane 97.3 % 28-171

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1082

Company Name: BBC International, Inc.		P.O. #:		ANALYSIS REQUEST	
Project Manager: Cliff Brunson		Company: Oxy			
Address: P.O. Box 805		Attn: Casey Summers			
City: Hobbs		Address:			
State: NM Zip: 88241		City:			
Phone #: 575-397-6388 Fax #: 575-397-0397		State: Zip:			
Project #:		Project Owner: Oxy			
Project Name: Biowalt CFB		City:			
Project Location: Eddy County, NM		State: Zip:			
Sampler Name: Price Brunson		Phone #:			
FOR LAB USE ONLY		Fax #:			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING	DATE	TIME	TPH	BTEX						
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :											
H1000207	SP1 @ Surface		1								11/26/17	10:30	✓	✓	✓	✓	✓	✓	✓	✓
	SP2 @ Surface		1									10:40	✓	✓	✓	✓	✓	✓	✓	✓
	SP3 @ Surface		1									10:55	✓	✓	✓	✓	✓	✓	✓	✓
	SP4 @ Surface		1									11:15	✓	✓	✓	✓	✓	✓	✓	✓
	SP5 @ Surface		1									12:00	✓	✓	✓	✓	✓	✓	✓	✓
	SP6 @ Surface		1									1:10	✓	✓	✓	✓	✓	✓	✓	✓
	SP7 @ Surface		1									1:30	✓	✓	✓	✓	✓	✓	✓	✓
	SP8 @ Surface		1									1:40	✓	✓	✓	✓	✓	✓	✓	✓

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Relinquished By: <u>Cliff Brunson</u>	Date: <u>11/26/17</u>	Received By: <u>Casey Summers</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #: _____
Relinquished By: <u>Casey Summers</u>	Date: <u>11/27/17</u>	Received By: <u>Casey Summers</u>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #: _____
Delivered By: (Circle One) <u>Casey Summers</u>	Time: <u>1:50</u>	Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact	CHECKED BY: <u>(initials)</u>	
Sampler - UPS - Bus - Other: <u>#75</u>	<u>2.00</u>	<input type="checkbox"/> Yes <input type="checkbox"/> No		

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



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From: Bratcher, Mike, EMNRD
To: [Cliff Brunson](#)
Cc: [Weaver, Crystal, EMNRD](#); [Casey Summers](#); [Jennifer Hudgens](#); [Ken Swinney](#); [Jennifer Gilkey](#); [Kathy Purvis](#); [agroves \(agroves@slo.state.nm.us\)](#)
Subject: RE: OXY - Big Walt CTB (2RP-4069) - Remediation Plan
Date: Wednesday, February 15, 2017 10:11:21 AM

RE: OXY USA * Big Walt CTB (Big Walt 2 St 10) * **2RP-4069** * DOR: 12/19/16

Cliff,

Your proposal for remediation of the above referenced release is approved. Please advise once remedial activities have been scheduled.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact me.

Mike Bratcher
NMOCD District 2
811 S. First St.
Artesia NM 88210
575-748-1283 Ext 108
mike.bratcher@state.nm.us

From: Cliff Brunson [<mailto:cbrunson@bbcinternational.com>]
Sent: Tuesday, February 7, 2017 3:09 PM
To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Cc: Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>; Casey Summers <Casey_Summers@oxy.com>; Jennifer Hudgens <jennifer_hudgens@oxy.com>; Ken Swinney <kswinney@bbcinternational.com>; Jennifer Gilkey <jgilkey@bbcinternational.com>; Kathy Purvis <kathy@bbcinternational.com>
Subject: OXY - Big Walt CTB (2RP-4069) - Remediation Plan

Mike,

This e-mail is to confirm our discussion concerning the remediation plan for the OXY Big Walt CTB release. I have attached the information packet that we used in our discussion with a cover page describing the remediation plan that we agreed upon.

If you would please reply via e-mail with your concurrence on this plan, it would be greatly appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland St.
Hobbs, NM 88240 USA
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From: Groves, Amber
To: [Bratcher, Mike, EMNRD](#); [Cliff Brunson](#)
Cc: [Weaver, Crystal, EMNRD](#); [Casey Summers](#); [Jennifer Hudgens](#); [Ken Swinney](#); [Jennifer Gilkey](#); [Kathy Purvis](#)
Subject: RE: OXY - Big Walt CTB (2RP-4069) - Remediation Plan
Date: Monday, February 27, 2017 3:24:06 PM
Attachments: [image001.png](#)
[image002.png](#)

Cliff,

NMSLO agrees with NMOCD on work plan approval.

Thank you,

Amber Groves

Remediation Specialist

Field Operations Division

(575)392-3697

(575)263-3209 cell

New Mexico State Land Office

2827 N. Dal Paso Suite 117

Hobbs, NM 88260

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Sent: Wednesday, February 15, 2017 10:11 AM
To: Cliff Brunson <cbrunson@bbcinternational.com>
Cc: Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>; Casey Summers <Casey_Summers@oxy.com>; Jennifer Hudgens <jennifer_hudgens@oxy.com>; Ken Swinney <kswinney@bbcinternational.com>; Jennifer Gilkey <jgilkey@bbcinternational.com>; Kathy Purvis <kathy@bbcinternational.com>; Groves, Amber <agroves@slo.state.nm.us>
Subject: RE: OXY - Big Walt CTB (2RP-4069) - Remediation Plan

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575-748-1283 Ext 108
mike.bratcher@state.nm.us

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Sent: Tuesday, February 7, 2017 3:09 PM
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Thanks, Cliff

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