

# Closure Report

**RECEIVED**

APR 04 2013

**NMOC ARTESIA**

Site Description	
Site Name:	DWU Federal #1
Company:	Oxy Permian Ltd.
Legal Description:	U/L J, Section 34, T19S, R28E
County:	Eddy County, NM
GPS Coordinates:	N 32.61549° W 104.16224°

Release Data	
Date of Release:	01/08/2011
Type of Release:	Oil and Produced Water
Source of Release:	Nipple from the bottom of the tank
Volume of Release:	301 bbls
Volume Recovered:	65 bbls

Remediation Specifications		
Remediation Parameters:	Excavate the spill areas around SP1 and SP3 to a depth of 3 feet. Excavate the spill area around SP2 to a depth of 4.5 feet. Excavate the spill areas around SP4, SP5, and SP6 to a depth of 1 foot. Inside the tank battery berm areas of SP7, SP8, and SP9 additional sampling will be conducted at a greater depth to locate a lower threshold of chloride impact. Then, a clay liner will be installed in the previously excavated site in the spill areas around SP7, SP8, and SP9. Confirmation sampling will be conducted. Then, all excavation areas will be backfilled with clean soil. Also, areas outside the battery will be seeded with the appropriate BLM seed mixture.	
Remediation Activities:	01/11/2013 to 02/15/2013	
Plan Sent to OCD:	09/11/2012	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	11/14/2012	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	December '12	Email from Cliff Brunson to Terry Gregston
BLM Approval of Plan:	12/14/2012	Email from Terry Gregston to Cliff Brunson

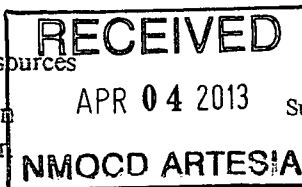
Supporting Documentation	
Initial C-141	Signed 01/12/2011
Final C-141	Signed and sent 3/4/2013
Site Diagram	June 2012 and January 2013
Groundwater Plot	100'
TOPO Maps	January 2013
Lab Summary	Delineation 06/08/2012 & Confirmation 12/28/12 to 01/14/2013
Lab Analysis	Delineation 06/08/2012 & Confirmation 12/28/12 to 01/14/2013
Correspondence	Remediation plan approval-OCD & BLM, Closure-BLM

Request for Closure	
Based on the completion of the remediation plan as agreed upon, BBC International requests closure approval from NMOC.	
Cliff Brunson, President of BBC International Inc.	04/03/2013

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, 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 October 10, 2003  
Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	OXY USA	Contact	Kelton Beaird
Address	1502 W. Commerce Carlsbad, NM 88220	Telephone No. (O)	575-628-4100
Facility Name	DWU Federal # 1	Facility Type	Oil Well with Battery
Surface Owner	BLM	Mineral Owner	
		Lease No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South line	Feet from the	East/West Line	County
J	34	19S	28E					Eddy

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

NATURE OF RELEASE

Type of Release	Prod. Water / Crude Oil	Volume of Release	301 bbls	Volume Recovered	65 bbls
Source of Release	Nipple from the bottom of the tank	Date and Hour of Occurrence		Date and Hour of Discovery	1-8-11 @ 12:00 pm
Was immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher-NMOCD		
By Whom?	Kelton Beaird-Oxy	Date and Hour	See above		
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. \*

Nipple coming off of the Tank battery formed a leak. The well was shut in, tank taken out of service and emptied. A vac-truck was called to pick up the remaining fluid left on the ground

Describe Area Affected and Cleanup Action Taken. \*

Area affected was inside the dikes around the tanks and approx. 60 ft. into the pasture. The affected area will be delineated, and a clean-up plan will be submitted for approval.

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.

OIL CONSERVATION DIVISION

Signature:

Printed Name: Kelton Beaird

Approved by District Supervisor:

Title: HES Specialist

Approval Date:

Expiration Date:

E-mail Address: kelton\_beaird@oxy.com

Conditions of Approval:

Attached ☐

Date: 1-12-11

\* Attach Additional Sheets If Necessary

District I  
1625 N. French Dr., Hobbs, NM 88240  
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Form C-141  
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Submit 2 Copies to appropriate  
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with Rule 116 on back  
side of form

**Release Notification and Corrective Action**

**OPERATOR**

☐ Initial Report ☒ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Christopher Jones
Address	1502 W. Commerce Dr., Carlsbad, NM	Telephone No.	(575) 628-4121
Facility Name	DWU Federal #1	Facility Type	Oil Well with Battery

Surface Owner	BLM	Mineral Owner		Lease No.	
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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
J	34	19S	28E					Eddy County, NM

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

**NATURE OF RELEASE**

Type of Release	Oil and Produced water	Volume of Release	301 bbls	Volume Recovered	65 bbls
Source of Release	Nipple from the bottom of the tank	Date and Hour of Occurrence	Date and Hour of Discovery 1/08/2011 @ 12:00 pm		
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required		If YES, To Whom? Mike Bratcher- NMOCD		
By Whom?	Kelton Beard	Date and Hour	see above		
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.\*

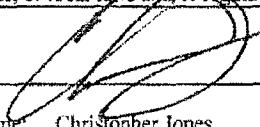
Describe Cause of Problem and Remedial Action Taken.\*

Nipple coming off of the tank battery formed a leak. The well was shut in, tank taken out of service, and emptied. A vacuum truck was called to pick up the remaining fluid left on the ground.

Describe Area Affected and Cleanup Action Taken.\*

The area affected was inside the dikes around the tanks and approximately 60 feet into the pasture. Remediation was completed in accordance with approved plans from both the NMOCD and the BLM.

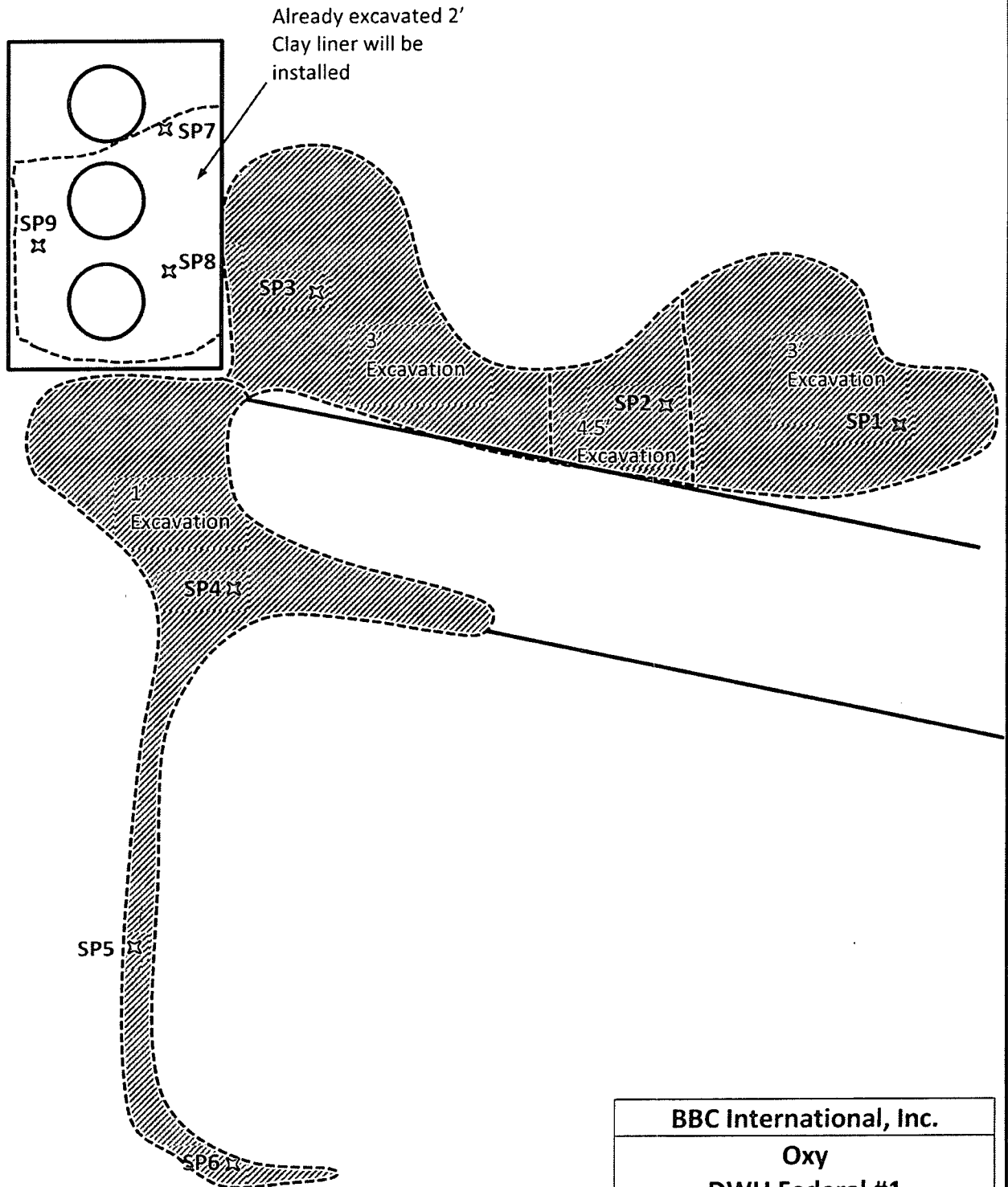
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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: Christopher Jones		Approved by District Supervisor:	
Title: HES Specialist		Approval Date:	Expiration Date:
E-mail Address: Christopher.Jones@oxy.com		Conditions of Approval:	Attached <input type="checkbox"/>
Date: 3-4-13 Phone: (575) 628-4121			

\* Attach Additional Sheets If Necessary



**Oxy  
DWU Federal #1**



**BBC International, Inc.**

**Oxy  
DWU Federal #1**

Date: 06/14/12

DRWG by: K. Purvis

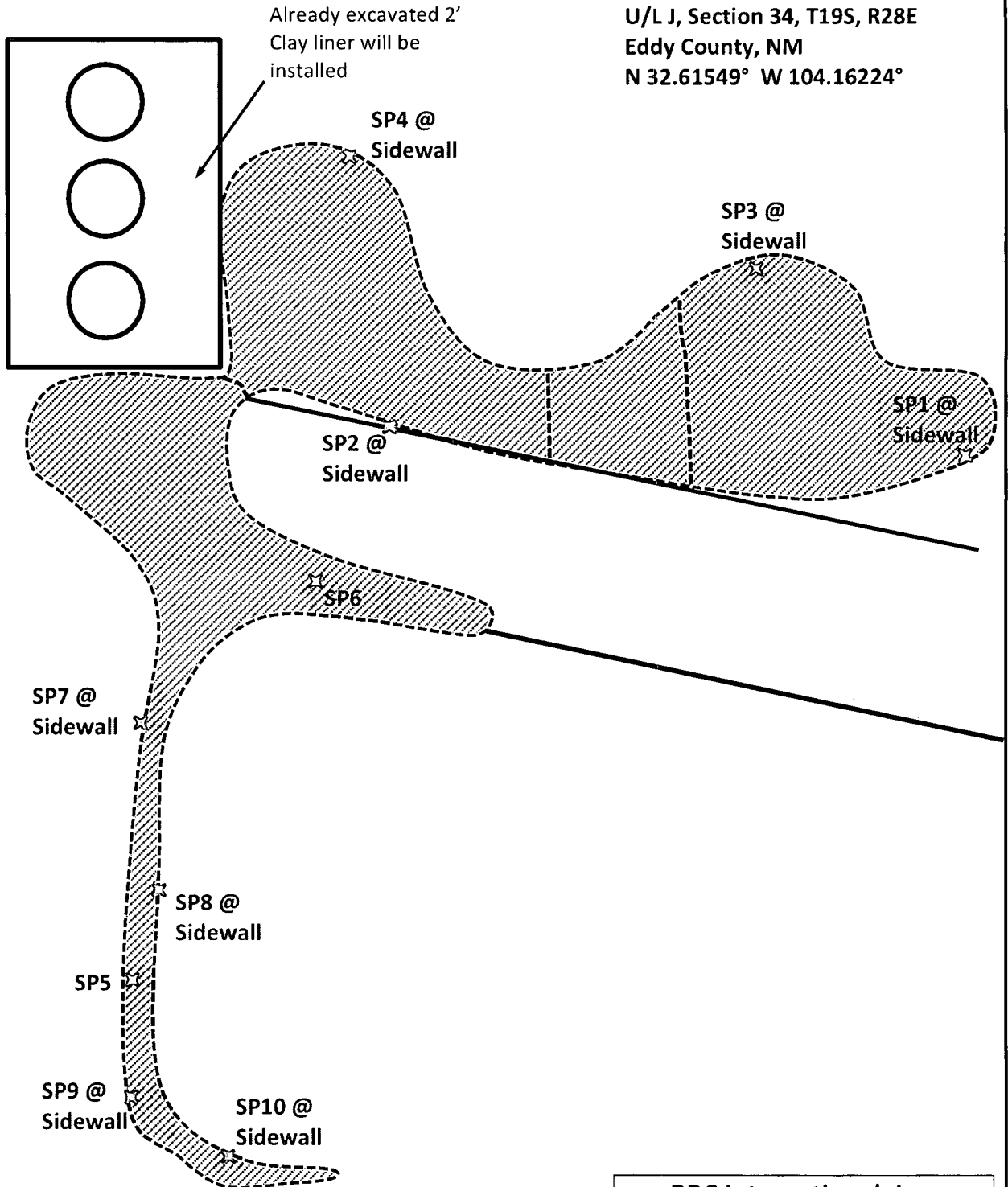
NOT TO SCALE

File: Oxy 2012



**Oxy  
DWU Federal #1**

U/L J, Section 34, T19S, R28E  
Eddy County, NM  
N 32.61549° W 104.16224°



✱ Confirmation samples  
(2<sup>nd</sup> confirmation)

**BBC International, Inc.**

**Oxy  
DWU Federal #1**

Date: update 1/07/13

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2012



# Groundwater Plot

## Oxy DWU Federal #1

County  
Eddy

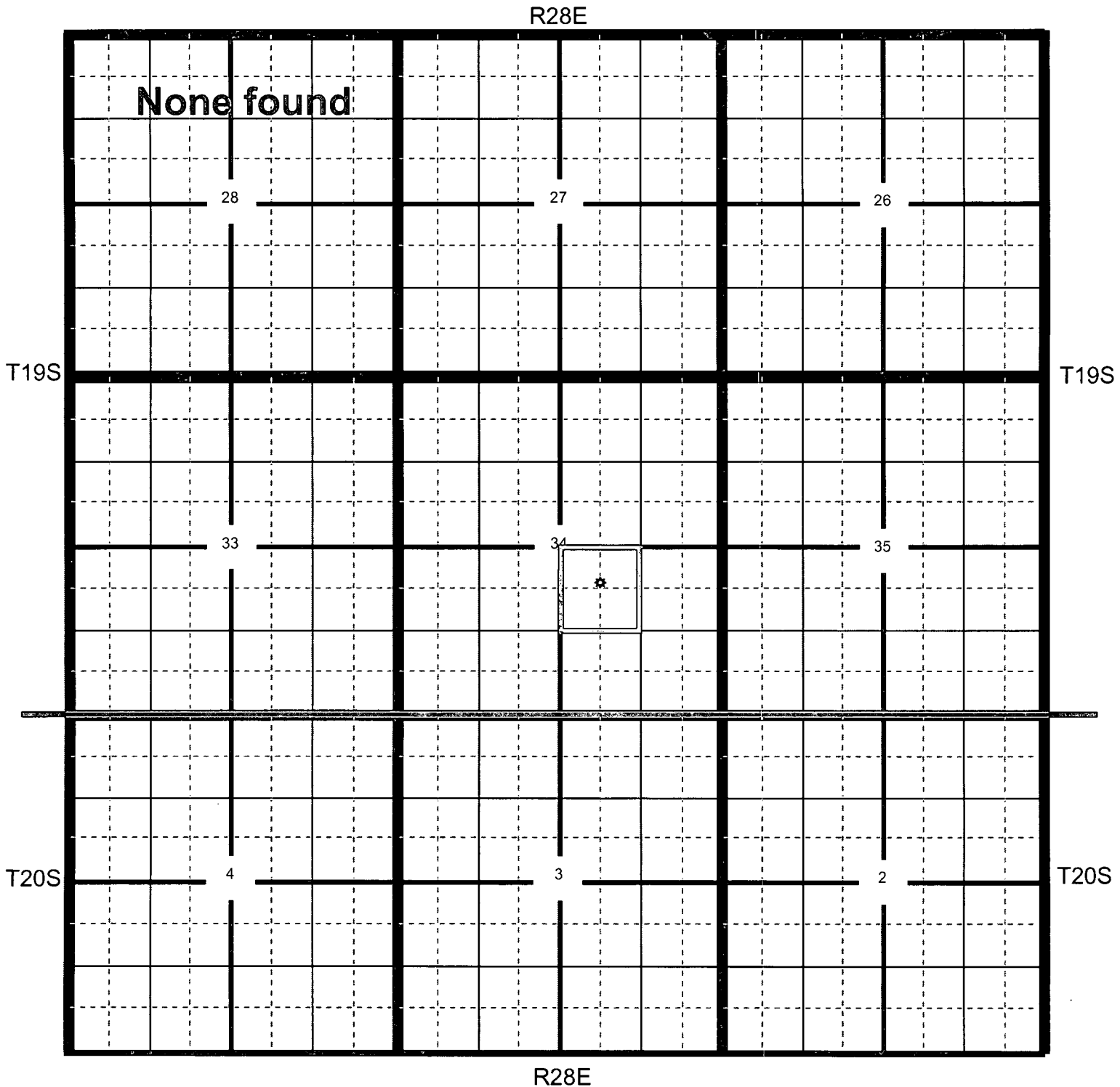
Unit Letter  
J

Section  
34

Township  
19S

Range  
28E

Trend Map 100'



★ Location

○ OCD

○ USGS

○ SEO

● All Databases

Section Quarters

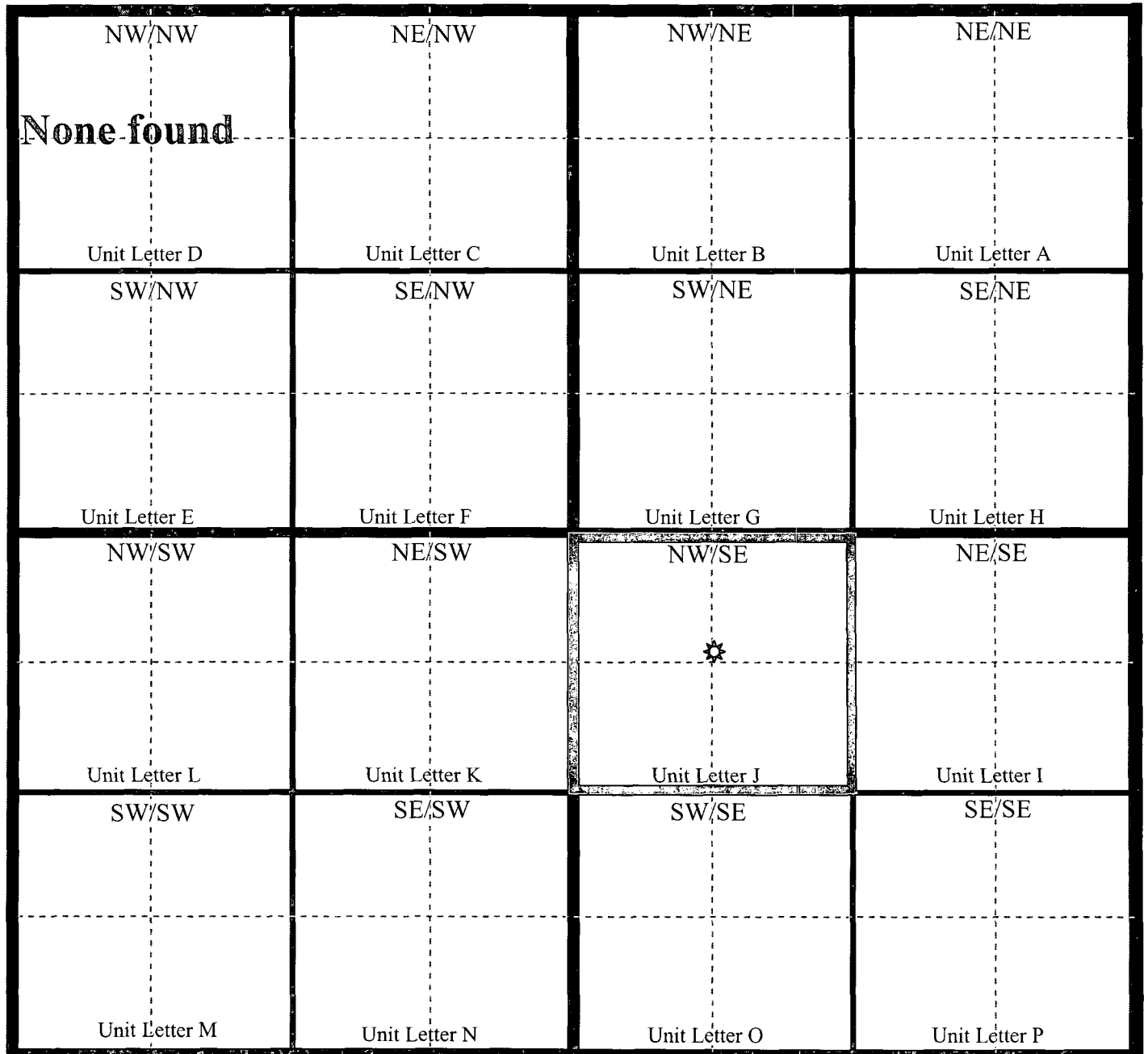
Oxy DWU Federal #1

County Eddy      Unit Letter J      Section 34      Township 19S      Range 28E

Trend Map 100'

1

2



3

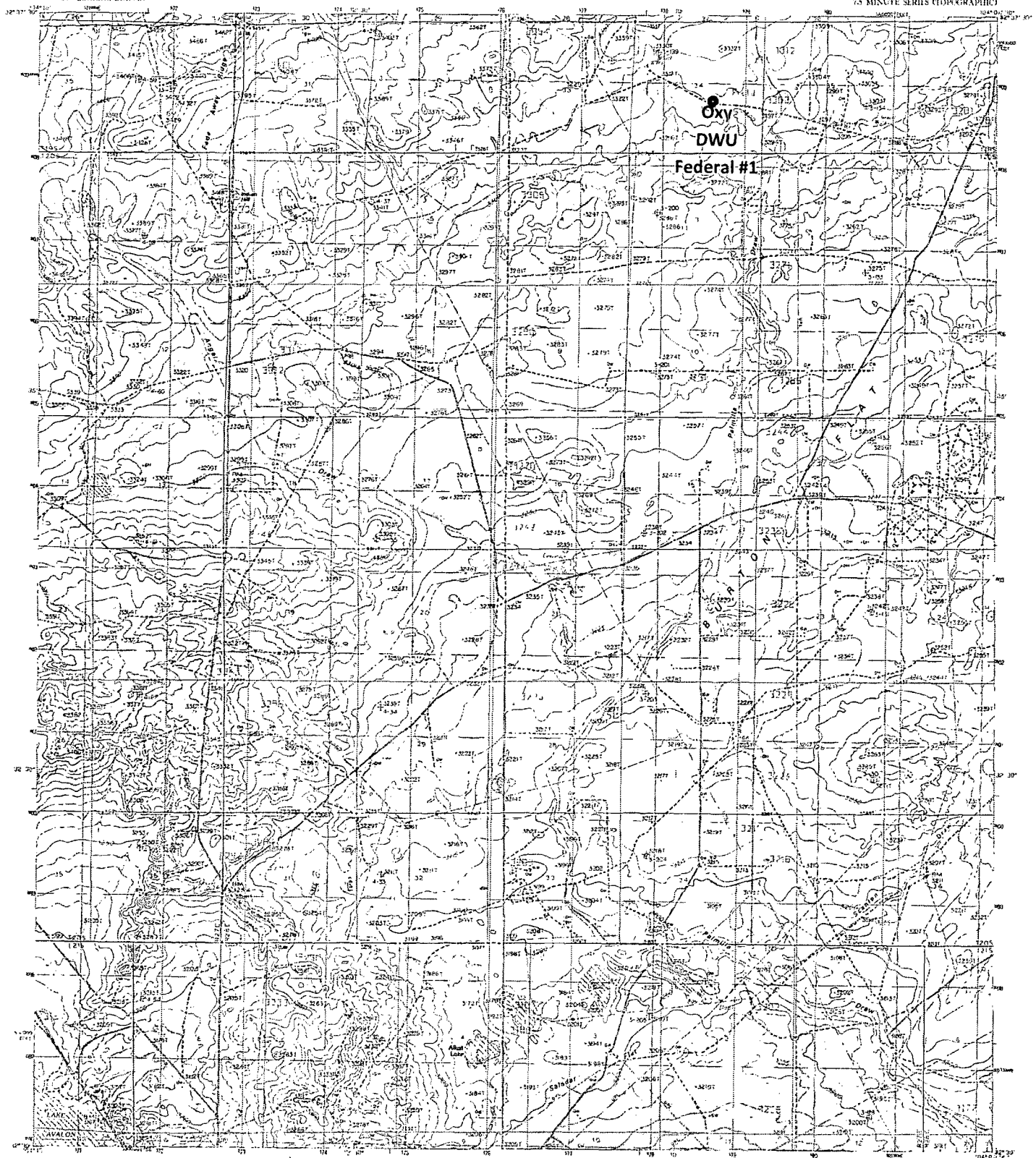
4

Oxy

# DWU Federal #1

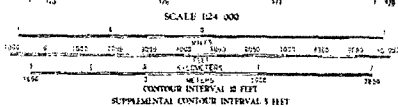
UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

ANGEL DRAW QUADRANGLE  
NEW MEXICO-HUDY CO.  
7.5 MINUTE SERIES (TOPOGRAPHIC)



PRODUCED BY THE UNITED STATES GEOLOGICAL SURVEY  
FOR THE DEPARTMENT OF THE INTERIOR  
THIS MAP IS A REPRODUCTION OF THE ORIGINAL  
MANUSCRIPT DRAWING. IT IS NOT A FINAL  
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FOR TITLE PURPOSES. IT IS NOT TO BE  
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PROVISIONAL MAP  
Produced from original  
manuscript drawing. Infor-  
mation shown as of date of  
field check.



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

ROAD LEGEND  
Improved Road  
Unimproved Road  
Trail  
Intersecting Road  
U.S. Route  
Scale Bars

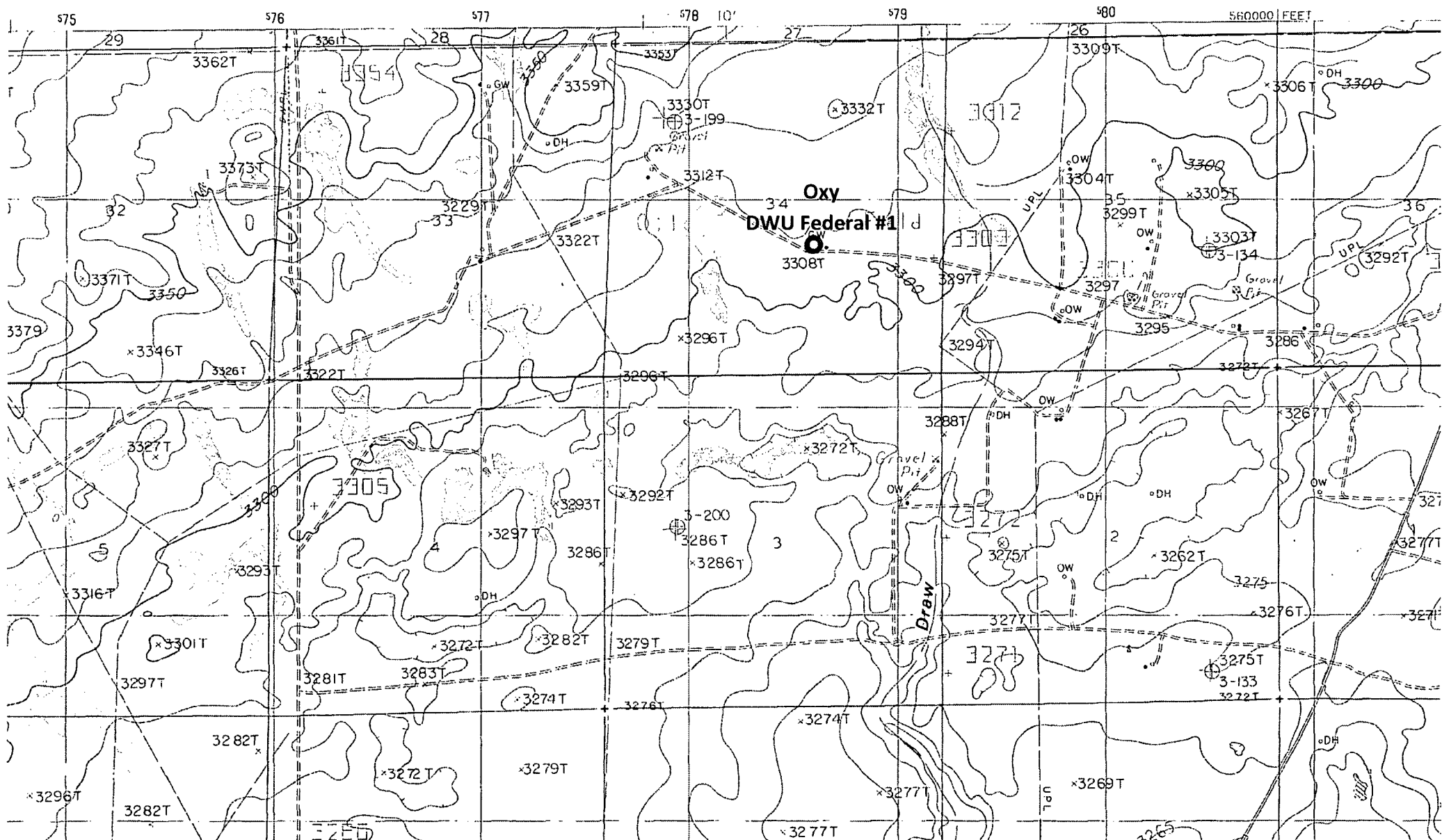
ANGEL DRAW, NEW MEXICO  
PROVISIONAL EDITION 1945  
1254-1278-2



# Oxy

## DWU Federal #1

ANGEL DRAW QUADR  
NEW MEXICO-EDDY  
7.5 MINUTE SERIES (TOPO)



**Laboratory Analytical Results Summary**  
**OXY, DWU #1 (Delineation)**

		Sample	SP 1 @ Surface	SP 1 @ 2'	SP 1 @ 4'
Analyte	Method	Date	6/9/12	6/9/12	6/9/12
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.23	<5.00	1.62
Toluene	BTEX 8021B		2.5	57.3	10.3
Ethylbenzene	BTEX 8021B		0.709	21.7	9.18
Total Xylenes	BTEX 8021B		4.02	101	52.3
Chloride	SM4500Cl-B		32	<16.0	16
GRO	TPH 8015M		85.2	2090	704
DRO	TPH 8015M		9840	4070	2090

		Sample	SP 2 @ Surface	SP 2 @ 2'	SP 2 @ 4'
Analyte	Method	Date	6/9/12	6/9/12	6/9/12
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.745	9.61	<5.00
Toluene	BTEX 8021B		13.4	85.6	44.4
Ethylbenzene	BTEX 8021B		5.36	22.5	19.3
Total Xylenes	BTEX 8021B		25.2	111	87.3
Chloride	SM4500Cl-B		16	<16.0	16
GRO	TPH 8015M		260	2970	1140
DRO	TPH 8015M		9450	4050	1460

		Sample	SP 3 @ Surface	SP 3 @ 2'	SP 3 @ 4'
Analyte	Method	Date	6/9/12	6/9/12	6/9/12
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.348	<5.00	0.385
Toluene	BTEX 8021B		5.15	37.7	6.57
Ethylbenzene	BTEX 8021B		1.93	17.8	7.53
Total Xylenes	BTEX 8021B		11.3	85.3	49
Chloride	SM4500Cl-B		32	16	32
GRO	TPH 8015M		150	2230	859
DRO	TPH 8015M		11100	4060	2750

		Sample	SP 4 @ Surface	SP 4 @ 1'
Analyte	Method	Date	6/9/12	6/9/12
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.123	<0.050
Toluene	BTEX 8021B		0.751	<0.050
Ethylbenzene	BTEX 8021B		0.193	<0.050
Total Xylenes	BTEX 8021B		0.889	<0.150
Chloride	SM4500Cl-B		80	32
GRO	TPH 8015M		<50.0	<10.0
DRO	TPH 8015M		3720	11.9

		Sample	SP 5 @ Surface	SP 5 @ 1'
Analyte	Method	Date	6/9/12	6/9/12
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.079	<0.050
Toluene	BTEX 8021B		1.5	<0.050
Ethylbenzene	BTEX 8021B		0.364	<0.050
Total Xylenes	BTEX 8021B		2.39	<0.150
Chloride	SM4500Cl-B		32	16
GRO	TPH 8015M		<50.0	<10.0
DRO	TPH 8015M		6440	33.4

		Sample	SP 6 @ Surface	SP 6 @ 1'
Analyte	Method	Date	6/9/12	6/9/12
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		0.584	0.258
Ethylbenzene	BTEX 8021B		0.211	0.593
Total Xylenes	BTEX 8021B		1.59	1.65
Chloride	SM4500Cl-B		16	<16.0
GRO	TPH 8015M		<50	109
DRO	TPH 8015M		7240	1430

**Laboratory Analytical Results Summary**  
**OXY, DWU #1 (Delineation)**

		Sample	SP 7 @ 2'	SP 7 @ 4'	SP 7 @ 6'
Analyte	Method	Date	6/8/12	6/8/12	6/8/12
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		1.13	0.126	<0.050
Ethylbenzene	BTEX 8021B		0.942	0.123	<0.050
Total Xylenes	BTEX 8021B		6.25	0.695	<0.150
Chloride	SM4500Cl-B		3440	6480	4480
GRO	TPH 8015M		89.3	23.2	<10.0
DRO	TPH 8015M		5470	2870	24.2

		Sample	SP 8 @ 10'
Analyte	Method	Date	6/8/12
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		0.054
Total Xylenes	BTEX 8021B		0.194
Chloride	SM4500Cl-B		2360
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		535

		Sample	SP 9 @ 10'
Analyte	Method	Date	6/8/12
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		0.191
Chloride	SM4500Cl-B		2440
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		272

**Laboratory Analytical Results Summary**  
**Oxy, DWU #1 (Confirmation)**

		Sample	SP1 @ 3' (BOTTOM)	SP1 @ SIDEWALL
Analyte	Method	Date	1/2/13	1/14/13
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.159	<0.050
Total Xylenes	BTEX 8021B		1.26	<0.150
Total BTEX	BTEX 8021B		1.42	<0.300
Chloride	SM4500Cl-B		80	<16.0
GRO	TPH 8015M		15.4	<10.0
DRO	TPH 8015M		378	<10.0

		Sample	SP2 @ 4.5' (BOTTOM)	SP2 @ SIDEWALL
Analyte	Method	Date	1/2/13	1/14/13
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.195	<0.050
Total Xylenes	BTEX 8021B		1.56	<0.150
Total BTEX	BTEX 8021B		1.76	<0.300
Chloride	SM4500Cl-B		48	<16.0
GRO	TPH 8015M		30	<10.0
DRO	TPH 8015M		738	<10.0

		Sample	SP3 @ 3' (BOTTOM)	SP3 @ SIDEWALL
Analyte	Method	Date	1/2/13	1/14/13
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.07	<0.050
Total Xylenes	BTEX 8021B		0.608	<0.150
Total BTEX	BTEX 8021B		0.678	<0.300
Chloride	SM4500Cl-B		64	<16.0
GRO	TPH 8015M		22.9	<10.0
DRO	TPH 8015M		704	<10.0

		Sample	SP4 @ 1' (BOTTOM)	SP4 @ SIDEWALL
Analyte	Method	Date	1/2/13	1/14/13
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.111	<0.050
Total Xylenes	BTEX 8021B		0.889	<0.150
Total BTEX	BTEX 8021B		1	<0.300
Chloride	SM4500Cl-B		64	<16.0
GRO	TPH 8015M		23	<10.0
DRO	TPH 8015M		982	<10.0

		Sample	SP5 @ 1' (BOTTOM)	SP5 @ 1'6"
Analyte	Method	Date	1/2/13	1/14/13
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.169	<0.050
Total Xylenes	BTEX 8021B		1.39	<0.150
Total BTEX	BTEX 8021B		1.56	<0.300
Chloride	SM4500Cl-B		96	<16.0
GRO	TPH 8015M		29.8	<10.0
DRO	TPH 8015M		886	<10.0

		Sample	SP6 @ SIDEWALL	SP6 @ 1'6"
Analyte	Method	Date	1/2/13	1/14/13
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500Cl-B		32	<16.0
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		864	<10.0

		Sample	SP7 @ 7'	SP7 @ SIDEWALL	SP7 @ SIDEWALL
Analyte	Method	Date	12/28/12	1/2/13	1/14/13
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		N/A	<0.050	<0.050
Toluene	BTEX 8021B		N/A	<0.050	<0.050
Ethylbenzene	BTEX 8021B		N/A	<0.050	<0.050
Total Xylenes	BTEX 8021B		N/A	<0.150	<0.150
Total BTEX	BTEX 8021B		N/A	<0.300	<0.300
Chloride	SM4500Cl-B		448	<16.0	<16.0
GRO	TPH 8015M		N/A	<10.0	<10.0
DRO	TPH 8015M		N/A	906	<10.0

		Sample	SP8 @ 11'	SP8 @ SIDEWALL	SP8 @ SIDEWALL
Analyte	Method	Date	12/28/12	1/2/13	1/14/13
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		N/A	<0.050	<0.050
Toluene	BTEX 8021B		N/A	<0.050	<0.050
Ethylbenzene	BTEX 8021B		N/A	<0.050	<0.050
Total Xylenes	BTEX 8021B		N/A	<0.150	<0.150
Total BTEX	BTEX 8021B		N/A	<0.300	<0.300
Chloride	SM4500Cl-B		544	<16.0	<16.0
GRO	TPH 8015M		N/A	<10.0	<10.0
DRO	TPH 8015M		N/A	935	<10.0

		Sample	SP9 @ 11'	SP9 @ SIDEWALL	SP9 @ SIDEWALL
Analyte	Method	Date	12/28/12	1/2/13	1/14/13
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		N/A	<0.050	<0.050
Toluene	BTEX 8021B		N/A	<0.050	<0.050
Ethylbenzene	BTEX 8021B		N/A	<0.050	<0.050
Total Xylenes	BTEX 8021B		N/A	<0.150	<0.150
Total BTEX	BTEX 8021B		N/A	<0.300	<0.300
Chloride	SM4500Cl-B		384	<16.0	<16.0
GRO	TPH 8015M		N/A	<10.0	<10.0
DRO	TPH 8015M		N/A	880	<10.0

		Sample	SP10 @ SIDEWALL	SP10 @ SIDEWALL
Analyte	Method	Date	1/2/13	1/14/13
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.117	<0.050
Total Xylenes	BTEX 8021B		0.834	<0.150
Total BTEX	BTEX 8021B		0.951	<0.300
Chloride	SM4500Cl-B		<16.0	<16.0
GRO	TPH 8015M		21.1	<10.0
DRO	TPH 8015M		896	<10.0

		Sample	SP11 @ SIDEWALL
Analyte	Method	Date	1/2/13
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		0.09
Total Xylenes	BTEX 8021B		0.644
Total BTEX	BTEX 8021B		0.734
Chloride	SM4500Cl-B		32
GRO	TPH 8015M		12.9
DRO	TPH 8015M		780

		Sample	SP12 @ SIDEWALL
Analyte	Method	Date	1/2/13
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		0.072
Total Xylenes	BTEX 8021B		0.624
Total BTEX	BTEX 8021B		0.696
Chloride	SM4500Cl-B		64
GRO	TPH 8015M		30.8
DRO	TPH 8015M		1340

		Sample	SP13 @ SIDEWALL
Analyte	Method	Date	1/2/13
			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		978

June 18, 2012

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: DWU FED #1

Enclosed are the results of analyses for samples received by the laboratory on 06/11/12 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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).

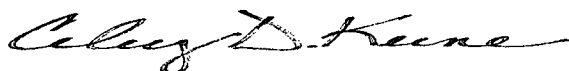
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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: (505) 397-0397

Received: 06/11/2012  
Reported: 06/18/2012  
Project Name: DWU FED #1  
Project Number: NONE GIVEN  
Project Location: CARLSBAD, NEW MEXICO

Sampling Date: 06/08/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ SURFACE (H201308-01)**

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.230</b>	0.050	06/14/2012	ND	1.91	95.5	2.00	2.76	
<b>Toluene*</b>	<b>2.50</b>	0.050	06/14/2012	ND	1.93	96.3	2.00	3.98	
<b>Ethylbenzene*</b>	<b>0.709</b>	0.050	06/14/2012	ND	1.97	98.4	2.00	4.72	
<b>Total Xylenes*</b>	<b>4.02</b>	0.150	06/14/2012	ND	5.99	99.8	6.00	6.57	

Surrogate: 4-Bromofluorobenzene (PIE) 116 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	06/13/2012	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>85.2</b>	50.0	06/12/2012	ND	176	88.0	200	4.28		
<b>DRO &gt;C10-C28</b>	<b>9840</b>	50.0	06/12/2012	ND	172	86.2	200	7.49		

Surrogate: 1-Chlorooctane 99.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 616 % 63.6-154

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: (505) 397-0397

 Received: 06/11/2012  
 Reported: 06/18/2012  
 Project Name: DWU FED #1  
 Project Number: NONE GIVEN  
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 06/08/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 2' (H201308-02)**

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<5.00	5.00	06/14/2012	ND	1.91	95.5	2.00	2.76	
Toluene*	57.3	5.00	06/14/2012	ND	1.93	96.3	2.00	3.98	
Ethylbenzene*	21.7	5.00	06/14/2012	ND	1.97	98.4	2.00	4.72	
Total Xylenes*	101	15.0	06/14/2012	ND	5.99	99.8	6.00	6.57	

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 89.4-126

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	06/13/2012	ND	416	104	400	0.00		
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	2090	50.0	06/12/2012	ND	176	88.0	200	4.28		
DRO >C10-C28	4070	50.0	06/12/2012	ND	172	86.2	200	7.49		

Surrogate: 1-Chlorooctane 181 % 65.2-140

Surrogate: 1-Chlorooctadecane 178 % 63.6-154

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: (505) 397-0397

Received: 06/11/2012  
Reported: 06/18/2012  
Project Name: DWU FED #1  
Project Number: NONE GIVEN  
Project Location: CARLSBAD, NEW MEXICO

Sampling Date: 06/08/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 4' (H201308-03)**

BTX 8021B		mg/kg		Analyzed By: ZZZ				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>1.62</b>	1.00	06/14/2012	ND	1.91	95.5	2.00	2.76	
<b>Toluene*</b>	<b>10.3</b>	1.00	06/14/2012	ND	1.93	96.3	2.00	3.98	
<b>Ethylbenzene*</b>	<b>9.18</b>	1.00	06/14/2012	ND	1.97	98.4	2.00	4.72	
<b>Total Xylenes*</b>	<b>52.3</b>	3.00	06/14/2012	ND	5.99	99.8	6.00	6.57	

Surrogate: 4-Bromofluorobenzene (PIL) 136 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	06/13/2012	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>704</b>	50.0	06/12/2012	ND	176	88.0	200	4.28	
<b>DRO &gt;C10-C28</b>	<b>2090</b>	50.0	06/12/2012	ND	172	86.2	200	7.49	

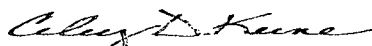
Surrogate: 1-Chlorooctane 132 % 65.2-140

Surrogate: 1-Chlorooctadecane 146 % 63.6-154

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: (505) 397-0397

 Received: 06/11/2012  
 Reported: 06/18/2012  
 Project Name: DWU FED #1  
 Project Number: NONE GIVEN  
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 06/08/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ SURFACE (H201308-04)**

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.745</b>	0.050	06/14/2012	ND	1.91	95.5	2.00	2.76	
<b>Toluene*</b>	<b>13.4</b>	0.050	06/14/2012	ND	1.93	96.3	2.00	3.98	
<b>Ethylbenzene*</b>	<b>5.36</b>	0.050	06/14/2012	ND	1.97	98.4	2.00	4.72	
<b>Total Xylenes*</b>	<b>25.2</b>	0.150	06/14/2012	ND	5.99	99.8	6.00	6.57	

Surrogate: 4-Bromofluorobenzene (PIE) 123 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>16.0</b>	16.0	06/13/2012	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>260</b>	50.0	06/12/2012	ND	176	88.0	200	4.28		
<b>DRO &gt;C10-C28</b>	<b>9450</b>	50.0	06/12/2012	ND	172	86.2	200	7.49		


Surrogate: 1-Chlorooctane 95.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 590 % 63.6-154

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: (505) 397-0397

 Received: 06/11/2012  
 Reported: 06/18/2012  
 Project Name: DWU FED #1  
 Project Number: NONE GIVEN  
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 06/08/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 2' (H201308-05)**

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	9.61	5.00	06/14/2012	ND	1.91	95.5	2.00	2.76	
Toluene*	85.6	5.00	06/14/2012	ND	1.93	96.3	2.00	3.98	
Ethylbenzene*	22.5	5.00	06/14/2012	ND	1.97	98.4	2.00	4.72	
Total Xylenes*	111	15.0	06/14/2012	ND	5.99	99.8	6.00	6.57	

Surrogate: 4-Bromofluorobenzene (PIC) 114 % 89.4-126

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	06/13/2012	ND	416	104	400	0.00		

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	2970	50.0	06/12/2012	ND	176	88.0	200	4.28	
DRO >C10-C28	4050	50.0	06/12/2012	ND	172	86.2	200	7.49	

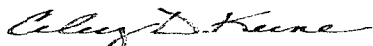
Surrogate: 1-Chlorooctane 182 % 65.2-140

Surrogate: 1-Chlorooctadecane 172 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Caley D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

BBC International, Inc.  
Cliff Brunson  
P.O. Box 805  
Hobbs NM, 88241  
Fax To: (505) 397-0397

Received: 06/11/2012  
Reported: 06/18/2012  
Project Name: DWU FED #1  
Project Number: NONE GIVEN  
Project Location: CARLSBAD, NEW MEXICO

Sampling Date: 06/08/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 4' (H201308-06)**

BTEX 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<5.00	5.00	06/14/2012	ND	1.91	95.5	2.00	2.76		
Toluene*	44.4	5.00	06/14/2012	ND	1.93	96.3	2.00	3.98		
Ethylbenzene*	19.3	5.00	06/14/2012	ND	1.97	98.4	2.00	4.72		
Total Xylenes*	87.3	15.0	06/14/2012	ND	5.99	99.8	6.00	6.57		

Surrogate: 4-Bromofluorobenzene (PIC) 105 % 89.4-126

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	06/13/2012	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1140	10.0	06/12/2012	ND	176	88.0	200	4.28	
DRO >C10-C28	1460	10.0	06/12/2012	ND	172	86.2	200	7.49	

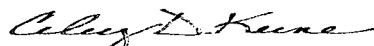
Surrogate: 1-Chlorooctane 131 % 65.2-140

Surrogate: 1-Chlorooctadecane 133 % 63.6-154

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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: (505) 397-0397

 Received: 06/11/2012  
 Reported: 06/18/2012  
 Project Name: DWU FED #1  
 Project Number: NONE GIVEN  
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 06/08/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ SURFACE (H201308-07)**

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.348</b>	0.050	06/14/2012	ND	1.91	95.5	2.00	2.76	
<b>Toluene*</b>	<b>5.15</b>	0.050	06/14/2012	ND	1.93	96.3	2.00	3.98	
<b>Ethylbenzene*</b>	<b>1.93</b>	0.050	06/14/2012	ND	1.97	98.4	2.00	4.72	
<b>Total Xylenes*</b>	<b>11.3</b>	0.150	06/14/2012	ND	5.99	99.8	6.00	6.57	

Surrogate: 4-Bromofluorobenzene (PIL) 125 % 89.4-126

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	06/13/2012	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
				S-06					

Surrogate: 1-Chlorooctane 108 % 65.2-140

Surrogate: 1-Chloroadecane 277 % 63.6-154

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: (505) 397-0397

 Received: 06/11/2012  
 Reported: 06/18/2012  
 Project Name: DWU FED #1  
 Project Number: NONE GIVEN  
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 06/08/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 2' (H201308-08)**

BTEX 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<5.00	5.00	06/14/2012	ND	1.91	95.5	2.00	2.76		
Toluene*	37.7	5.00	06/14/2012	ND	1.93	96.3	2.00	3.98		
Ethylbenzene*	17.8	5.00	06/14/2012	ND	1.97	98.4	2.00	4.72		
Total Xylenes*	85.3	15.0	06/14/2012	ND	5.99	99.8	6.00	6.57		

Surrogate: 4-Bromofluorobenzene (PIC) 121 % 89.4-126

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	06/13/2012	ND	416	104	400	0.00		

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	2230	50.0	06/13/2012	ND	181	90.7	200	0.771	
DRO >C10-C28	4060	50.0	06/13/2012	ND	181	90.5	200	1.21	

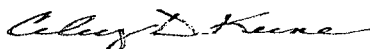
Surrogate: 1-Chlorooctane 178 % 65.2-140

Surrogate: 1-Chlorooctadecane 183 % 63.6-154

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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: (505) 397-0397

Received: 06/11/2012  
Reported: 06/18/2012  
Project Name: DWU FED #1  
Project Number: NONE GIVEN  
Project Location: CARLSBAD, NEW MEXICO

Sampling Date: 06/08/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 4' (H201308-09)**

BTEX 8021B		mg/kg		Analyzed By: ZZZ					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>0.385</b>	0.050	06/15/2012	ND	1.86	92.9	2.00	0.0196		
<b>Toluene*</b>	<b>6.57</b>	0.050	06/15/2012	ND	1.86	93.1	2.00	0.871		
<b>Ethylbenzene*</b>	<b>7.53</b>	0.050	06/15/2012	ND	1.88	94.1	2.00	0.591		
<b>Total Xylenes*</b>	<b>49.0</b>	0.150	06/15/2012	ND	5.77	96.1	6.00	2.56		

Surrogate: 4-Bromofluorobenzene (PIL) 192 % 89.4-126

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	06/13/2012	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	S-06	
GRO C6-C10	859	50.0	06/13/2012	ND	181	90.7	200	0.771		
DRO >C10-C28	2750	50.0	06/13/2012	ND	181	90.5	200	1.21		

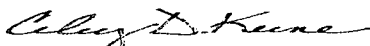
Surrogate: 1-Chlorooctane 148 % 65.2-140

Surrogate: 1-Chlorooctadecane 167 % 63.6-154

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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: (505) 397-0397

Received: 06/11/2012  
Reported: 06/18/2012  
Project Name: DWU FED #1  
Project Number: NONE GIVEN  
Project Location: CARLSBAD, NEW MEXICO

Sampling Date: 06/08/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ SURFACE (H201308-10)**

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.123</b>	0.050	06/15/2012	ND	1.86	92.9	2.00	0.0196	
<b>Toluene*</b>	<b>0.751</b>	0.050	06/15/2012	ND	1.86	93.1	2.00	0.871	
<b>Ethylbenzene*</b>	<b>0.193</b>	0.050	06/15/2012	ND	1.88	94.1	2.00	0.591	
<b>Total Xylenes*</b>	<b>0.889</b>	0.150	06/15/2012	ND	5.77	96.1	6.00	2.56	

Surrogate: 4-Bromofluorobenzene (PIL) 107 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	06/13/2012	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/13/2012	ND	181	90.7	200	0.771	
<b>DRO &gt;C10-C28</b>	<b>3720</b>	50.0	06/13/2012	ND	181	90.5	200	1.21	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/13/2012	ND	181	90.7	200	0.771	
<b>DRO &gt;C10-C28</b>	<b>3720</b>	50.0	06/13/2012	ND	181	90.5	200	1.21	

Surrogate: 1-Chlorooctane 96.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 229 % 63.6-154

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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: (505) 397-0397

 Received: 06/11/2012  
 Reported: 06/18/2012  
 Project Name: DWU FED #1  
 Project Number: NONE GIVEN  
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 06/08/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 1' (H201308-11)**

BTEX 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/15/2012	ND	1.86	92.9	2.00	0.0196		
Toluene*	<0.050	0.050	06/15/2012	ND	1.86	93.1	2.00	0.871		
Ethylbenzene*	<0.050	0.050	06/15/2012	ND	1.88	94.1	2.00	0.591		
Total Xylenes*	<0.150	0.150	06/15/2012	ND	5.77	96.1	6.00	2.56		

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 89.4-126

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	06/13/2012	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/13/2012	ND	181	90.7	200	0.771	
DRO >C10-C28	11.9	10.0	06/13/2012	ND	181	90.5	200	1.21	

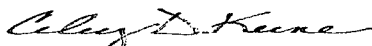
Surrogate: 1-Chlorooctane 89.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

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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: (505) 397-0397

Received: 06/11/2012  
Reported: 06/18/2012  
Project Name: DWU FED #1  
Project Number: NONE GIVEN  
Project Location: CARLSBAD, NEW MEXICO

Sampling Date: 06/08/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 5 @ SURFACE (H201308-12)**

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.079</b>	0.050	06/15/2012	ND	1.86	92.9	2.00	0.0196	
<b>Toluene*</b>	<b>1.50</b>	0.050	06/15/2012	ND	1.86	93.1	2.00	0.871	
<b>Ethylbenzene*</b>	<b>0.364</b>	0.050	06/15/2012	ND	1.88	94.1	2.00	0.591	
<b>Total Xylenes*</b>	<b>2.39</b>	0.150	06/15/2012	ND	5.77	96.1	6.00	2.56	

Surrogate: 4-Bromofluorobenzene (PIE) 112 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	06/13/2012	ND	416	104	400	0.00	

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	<50.0	50.0	06/13/2012	ND	181	90.7	200	0.771		
<b>DRO &gt;C10-C28</b>	<b>6440</b>	50.0	06/13/2012	ND	181	90.5	200	1.21		

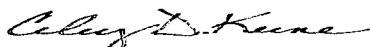
Surrogate: 1-Chlorooctane 99.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 266 % 63.6-154

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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: (505) 397-0397

 Received: 06/11/2012  
 Reported: 06/18/2012  
 Project Name: DWU FED #1  
 Project Number: NONE GIVEN  
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 06/08/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 5 @ 1' (H201308-13)**

BTEX 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/15/2012	ND	1.86	92.9	2.00	0.0196		
Toluene*	<0.050	0.050	06/15/2012	ND	1.86	93.1	2.00	0.871		
Ethylbenzene*	<0.050	0.050	06/15/2012	ND	1.88	94.1	2.00	0.591		
Total Xylenes*	<0.150	0.150	06/15/2012	ND	5.77	96.1	6.00	2.56		

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 89.4-126

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	06/13/2012	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/13/2012	ND	181	90.7	200	0.771	
DRO >C10-C28	33.4	10.0	06/13/2012	ND	181	90.5	200	1.21	

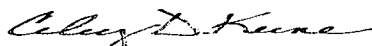
Surrogate: 1-Chlorooctane 97.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 117 % 63.6-154

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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: (505) 397-0397

 Received: 06/11/2012  
 Reported: 06/18/2012  
 Project Name: DWU FED #1  
 Project Number: NONE GIVEN  
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 06/08/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 6 @ SURFACE (H201308-14)**

BTEx 8021B			mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/15/2012	ND	1.86	92.9	2.00	0.0196		
Toluene*	0.584	0.050	06/15/2012	ND	1.86	93.1	2.00	0.871		
Ethylbenzene*	0.211	0.050	06/15/2012	ND	1.88	94.1	2.00	0.591		
Total Xylenes*	1.59	0.150	06/15/2012	ND	5.77	96.1	6.00	2.56		

Surrogate: 4-Bromofluorobenzene (PIE) 112 % 89.4-126

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	06/13/2012	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
									S-06

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	<50.0	50.0	06/13/2012	ND	181	90.7	200	0.771	
DRO >C10-C28	7240	50.0	06/13/2012	ND	181	90.5	200	1.21	

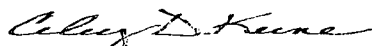
Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 222 % 63.6-154

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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: (505) 397-0397

 Received: 06/11/2012  
 Reported: 06/18/2012  
 Project Name: DWU FED #1  
 Project Number: NONE GIVEN  
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 06/08/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 6 @ 1' (H201308-15)**

BTEX 8021B		mg/kg	Analyzed By: ZZZ					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2012	ND	1.86	92.9	2.00	0.0196	
Toluene*	<b>0.258</b>	0.050	06/15/2012	ND	1.86	93.1	2.00	0.871	
Ethylbenzene*	<b>0.593</b>	0.050	06/15/2012	ND	1.88	94.1	2.00	0.591	
Total Xylenes*	<b>1.65</b>	0.150	06/15/2012	ND	5.77	96.1	6.00	2.56	

Surrogate: 4-Bromofluorobenzene (PIL) 165 % 89.4-126

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	06/13/2012	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<b>109</b>	10.0	06/13/2012	ND	181	90.7	200	0.771	
DRO >C10-C28	<b>1430</b>	10.0	06/13/2012	ND	181	90.5	200	1.21	

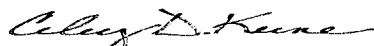
Surrogate: 1-Chlorooctane 116 % 65.2-140

Surrogate: 1-Chlorooctadecane 142 % 63.6-154

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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: (505) 397-0397

Received: 06/11/2012  
Reported: 06/18/2012  
Project Name: DWU FED #1  
Project Number: NONE GIVEN  
Project Location: CARLSBAD, NEW MEXICO

Sampling Date: 06/08/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 7 @ 2' (H201308-16)**

BTEX 8021B		mg/kg	Analyzed By: ZZZ					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2012	ND	1.86	92.9	2.00	0.0196	
Toluene*	1.13	0.050	06/15/2012	ND	1.86	93.1	2.00	0.871	
Ethylbenzene*	0.942	0.050	06/15/2012	ND	1.88	94.1	2.00	0.591	
Total Xylenes*	6.25	0.150	06/15/2012	ND	5.77	96.1	6.00	2.56	

Surrogate: 4-Bromofluorobenzene (PIL) 139 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3440	16.0	06/13/2012	ND	416	104	400	0.00	
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	89.3	10.0	06/13/2012	ND	181	90.7	200	0.771	
DRO >C10-C28	5470	10.0	06/13/2012	ND	181	90.5	200	1.21	

Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 257 % 63.6-154

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: (505) 397-0397

Received: 06/11/2012  
Reported: 06/18/2012  
Project Name: DWU FED #1  
Project Number: NONE GIVEN  
Project Location: CARLSBAD, NEW MEXICO

Sampling Date: 06/08/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 7 @ 4' (H201308-17)**

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2012	ND	1.86	92.9	2.00	0.0196	
Toluene*	<b>0.126</b>	0.050	06/15/2012	ND	1.86	93.1	2.00	0.871	
Ethylbenzene*	<b>0.123</b>	0.050	06/15/2012	ND	1.88	94.1	2.00	0.591	
Total Xylenes*	<b>0.695</b>	0.150	06/15/2012	ND	5.77	96.1	6.00	2.56	

Surrogate: 4-Bromofluorobenzene (PIL) 119 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>6480</b>	16.0	06/13/2012	ND	416	104	400	0.00	

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	<b>23.2</b>	10.0	06/13/2012	ND	181	90.7	200	0.771		
DRO >C10-C28	<b>2870</b>	10.0	06/13/2012	ND	181	90.5	200	1.21		

Surrogate: 1-Chlorooctane 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 172 % 63.6-154

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\*=Accredited Analyte

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Celest D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 BBC International, Inc.  
 Cliff Brunson  
 P.O. Box 805  
 Hobbs NM, 88241  
 Fax To: (505) 397-0397

 Received: 06/11/2012  
 Reported: 06/18/2012  
 Project Name: DWU FED #1  
 Project Number: NONE GIVEN  
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 06/08/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 7 @ 6' (H201308-18)**

BTEX 8021B		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/15/2012	ND	1.86	92.9	2.00	0.0196		
Toluene*	<0.050	0.050	06/15/2012	ND	1.86	93.1	2.00	0.871		
Ethylbenzene*	<0.050	0.050	06/15/2012	ND	1.88	94.1	2.00	0.591		
Total Xylenes*	<0.150	0.150	06/15/2012	ND	5.77	96.1	6.00	2.56		

Surrogate: 4-Bromofluorobenzene (PIC) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	06/13/2012	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/13/2012	ND	181	90.7	200	0.771	
DRO >C10-C28	24.2	10.0	06/13/2012	ND	181	90.5	200	1.21	

Surrogate: 1-Chlorooctane 94.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

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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: (505) 397-0397

 Received: 06/11/2012  
 Reported: 06/18/2012  
 Project Name: DWU FED #1  
 Project Number: NONE GIVEN  
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 06/08/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 8 @ 10' (H201308-19)**

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2012	ND	1.86	92.9	2.00	0.0196	
Toluene*	<0.050	0.050	06/15/2012	ND	1.86	93.1	2.00	0.871	
Ethylbenzene*	<b>0.054</b>	0.050	06/15/2012	ND	1.88	94.1	2.00	0.591	
<b>Total Xylenes*</b>	<b>0.194</b>	0.150	06/15/2012	ND	5.77	96.1	6.00	2.56	

Surrogate: 4-Bromofluorobenzene (PIC) 110 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2360</b>	16.0	06/13/2012	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/13/2012	ND	181	90.7	200	0.771	
<b>DRO &gt;C10-C28</b>	<b>535</b>	10.0	06/13/2012	ND	181	90.5	200	1.21	

Surrogate: 1-Chlorooctane 95.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 128 % 63.6-154

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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: (505) 397-0397

 Received: 06/11/2012  
 Reported: 06/18/2012  
 Project Name: DWU FED #1  
 Project Number: NONE GIVEN  
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 06/08/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 9 @ 10' (H201308-20)**

BTEX 8021B		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/15/2012	ND	1.86	92.9	2.00	0.0196	
Toluene*	<0.050	0.050	06/15/2012	ND	1.86	93.1	2.00	0.871	
Ethylbenzene*	<0.050	0.050	06/15/2012	ND	1.88	94.1	2.00	0.591	
<b>Total Xylenes*</b>	<b>0.191</b>	0.150	06/15/2012	ND	5.77	96.1	6.00	2.56	

Surrogate: 4-Bromofluorobenzene (PIE) 111 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>2440</b>	16.0	06/13/2012	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/13/2012	ND	181	90.7	200	0.771	
<b>DRO &gt;C10-C28</b>	<b>272</b>	10.0	06/13/2012	ND	181	90.5	200	1.21	

Surrogate: 1-Chlorooctane 97.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 118 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

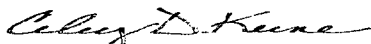
S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or 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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Celey D. Keene, Lab Director/Quality Manager







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

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January 10, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: DWU FED #1

Enclosed are the results of analyses for samples received by the laboratory on 01/03/13 8:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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: 01/03/2013  
Reported: 01/10/2013  
Project Name: DWU FED #1  
Project Number: NONE GIVEN  
Project Location: CARLSBAD, NEW MEXICO

Sampling Date: 01/02/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 1 @ 3' (H300011-01)**

BTEX 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2013	ND	1.67	83.6	2.00	27.0	
Toluene*	<0.050	0.050	01/08/2013	ND	1.83	91.4	2.00	26.7	
Ethylbenzene*	<b>0.159</b>	0.050	01/08/2013	ND	1.76	87.9	2.00	26.4	
<b>Total Xylenes*</b>	<b>1.26</b>	0.150	01/08/2013	ND	5.36	89.3	6.00	25.9	
<b>Total BTEX</b>	<b>1.42</b>	0.300	01/08/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 145 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	01/03/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>15.4</b>	10.0	01/10/2013	ND	211	105	200	0.827	
<b>DRO &gt;C10-C28</b>	<b>378</b>	10.0	01/10/2013	ND	234	117	200	3.68	

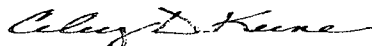
Surrogate: 1-Chlorooctane 72.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 76.9 % 63.6-154

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: 01/03/2013  
 Reported: 01/10/2013  
 Project Name: DWU FED #1  
 Project Number: NONE GIVEN  
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 01/02/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 @ 4.5' (H300011-02)**

BTEX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2013	ND	1.67	83.6	2.00	27.0	
Toluene*	<0.050	0.050	01/08/2013	ND	1.83	91.4	2.00	26.7	
Ethylbenzene*	<b>0.195</b>	0.050	01/08/2013	ND	1.76	87.9	2.00	26.4	
<b>Total Xylenes*</b>	<b>1.56</b>	0.150	01/08/2013	ND	5.36	89.3	6.00	25.9	
<b>Total BTEX</b>	<b>1.76</b>	0.300	01/08/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 149 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	01/03/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>30.0</b>	10.0	01/10/2013	ND	211	105	200	0.827	
<b>DRO &gt;C10-C28</b>	<b>738</b>	10.0	01/10/2013	ND	234	117	200	3.68	

Surrogate: 1-Chlorooctane 87.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.1 % 63.6-154

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: 01/03/2013  
 Reported: 01/10/2013  
 Project Name: DWU FED #1  
 Project Number: NONE GIVEN  
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 01/02/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 3' (H300011-03)**

BTEX 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2013	ND	1.67	83.6	2.00	27.0	
Toluene*	<0.050	0.050	01/08/2013	ND	1.83	91.4	2.00	26.7	
Ethylbenzene*	0.070	0.050	01/08/2013	ND	1.76	87.9	2.00	26.4	
Total Xylenes*	0.608	0.150	01/08/2013	ND	5.36	89.3	6.00	25.9	
Total BTEX	0.678	0.300	01/08/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/03/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	22.9	10.0	01/10/2013	ND	211	105	200	0.827	
DRO >C10-C28	704	10.0	01/10/2013	ND	234	117	200	3.68	

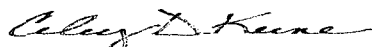
Surrogate: 1-Chlorooctane 90.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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: 01/03/2013  
 Reported: 01/10/2013  
 Project Name: DWU FED #1  
 Project Number: NONE GIVEN  
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 01/02/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 1' (H300011-04)**

BTX 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2013	ND	1.67	83.6	2.00	27.0	
Toluene*	<0.050	0.050	01/08/2013	ND	1.83	91.4	2.00	26.7	
Ethylbenzene*	<b>0.111</b>	0.050	01/08/2013	ND	1.76	87.9	2.00	26.4	
<b>Total Xylenes*</b>	<b>0.889</b>	0.150	01/08/2013	ND	5.36	89.3	6.00	25.9	
<b>Total BTX</b>	<b>1.00</b>	0.300	01/08/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 144 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	01/03/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>23.0</b>	10.0	01/10/2013	ND	211	105	200	0.827	
<b>DRO &gt;C10-C28</b>	<b>982</b>	10.0	01/10/2013	ND	234	117	200	3.68	

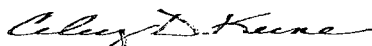
Surrogate: 1-Chlorooctane 90.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

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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:	01/03/2013	Sampling Date:	01/02/2013
Reported:	01/10/2013	Sampling Type:	Soil
Project Name:	DWU FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	CARLSBAD, NEW MEXICO		

**Sample ID: SP 5 @ 1' (H300011-05)**

BTEX 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2013	ND	1.67	83.6	2.00	27.0	
Toluene*	<0.050	0.050	01/08/2013	ND	1.83	91.4	2.00	26.7	
Ethylbenzene*	<b>0.169</b>	0.050	01/08/2013	ND	1.76	87.9	2.00	26.4	
Total Xylenes*	<b>1.39</b>	0.150	01/08/2013	ND	5.36	89.3	6.00	25.9	
Total BTEX	<b>1.56</b>	0.300	01/08/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 153 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>96.0</b>	16.0	01/03/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<b>29.8</b>	10.0	01/10/2013	ND	211	105	200	0.827	
DRO >C10-C28	<b>886</b>	10.0	01/10/2013	ND	234	117	200	3.68	

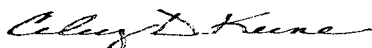
Surrogate: 1-Chlorooctane 93.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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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: 01/03/2013  
Reported: 01/10/2013  
Project Name: DWU FED #1  
Project Number: NONE GIVEN  
Project Location: CARLSBAD, NEW MEXICO

Sampling Date: 01/02/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 6 @ SW (H300011-06)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/08/2013	ND	1.67	83.6	2.00	27.0		
Toluene*	<0.050	0.050	01/08/2013	ND	1.83	91.4	2.00	26.7		
Ethylbenzene*	<0.050	0.050	01/08/2013	ND	1.76	87.9	2.00	26.4		
Total Xylenes*	<0.150	0.150	01/08/2013	ND	5.36	89.3	6.00	25.9		
Total BTEX	<0.300	0.300	01/08/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 123 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/07/2013	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/10/2013	ND	211	105	200	0.827	
DRO >C10-C28	864	10.0	01/10/2013	ND	234	117	200	3.68	

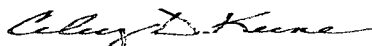
Surrogate: 1-Chlorooctane 87.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

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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: 01/03/2013  
Reported: 01/10/2013  
Project Name: DWU FED #1  
Project Number: NONE GIVEN  
Project Location: CARLSBAD, NEW MEXICO

Sampling Date: 01/02/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

### Sample ID: SP 7 @ SW (H300011-07)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2013	ND	1.67	83.6	2.00	27.0	
Toluene*	<0.050	0.050	01/08/2013	ND	1.83	91.4	2.00	26.7	
Ethylbenzene*	<0.050	0.050	01/08/2013	ND	1.76	87.9	2.00	26.4	
Total Xylenes*	<0.150	0.150	01/08/2013	ND	5.36	89.3	6.00	25.9	
Total BTEX	<0.300	0.300	01/08/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 123 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/07/2013	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/10/2013	ND	211	105	200	0.827	
DRO >C10-C28	906	10.0	01/10/2013	ND	234	117	200	3.68	

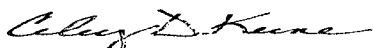
Surrogate: 1-Chlorooctane 89.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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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: 01/03/2013  
 Reported: 01/10/2013  
 Project Name: DWU FED #1  
 Project Number: NONE GIVEN  
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 01/02/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 8 @ SW (H300011-08)**

BTEx 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/08/2013	ND	1.67	83.6	2.00	27.0		
Toluene*	<0.050	0.050	01/08/2013	ND	1.83	91.4	2.00	26.7		
Ethylbenzene*	<0.050	0.050	01/08/2013	ND	1.76	87.9	2.00	26.4		
Total Xylenes*	<0.150	0.150	01/08/2013	ND	5.36	89.3	6.00	25.9		
Total BTEX	<0.300	0.300	01/08/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 122 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/07/2013	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/10/2013	ND	211	105	200	0.827	
DRO >C10-C28	935	10.0	01/10/2013	ND	234	117	200	3.68	

Surrogate: 1-Chlorooctane 84.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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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: 01/03/2013  
 Reported: 01/10/2013  
 Project Name: DWU FED #1  
 Project Number: NONE GIVEN  
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 01/02/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 9 @ SW (H300011-09)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/08/2013	ND	1.67	83.6	2.00	27.0		
Toluene*	<0.050	0.050	01/08/2013	ND	1.83	91.4	2.00	26.7		
Ethylbenzene*	<0.050	0.050	01/08/2013	ND	1.76	87.9	2.00	26.4		
Total Xylenes*	<0.150	0.150	01/08/2013	ND	5.36	89.3	6.00	25.9		
Total BTEX	<0.300	0.300	01/08/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 122 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/07/2013	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/10/2013	ND	211	105	200	0.827	
DRO >C10-C28	880	10.0	01/10/2013	ND	234	117	200	3.68	

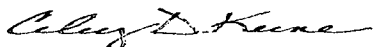
Surrogate: 1-Chlorooctane 84.5 % 63.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

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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: 01/03/2013  
 Reported: 01/10/2013  
 Project Name: DWU FED #1  
 Project Number: NONE GIVEN  
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 01/02/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 10 @ SW (H300011-10)**

BTEX 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2013	ND	1.67	83.6	2.00	27.0	
Toluene*	<0.050	0.050	01/08/2013	ND	1.83	91.4	2.00	26.7	
Ethylbenzene*	<b>0.117</b>	0.050	01/08/2013	ND	1.76	87.9	2.00	26.4	
<b>Total Xylenes*</b>	<b>0.834</b>	0.150	01/08/2013	ND	5.36	89.3	6.00	25.9	
<b>Total BTEX</b>	<b>0.951</b>	0.300	01/08/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 137 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/07/2013	ND	464	116	400	3.51	

TPH 8015M		mg/kg	Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>21.1</b>	10.0	01/10/2013	ND	211	105	200	0.827	
<b>DRO &gt;C10-C28</b>	<b>896</b>	10.0	01/10/2013	ND	234	117	200	3.68	

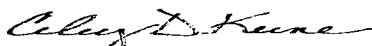
Surrogate: 1-Chlorooctane 87.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

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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: 01/03/2013  
 Reported: 01/10/2013  
 Project Name: DWU FED #1  
 Project Number: NONE GIVEN  
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 01/02/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 11 @ SW (H300011-11)**

BTEX 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2013	ND	1.67	83.6	2.00	27.0	
Toluene*	<0.050	0.050	01/08/2013	ND	1.83	91.4	2.00	26.7	
Ethylbenzene*	<b>0.090</b>	0.050	01/08/2013	ND	1.76	87.9	2.00	26.4	
<b>Total Xylenes*</b>	<b>0.644</b>	0.150	01/08/2013	ND	5.36	89.3	6.00	25.9	
<b>Total BTEX</b>	<b>0.734</b>	0.300	01/08/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 134 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	01/07/2013	ND	464	116	400	3.51	

TPH 8015M		mg/kg	Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>12.9</b>	10.0	01/10/2013	ND	211	105	200	0.827	
<b>DRO &gt;C10-C28</b>	<b>780</b>	10.0	01/10/2013	ND	234	117	200	3.68	

Surrogate: 1-Chlorooctane 90.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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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: 01/03/2013  
 Reported: 01/10/2013  
 Project Name: DWU FED #1  
 Project Number: NONE GIVEN  
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 01/02/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 12 @ SW (H300011-12)**

BTEX 8021B		mg/kg		Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/08/2013	ND	1.67	83.6	2.00	27.0		
Toluene*	<0.050	0.050	01/08/2013	ND	1.83	91.4	2.00	26.7		
Ethylbenzene*	0.072	0.050	01/08/2013	ND	1.76	87.9	2.00	26.4		
Total Xylenes*	0.624	0.150	01/08/2013	ND	5.36	89.3	6.00	25.9		
Total BTEX	0.696	0.300	01/08/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 136 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>64.0</b>	16.0	01/07/2013	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>30.8</b>	10.0	01/10/2013	ND	211	105	200	0.827		
<b>DRO &gt;C10-C28</b>	<b>1340</b>	10.0	01/10/2013	ND	234	117	200	3.68		

Surrogate: 1-Chlorooctane 91.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

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: 01/03/2013  
 Reported: 01/10/2013  
 Project Name: DWU FED #1  
 Project Number: NONE GIVEN  
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 01/02/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 13 @ SW (H300011-13)**

BTEx 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/08/2013	ND	1.67	83.6	2.00	27.0		
Toluene*	<0.050	0.050	01/08/2013	ND	1.83	91.4	2.00	26.7		
Ethylbenzene*	<0.050	0.050	01/08/2013	ND	1.76	87.9	2.00	26.4		
Total Xylenes*	<0.150	0.150	01/08/2013	ND	5.36	89.3	6.00	25.9		
Total BTEx	<0.300	0.300	01/08/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 122 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/07/2013	ND	464	116	400	3.51	
TPH 8015M		mg/kg		Analyzed By: ZZZ					

TPH 8015M		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/10/2013	ND	211	105	200	0.827	
DRO >C10-C28	978	10.0	01/10/2013	ND	234	117	200	3.68	

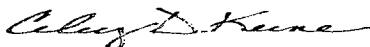
Surrogate: 1-Chlorooctane 84.0 % 63.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

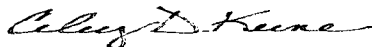
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	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

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\*=Accredited Analyte

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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**

Page 16 of 18

Company Name: BBC International, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																							
Project Manager: Cliff Brunson				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>CHLORIDE</div> <div>BTEX 8021 *</div> <div>TPH 8015 *</div> </div>																							
Address: P.O. Box 805				Company:																											
City: Hobbs State: NM Zip: 88241				Attn:																											
Phone #: 575-397-6388 Fax #: 575-397-0397				Address: SAME																											
Project #:				City:																											
Project Name: <i>Dulu Fed #1</i>				State: Zip:																											
Project Location:				Phone #:																											
Sampler Name: <i>Rogio Hernandez</i>				Fax #:																											
FOR LAB USE ONLY																															
Lab I.D.		Sample I.D.		MATRIX		PRESERV														SAMPLING											
				GROUNDWATER		WASTEWATER																									
				WATER		SOIL																									
				SLUDGE		OTHER:																									
				ACIDBASE:		ICE / COOL																									
				OTHER:																											
				DATE		TIME																									
H3000D11		1 SP 1 @ 3		✓		✓		✓		1-2-13 1100		✓																			
		2 SP 2 @ 4.5		✓		✓		✓		1-9-13 1115		✓																			
		3 SP 3 @ 3		✓		✓		✓		1-9-13 1130		✓																			
		4 SP 4 @ 1		✓		✓		✓		1-2-13 1145		✓																			
		5 SP 5 @ 1		✓		✓		✓		1-2-13 1200		✓																			
		6 SP 6 @ SW		✓		✓		✓		1-2-13 1215		✓																			
		7 SP 7 @ SW		✓		✓		✓		1-2-13 1230		✓																			
		8 SP 8 @ SW		✓		✓		✓		1-2-13 1245		✓																			
		9 SP 9 @ SW		✓		✓		✓		1-2-13 1259		✓																			
		10 SP 10 @ SW		✓		✓		✓		1-2-13 115		✓																			

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Relinquished By: <i>Rogio Hernandez</i>	Date: 1-2-13 Time: 5:00	Received By: <i>Imael Pena</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
Relinquished By: <i>Imael Pena</i>	Date: 1-3-13 Time: 8:55	Received By: <i>Jodi Henson</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 0.0°C			REMARKS: * added 1/7 as per Jennifer.
Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: <i>JH</i>	

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

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# CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 17 of 18

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		State: NM		Zip: 88241		Attn:																							
Phone #: 575-397-6388		Fax #: 575-397-0397		Address: SAME		City:																							
Project #:		Project Owner: EXY		State:		Zip:																							
Project Name: D&W Fed #1				Phone #:																									
Project Location:				Fax #:																									
Sampler Name: Wagon Hauler																													
FOR LAB USE ONLY																													
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX				PRESERV.		SAMPLING															
								GROUNDWATER																					
								WASTEWATER																					
								SOIL																					
								OIL																					
								SLUDGE																					
								OTHER:																					
								ACID/BASE:																					
								ICE / COOL																					
								OTHER:																					
												DATE		TIME															
H300011																													
11 SP 11 @ SW				G		1								1-2-13		130													
12 SP 12 @ SW				G		1								1-2-13		145													
13 SP 13 @ SW				G		1								1-2-13		100													

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Relinquished By: <i>Loops Hengst</i>		Date: 1-2-13		Received By: <i>Israel Pena</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: 5:00				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By: <i>Israel Pena</i>		Date: 1-3-13		Received By: <i>Goede Nenson</i>		REMARKS:			
		Time: 5:55							
Delivered By: (Circle One)									
Sampler - UPS - Bus - Other: <i>D.O.C.</i>		Sample Condition		CHECKED BY: <i>GH</i>					
		Cool Intact							
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							

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

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## Page 18 of 18

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#76



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

---

January 21, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: DWU FED #1

Enclosed are the results of analyses for samples received by the laboratory on 01/15/13 8:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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 fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

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: 01/15/2013  
 Reported: 01/21/2013  
 Project Name: DWU FED #1  
 Project Number: NONE GIVEN  
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 01/14/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 @ SIDEWALL (H300092-01)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/18/2013	ND	2.31	116	2.00	9.27		
Toluene*	<0.050	0.050	01/18/2013	ND	1.98	98.9	2.00	8.91		
Ethylbenzene*	<0.050	0.050	01/18/2013	ND	2.12	106	2.00	8.90		
Total Xylenes*	<0.150	0.150	01/18/2013	ND	6.51	109	6.00	8.17		
Total BTEX	<0.300	0.300	01/18/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 111 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/17/2013	ND	448	112	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	01/16/2013	ND	204	102	200	8.39	
DRO >C10-C28	<10.0	10.0	01/16/2013	ND	220	110	200	11.0	

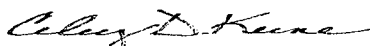
Surrogate: 1-Chlorooctane 78.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.1 % 63.6-154

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: 01/15/2013  
Reported: 01/21/2013  
Project Name: DWU FED #1  
Project Number: NONE GIVEN  
Project Location: CARLSBAD, NEW MEXICO

Sampling Date: 01/14/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 2 @ SIDEWALL (H300092-02)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/18/2013	ND	2.31	116	2.00	9.27	
Toluene*	<0.050	0.050	01/18/2013	ND	1.98	98.9	2.00	8.91	
Ethylbenzene*	<0.050	0.050	01/18/2013	ND	2.12	106	2.00	8.90	
Total Xylenes*	<0.150	0.150	01/18/2013	ND	6.51	109	6.00	8.17	
Total BTEX	<0.300	0.300	01/18/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/16/2013	ND	448	112	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	01/16/2013	ND	204	102	200	8.39	
DRO >C10-C28	<10.0	10.0	01/16/2013	ND	220	110	200	11.0	

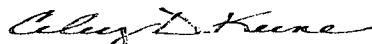
Surrogate: 1-Chlorooctane 77.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.5 % 63.6-154

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: 01/15/2013  
 Reported: 01/21/2013  
 Project Name: DWU FED #1  
 Project Number: NONE GIVEN  
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 01/14/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ SIDEWALL (H300092-03)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/18/2013	ND	2.31	116	2.00	9.27		
Toluene*	<0.050	0.050	01/18/2013	ND	1.98	98.9	2.00	8.91		
Ethylbenzene*	<0.050	0.050	01/18/2013	ND	2.12	106	2.00	8.90		
Total Xylenes*	<0.150	0.150	01/18/2013	ND	6.51	109	6.00	8.17		
Total BTEX	<0.300	0.300	01/18/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/16/2013	ND	448	112	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	01/16/2013	ND	188	93.8	200	6.01		
DRO >C10-C28	<10.0	10.0	01/16/2013	ND	196	98.2	200	6.49		

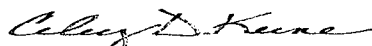
Surrogate: 1-Chlorooctane 80.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.8 % 63.6-154

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: 01/15/2013  
Reported: 01/21/2013  
Project Name: DWU FED #1  
Project Number: NONE GIVEN  
Project Location: CARLSBAD, NEW MEXICO

Sampling Date: 01/14/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 4 @ SIDEWALL (H300092-04)**

BTEx 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/18/2013	ND	2.31	116	2.00	9.27		
Toluene*	<0.050	0.050	01/18/2013	ND	1.98	98.9	2.00	8.91		
Ethylbenzene*	<0.050	0.050	01/18/2013	ND	2.12	106	2.00	8.90		
Total Xylenes*	<0.150	0.150	01/18/2013	ND	6.51	109	6.00	8.17		
Total BTEx	<0.300	0.300	01/18/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/16/2013	ND	448	112	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	01/16/2013	ND	188	93.8	200	6.01	
DRO >C10-C28	<10.0	10.0	01/16/2013	ND	196	98.2	200	6.49	

Surrogate: 1-Chlorooctane 79.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 89.9 % 63.6-154

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: 01/15/2013  
 Reported: 01/21/2013  
 Project Name: DWU FED #1  
 Project Number: NONE GIVEN  
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 01/14/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 5 @ 1' 6" (H300092-05)**

BTEx 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/18/2013	ND	2.31	116	2.00	9.27		
Toluene*	<0.050	0.050	01/18/2013	ND	1.98	98.9	2.00	8.91		
Ethylbenzene*	<0.050	0.050	01/18/2013	ND	2.12	106	2.00	8.90		
Total Xylenes*	<0.150	0.150	01/18/2013	ND	6.51	109	6.00	8.17		
Total BTEx	<0.300	0.300	01/18/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/17/2013	ND	448	112	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	01/16/2013	ND	188	93.8	200	6.01	
DRO >C10-C28	<10.0	10.0	01/16/2013	ND	196	98.2	200	6.49	

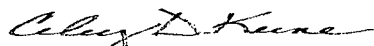
Surrogate: 1-Chlorooctane 80.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.0 % 63.6-154

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: 01/15/2013  
Reported: 01/21/2013  
Project Name: DWU FED #1  
Project Number: NONE GIVEN  
Project Location: CARLSBAD, NEW MEXICO

Sampling Date: 01/14/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 6 @ 1'6" (H300092-06)**

BTEX 8021B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/18/2013	ND	2.31	116	2.00	9.27	
Toluene*	<0.050	0.050	01/18/2013	ND	1.98	98.9	2.00	8.91	
Ethylbenzene*	<0.050	0.050	01/18/2013	ND	2.12	106	2.00	8.90	
Total Xylenes*	<0.150	0.150	01/18/2013	ND	6.51	109	6.00	8.17	
Total BTEX	<0.300	0.300	01/18/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: DW				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/17/2013	ND	448	112	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	01/16/2013	ND	188	93.8	200	6.01	
DRO >C10-C28	<10.0	10.0	01/16/2013	ND	196	98.2	200	6.49	

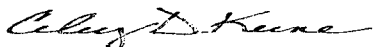
Surrogate: 1-Chlorooctane 75.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.8 % 63.6-154

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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: 01/15/2013  
Reported: 01/21/2013  
Project Name: DWU FED #1  
Project Number: NONE GIVEN  
Project Location: CARLSBAD, NEW MEXICO

Sampling Date: 01/14/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 7 @ SIDEWALL (H300092-07)**

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/18/2013	ND	2.31	116	2.00	9.27	
Toluene*	<0.050	0.050	01/18/2013	ND	1.98	98.9	2.00	8.91	
Ethylbenzene*	<0.050	0.050	01/18/2013	ND	2.12	106	2.00	8.90	
Total Xylenes*	<0.150	0.150	01/18/2013	ND	6.51	109	6.00	8.17	
Total BTX	<0.300	0.300	01/18/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/17/2013	ND	448	112	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	01/16/2013	ND	188	93.8	200	6.01	
DRO >C10-C28	<10.0	10.0	01/16/2013	ND	196	98.2	200	6.49	

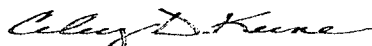
Surrogate: 1-Chlorooctane 78.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.7 % 63.6-154

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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: 01/15/2013  
 Reported: 01/21/2013  
 Project Name: DWU FED #1  
 Project Number: NONE GIVEN  
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 01/14/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 8 @ SIDEWALL (H300092-08)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/18/2013	ND	2.31	116	2.00	9.27		
Toluene*	<0.050	0.050	01/18/2013	ND	1.98	98.9	2.00	8.91		
Ethylbenzene*	<0.050	0.050	01/18/2013	ND	2.12	106	2.00	8.90		
Total Xylenes*	<0.150	0.150	01/18/2013	ND	6.51	109	6.00	8.17		
Total BTEX	<0.300	0.300	01/18/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/17/2013	ND	448	112	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	01/16/2013	ND	188	93.8	200	6.01	
DRO >C10-C28	<10.0	10.0	01/16/2013	ND	196	98.2	200	6.49	

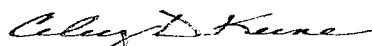
Surrogate: 1-Chlorooctane 75.8 % 63.2-140

Surrogate: 1-Chlorooctadecane 89.6 % 63.6-154

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\*=Accredited Analyte

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Celest 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: 01/03/2013  
 Reported: 01/10/2013  
 Project Name: DWU FED #1  
 Project Number: NONE GIVEN  
 Project Location: CARLSBAD, NEW MEXICO

 Sampling Date: 01/02/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 9 @ SW (H300011-09)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/08/2013	ND	1.67	83.6	2.00	27.0		
Toluene*	<0.050	0.050	01/08/2013	ND	1.83	91.4	2.00	26.7		
Ethylbenzene*	<0.050	0.050	01/08/2013	ND	1.76	87.9	2.00	26.4		
Total Xylenes*	<0.150	0.150	01/08/2013	ND	5.36	89.3	6.00	25.9		
Total BTEX	<0.300	0.300	01/08/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 122 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/07/2013	ND	464	116	400	3.51		

TPH 8015M		mg/kg		Analyzed By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/10/2013	ND	211	105	200	0.827	
DRO >C10-C28	880	10.0	01/10/2013	ND	234	117	200	3.68	

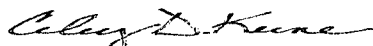
Surrogate: 1-Chlorooctane 84.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

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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: 01/03/2013  
Reported: 01/10/2013  
Project Name: DWU FED #1  
Project Number: NONE GIVEN  
Project Location: CARLSBAD, NEW MEXICO

Sampling Date: 01/02/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 10 @ SW (H300011-10)**

BTEX 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/08/2013	ND	1.67	83.6	2.00	27.0	
Toluene*	<0.050	0.050	01/08/2013	ND	1.83	91.4	2.00	26.7	
Ethylbenzene*	<b>0.117</b>	0.050	01/08/2013	ND	1.76	87.9	2.00	26.4	
<b>Total Xylenes*</b>	<b>0.834</b>	0.150	01/08/2013	ND	5.36	89.3	6.00	25.9	
<b>Total BTEX</b>	<b>0.951</b>	0.300	01/08/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 137 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/07/2013	ND	464	116	400	3.51	

TPH 8015M		mg/kg	Analyzed By: ZZZ						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>21.1</b>	10.0	01/10/2013	ND	211	105	200	0.827	
<b>DRO &gt;C10-C28</b>	<b>896</b>	10.0	01/10/2013	ND	234	117	200	3.68	

Surrogate: 1-Chlorooctane 87.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

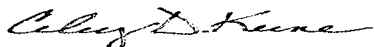
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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\*=Accredited Analyte

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---

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.				<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>									
Project Manager: Cliff Brunson				P.O. #:		<div style="display: flex; justify-content: space-around;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CARDRIPE</div> </div>									
Address: P.O. Box 805				Company:											
City: Hobbs		State: NM		Zip: 88241											
Phone #: 575-397-6388		Fax #: 575-397-0397		Attn: <i>SALE</i>											
Project #:		Project Owner: <i>ON</i>		Address: <i>SALE</i>											
Project Name: <i>Dist Fed H 1</i>		City:		State: Zip:											
Project Location: <i>Embsford 400</i>		Phone #:		Fax #:											
Sampler Name: <i>Roger Hernandez</i>															

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.			SAMPLING		DATE	TIME
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:			
H300092															
1	SP1 @ SIDEWALK	1	1											1-14-13	2:40
2	SP2 @ SIDEWALK	1	1											1-14-13	7:20
3	SP3 @ SIDEWALK	1	1											1-14-13	2:29
4	SP4 @ SIDEWALK	1	1											1-14-13	2:40
5	SP5 @ 1' 6"	1	1											1-14-13	2:47
6	SP6 @ 1' 6"	1	1											1-14-13	2:55
7	SP7 @ SIDEWALK	1	1											1-14-13	3:05
8	SP8 @ SIDEWALK	1	1											1-14-13	3:10
9	SP9 @ SIDEWALK	1	1											1-14-13	3:20
10	SP10 @ SIDEWALK	1	1											1-14-13	3:30

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Relinquished By: <i>Roger Hernandez</i>	Date: <i>1-15-13</i>	Received By: <i>Wadi Benson</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <i>6:15</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)		
Sampler - UPS - Bus - Other: <i>0.0%</i>	Cool - Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>Wadi Benson</i>		

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

#26

## Kathy Purvis

---

**From:** Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>  
**Sent:** Wednesday, November 14, 2012 4:20 PM  
**To:** Cliff P. Brunson  
**Cc:** Chris Jones; Ken Swinney; Kathy Purvis; Jennifer Gilkey  
**Subject:** RE: Oxy-DWU Federal #1

Reference: OXY USA \* DWU Federal 1 \* 30-015-20799 \* J-34-19s-28e \* Eddy County, New Mexico  
OCD Tracking Number: 2RP-1402 \* Date of release: unknown at this time

Cliff,

Your proposal for remediation of the above referenced release is approved with the following conditions/stipulations:

- Notify OCD 48 hours prior to commencement of remedial operations.
- Notify OCD 48 hours prior to obtaining samples where the analyses will be submitted to OCD.
- Obtain representative confirmation samples of bottom and sidewalls of excavations outside of battery and test for TPH/BTEX.
- The area identified as SP2 will require deeper excavation than the proposed 3 feet due to total BTEX levels above acceptable limits at the 4 foot interval.
- Deeper delineation for chlorides will be required in the battery area (areas identified as SP7, SP8 and SP9).
- Submit a closure report and Form C-141 marked Final Report upon satisfactory completion of project.
- Approval by BLM and/or any other regulatory authority as may be applicable.

It is OCD's understanding that contamination at this site is from an older release. Please submit a Form C-141 marked Initial Report for the release. If a C-141 has been previously submitted, please provide a copy of that form.

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 Street  
Artesia, NM 88210  
O: 575-748-1283 X108  
C: 575-626-0857  
F: 575-748-9720

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**From:** Cliff P. Brunson [<mailto:cbrunson@bbcinternational.com>]  
**Sent:** Tuesday, September 11, 2012 7:06 PM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** Chris Jones; Ken Swinney; Kathy Purvis; Jennifer Gilkey  
**Subject:** Oxy-DWU Federal #1

Mike,

This e-mail is to confirm our discussion on September 5, 2012 concerning the remediation plan for the release that occurred at the Oxy DWU Federal #1. As agreed, Oxy will excavate 3 feet in the areas covered by SP1 - SP3 and will excavate to a depth of 1 foot in the areas covered by SP4 - SP6 as depicted on the attached site diagram. In addition, inside the tank battery berm area, a compacted clay liner will be installed in the previously excavated 2 foot area then backfilled. The excavation will then be backfilled with clean soil. The depth to groundwater in this area is approximately 100 feet.

I have attached the site drawing and the summary of the laboratory data we reviewed during our discussion for your files. If you would please reply back via e-mail with your concurrence of this remediation plan, it would be greatly appreciated.

Oxy and I thank you for your assistance in handling this matter.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS  
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World-Wide Environmental Specialists  
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## Kathy Purvis

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**From:** Cliff P. Brunson <cbrunson@bbcinternational.com>  
**Sent:** Friday, December 14, 2012 11:26 AM  
**To:** Ken Swinney; Jennifer Gilkey; Kathy Purvis  
**Subject:** FW: Undesirable Event: 11NU028TG, DWU Federal 1: cleanup plan approval stipulations

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**From:** Terry Gregston <[tgregsto@blm.gov](mailto:tgregsto@blm.gov)>  
**Date:** Friday, December 14, 2012 11:13 AM  
**To:** Chris Jones <[Christopher.Jones@oxy.com](mailto:Christopher.Jones@oxy.com)>, Mike Bratcher <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>  
**Cc:** Cliff Brunson <cbrunson@bbcinternational.com>  
**Subject:** Undesirable Event: 11NU028TG, DWU Federal 1: cleanup plan approval stipulations

Mr. Jones, Mr. Brunson,

This notification is in regard to the following location and undesirable event:

Event Number: 11NU028TG  
Event Date: 1/8/2011  
Event Name: DWU Federal 1  
Legals: T19S/R28E, sec. 34, NWSE

The submitted cleanup plan for the above location is approved with the following conditions of approval:

**Notification Stipulations:**

1. A copy of the cleanup plan and conditions of approval must be given to the contractor or site work personnel and be present on the location during all cleanup operations.
2. The authorized officer must be notified at the following phases of cleanup or conditions:
  - a. Prior to moving equipment on location for cleanup
  - b. When the excavation is nearing completion and a BLM inspection of the excavation or witnessing of sampling is required by the cleanup plan COA's.
  - c. When the cleanup work is nearing completion and to schedule a final onsite prior to removal of equipment.
  - d. Three days before the site is seeded.
  - e. Any time that a variance of the approved plan or conditions of approval is required.
  - f. In the event that you encounter excavation difficulties, unexpected void areas, or archeological artifacts the Authorized Officer must be contacted immediately. An onsite may be required to assess the situation.
3. The authorized officer on this undesirable event case is:

**Terry Gregston**  
**(575) 361-2635**  
**[tgregsto@blm.gov](mailto:tgregsto@blm.gov)**

**Plan Implementation:**

1. Cleanup actions must be initiated within **30** days of plan approval.

**Archeology Stipulations:**

1. There are no known archeological issues on this location.

In the event that archeological artifacts are discovered during cleanup operations, contact the authorized officer on this case immediately. An onsite will be required to assess the situation.

### **Facility Cleanup Stipulations:**

#### **Unlined facility:**

1. A 1' clay liner will be installed at the 2 foot depth as stipulated in the cleanup plan submitted.
2. The BLM requires horizontal cleanup of the spill impacted areas in addition to vertical cleanup/mitigation measures. In this case, the location is still a working tank battery location. As such, excavation depths in portions of the spill area in close proximity to standing production equipment may be limited due to safety concerns. In such cases, the cleanup measures will be considered a temporary spill abatement measure that will be further mitigated upon the abandonment of the well/facility location. Appropriate notations to that effect will be entered in the well file.
3. Cleanup will include removal of any contaminated berm materials and/or unsuitable berm materials such as sandy soils, gravels, or cobblestones. Tank battery berms should be built of compactable caliche that is capable of fluid containment.
4. Once final approval of cleanup is given, the clay liner can be installed and the facility excavation can be backfilled with compactable caliche to the level of the original native contour plus enough loft to accommodate the settling and compaction of unconsolidated fill soils.
5. Install secondary containment berms of good quality compactable caliche around existing production equipment and the pad to prevent future spills from being released off the facility location.

### **Road Cleanup Stipulations:**

1. The BLM requires horizontal cleanup of the spill impacted areas in addition to vertical cleanup/mitigation measures.
2. The BLM may wish to inspect the excavation once it reaches cleanup depth/width. Confirmation samples of excavation bottom, sidewalls and any visibly affected areas outside of the excavation trench will be required; the BLM may witness the sampling. Contact the authorized officer to schedule.
3. Lab analysis of the confirmation sampling must be forwarded to the authorized officer for final approval before backfilling. Based on the sampling results, additional cleanup may be required or the site may be approved for closure.
4. Once final approval of cleanup is given, the excavation can be backfilled with clean soil to the level of the original native contour plus enough loft to accommodate the settling and compaction of unconsolidated fill soils.
5. Road areas should be resurfaced with 6" of clean caliche on top of the backfill material.

### **Pasture Impacted Areas:**

1. The BLM requires horizontal cleanup of the spill impacted areas in addition to vertical cleanup/mitigation measures.
2. The BLM may wish to inspect the excavation once it reaches cleanup depth/width. Confirmation samples of excavation bottoms, sidewalls and any visibly affected areas outside of the excavation trench will be required; the BLM may witness the sampling. Contact the authorized officer to schedule.
3. Lab analysis of the confirmation sampling must be forwarded to the authorized officer for final approval before backfilling. Based on the sampling results, additional cleanup may be required or the site may be approved for closure.
4. Once final approval of cleanup is given, the excavation can be backfilled with clean soil to the level of the original native contour plus enough loft to accommodate the settling and compaction of unconsolidated fill soils.
5. The top 2 feet of the backfill material must be topsoil similar to that in the surrounding native terrain.
6. If pastures are not contaminated but are impacted by cleanup operations, the impacts to the pasture areas will be mitigated by recontouring the impacted areas and restoring the surface as listed in items 7 through 9 of this section.
7. Install erosion control measures in the pasture-affected areas to prevent the unconsolidated reclamation materials from washing or blowing away until reclaimed areas settle and begin to revegetate.
8. Rip and seed reclaimed and equipment-impacted pasture areas with BLM seed mix #2 and #4, 50/50 mix.
9. Barricade entrance to reclaimed pasture areas with fencing or an earthen barrier sufficient to prevent vehicular access.
10. Continue to monitor spill reclamation area to ensure impacted pasture areas revegetate and that erosion issues do not develop.

### **Other Stipulations:**

1. At the time of the final onsite for this location, the production facilities, well pad, access road, and the surrounding pasture areas must be in a condition that will pass a routine inspection.
2. All household trash, debris, disconnected pipe and equipment must be removed from the area and the surrounding pasture and hauled to an authorized landfill. Do not bury cleanup trash, equipment debris, or household garbage in the cleanup excavation.

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**BLM approval of this proposal does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health, or the environment, or if the location fails to reclaim properly. In such an event that location does not revegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state, or local laws/regulations.**

Thank you for your attention to this matter,

**Terry Gregston**

Environmental Protection Specialist  
Bureau of Land Management  
620 E. Greene St.  
Carlsbad, NM 88220  
Office (575) 234-5958  
Cell (575) 361-2635  
Fax (575) 234-5927

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## Kathy Purvis

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**From:** Cliff P. Brunson <cbrunson@bbcinternational.com>  
**Sent:** Wednesday, January 30, 2013 5:24 PM  
**To:** Kathy Purvis  
**Subject:** FW: Undesirable Event: 11NU028TG, DWU Federal 1: Backfill approval

Cliff P. Brunson, CEI, CRS  
President  
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**From:** Terry Gregston <[tgregsto@blm.gov](mailto:tgregsto@blm.gov)>  
**Date:** Wednesday, January 30, 2013 5:13 PM  
**To:** James Amos <[jamos@blm.gov](mailto:jamos@blm.gov)>, Chris Jones <[Christopher\\_Jones@oxy.com](mailto:Christopher_Jones@oxy.com)>, Ken Swinney <[kswinney@bbcinternational.com](mailto:kswinney@bbcinternational.com)>, Cliff Brunson <[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)>  
**Subject:** Undesirable Event: 11NU028TG, DWU Federal 1: Backfill approval

Gentlemen,

This notification is in regard to the following location and undesirable event:

Event Number: 11NU028TG  
Event Date: 1/8/2011  
Event Name: DWU Federal 1  
Legals: T19S/R28E, sec. 34, NWSE

The excavation on this location is approved to close. Cleanup plan stipulations apply for closure, final dirtwork and seeding. Notify BLM when final dirtwork is done. Notify BLM when the location is seeded.

Thank you for your attention to these concerns,

**Terry Gregston**  
Environmental Protection Specialist  
Bureau of Land Management  
620 E. Greene St.  
Carlsbad, NM 88220

Office (575) 234-5958  
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