

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 Inc.	Contact	Chancey Summers
Address	1017 W. Stanolind Rd, Hobbs, NM	Telephone No.	(575) 397-8216
Facility Name	Federal 27 #8	Facility Type	Well
Surface Owner	BLM	Mineral Owner	API No. 30-025-32755

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	27	22S	32E	580'	South	790'	West	Lea

Latitude N 32.35681° Longitude W 103.6680°

NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	15 bbls	Volume Recovered	0 bbls
Source of Release	Stuffing box leak on well head	Date and Hour of Occurrence	02/18/2014	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Geoffrey Leking- NMOCD, Jennifer Van Curen- BLM			
By Whom?	Kathy Purvis, BBC International	Date and Hour	02/18/2014 @ 3:20 pm		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*


Describe Cause of Problem and Remedial Action Taken.*

The stuffing box on the well head leaked 15 bbls of produced water onto the ground. No fluids were recovered and the stuffing box was repaired.

Describe Area Affected and Cleanup Action Taken.*

The affected area was approximately 20' x 60' on the location pad and 2' x 15' off the location pad. Remediation was completed in accordance with the remediation plan approved by Geoffrey Leking of NMOCD via email on 07/01/2014 and approved by Jennifer Van Curen in a meeting on 06/30/2014.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:				OIL CONSERVATION DIVISION	
Printed Name:	Chancey Summers			Approved by District Supervisor: Jocelyn Harimon	
Title:	HES Advisor			Approval Date:	04/10/2023
E-mail Address:	Chancey.Summers@oxy.com			Expiration Date:	
Date:	10-10-19			Conditions of Approval:	None
Phone:	(575) 397-8216			Attached	<input type="checkbox"/>

* Attach Additional Sheets If Necessary

Closure Report

Site Description

Site Name:	Federal 27 #8
Company:	Oxy Permian Ltd.
Legal Description:	U/L M, Section 27, T22S, R32E
County:	Lea County, NM
GPS Coordinates:	N 32.35703° W 103.66887°

Release Data

Date of Release:	02/18/2014
Type of Release:	Produced water
Source of Release:	Stuffing box leak on wellhead
Volume of Release:	15 bbls
Volume Recovered:	0 bbls

Remediation Specifications

Remediation Parameters:	Excavate to a depth of a minimum of 7 feet in the area around SP1. Excavate to a depth of a minimum of 1 foot in the areas of SP2 and SP4. Excavate to a depth of a minimum of 3 feet in the area of SP3. Obtain a bottom confirmation field screen at SP1. Backfill the site with clean soil.	
Remediation Activities:	09/02/2014 to 09/29/2014	
Plan Sent to OCD:	06/26/2014	Email from Cliff Brunson to Geoffrey Leking
OCD Approval of Plan:	07/01/2014	Email from Geoffrey Leking to Cliff Brunson
Plan Sent to BLM:	06/26/2014	Email from Cliff Brunson to J. Van Curen
BLM Approval of Plan:	06/30/2014	Meeting between C. Brunson & J. Van Curen

Supporting Documentation

Initial C-141	Signed 02/19/2014
Final C-141	Signed 10/10/2014
Site Diagram	February 2014
Groundwater Plot	400'
TOPO Maps	February 2014
Lab Summary	03/15/2014-03/16/2014
Lab Analysis	03/15/2014-03/16/2014
Correspondence	Request and approval of remediation plan via email

Request for Closure

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

Cliff Brunson, President of BBC International Inc.

10/20/2014

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Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Oxy USA Inc.	Contact	Austin Tramell
Address	1017 W. Stanolind Rd, Hobbs, NM	Telephone No.	(575) 397-8210
Facility Name	Federal 27 #8	Facility Type	Well
Surface Owner	BLM	Mineral Owner	
		Lease No.	30-025-32755

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	27	22S	32E	580'	South	790'	West	Lea

Latitude N 32.35681° Longitude W 103.6680°

NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	15 bbls	Volume Recovered	0 bbls
Source of Release	Stuffing box leak on well head	Date and Hour of Occurrence	02/18/2014	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Goefrey Leking- NMOCD, Jennifer Van Curen- BLM		
By Whom?	Kathy Purvis, BBC International	Date and Hour	02/18/2014 @ 3:20 pm		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

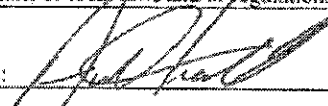
Describe Cause of Problem and Remedial Action Taken.*

The stuffing box on the well head leaked 15 bbls of produced water onto the ground. No fluids were recovered and the stuffing box was repaired.

Describe Area Affected and Cleanup Action Taken.*

The affected area was approximately 20' x 60' on the location pad and 2' x 15' off the location pad. Remediation will be completed in accordance with a plan approved by 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: 	OIL CONSERVATION DIVISION	
Printed Name: Austin Tramell	Approved by District Supervisor:	
Title: HES Coordinator	Approval Date:	Expiration Date:
E-mail Address: Austin.Tramell@oxy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 2/19/14	Phone: (575) 397-8210	

* Attach Additional Sheets If Necessary

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☐ Initial Report ☒ Final Report

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Address	1017 W. Stanolind Rd, Hobbs, NM	Telephone No.	(575) 397-8216
Facility Name	Federal 27 #8	Facility Type	Well
Surface Owner	BLM	Mineral Owner	
		API No. 30-025-32755	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	27	22S	32E	580'	South	790'	West	Lea

Latitude N 32.35681° Longitude W 103.6680°

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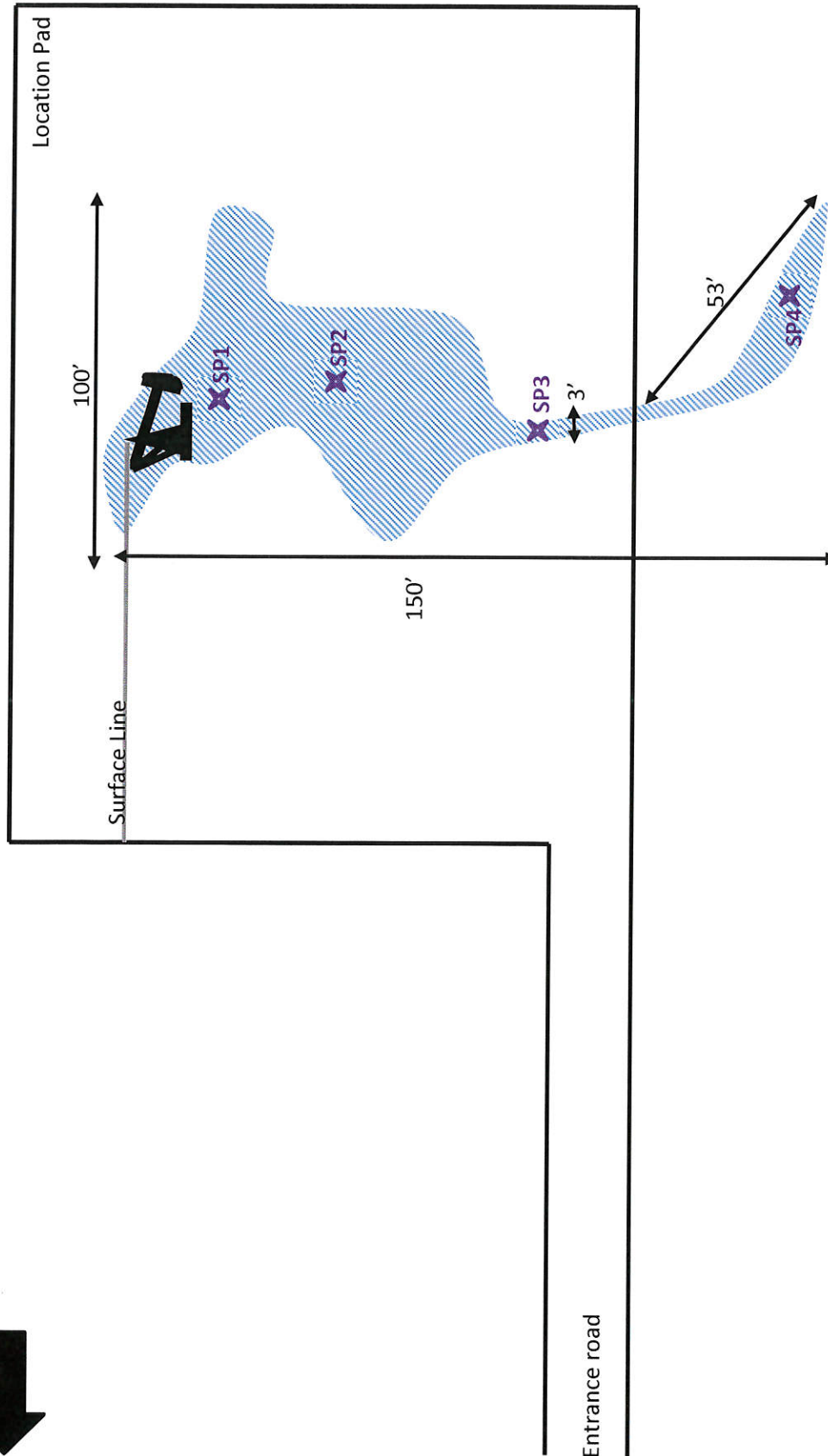
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Signature:				OIL CONSERVATION DIVISION	
Printed Name:	Chancey Summers			Approved by District Supervisor:	
Title:	HES Advisor			Approval Date:	Expiration Date:
E-mail Address:	Chancey.Summers@oxy.com			Conditions of Approval:	Attached <input type="checkbox"/>
Date:	10-10-19			Phone:	(575) 397-8216

* Attach Additional Sheets If Necessary

Oxy Federal 27 #8



U/L M, Section 27, T22S, R32E

580' FSL, 790' FWL

Lea County, NM

GPS at stake: N 32.35703° W 103.66887°

BBC International, Inc.

Oxy

Federal 27 #8

Date: 02/25/2014 DRWG by: K. Purvis

NOT TO SCALE File: Oxy 2014

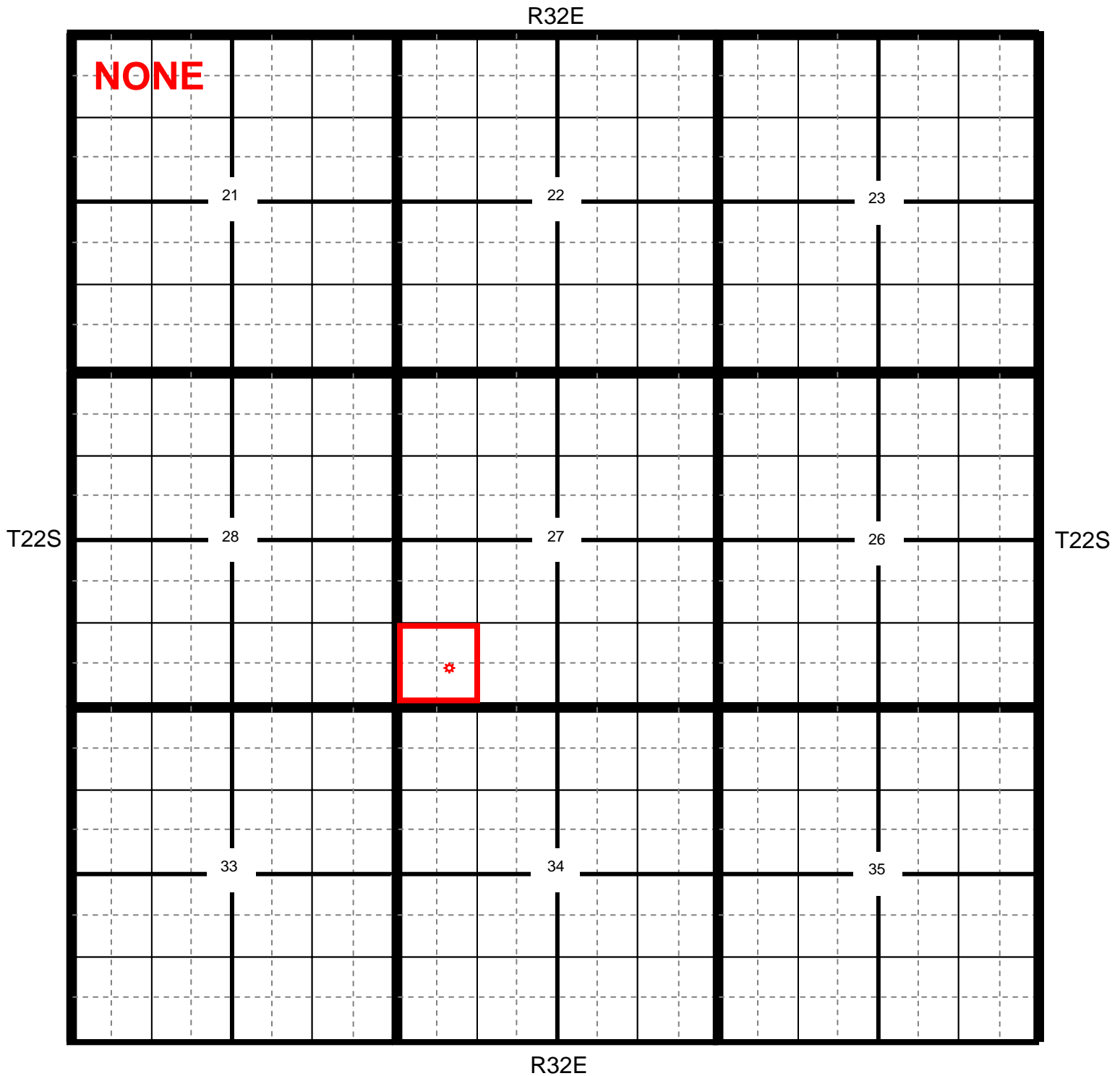


Groundwater Plot

Oxy Federal 27 #8

County
LeaUnit Letter
MSection
27Township
22SRange
32E

Trend Map 400'



* Location

● OCD

● USGS

● SEO

● All Databases



Section Quarters


Oxy Federal 27 #8

County	Unit Letter	Section	Township	Range
Lea	M	27	22S	32E

Trend Map 400'

1

2

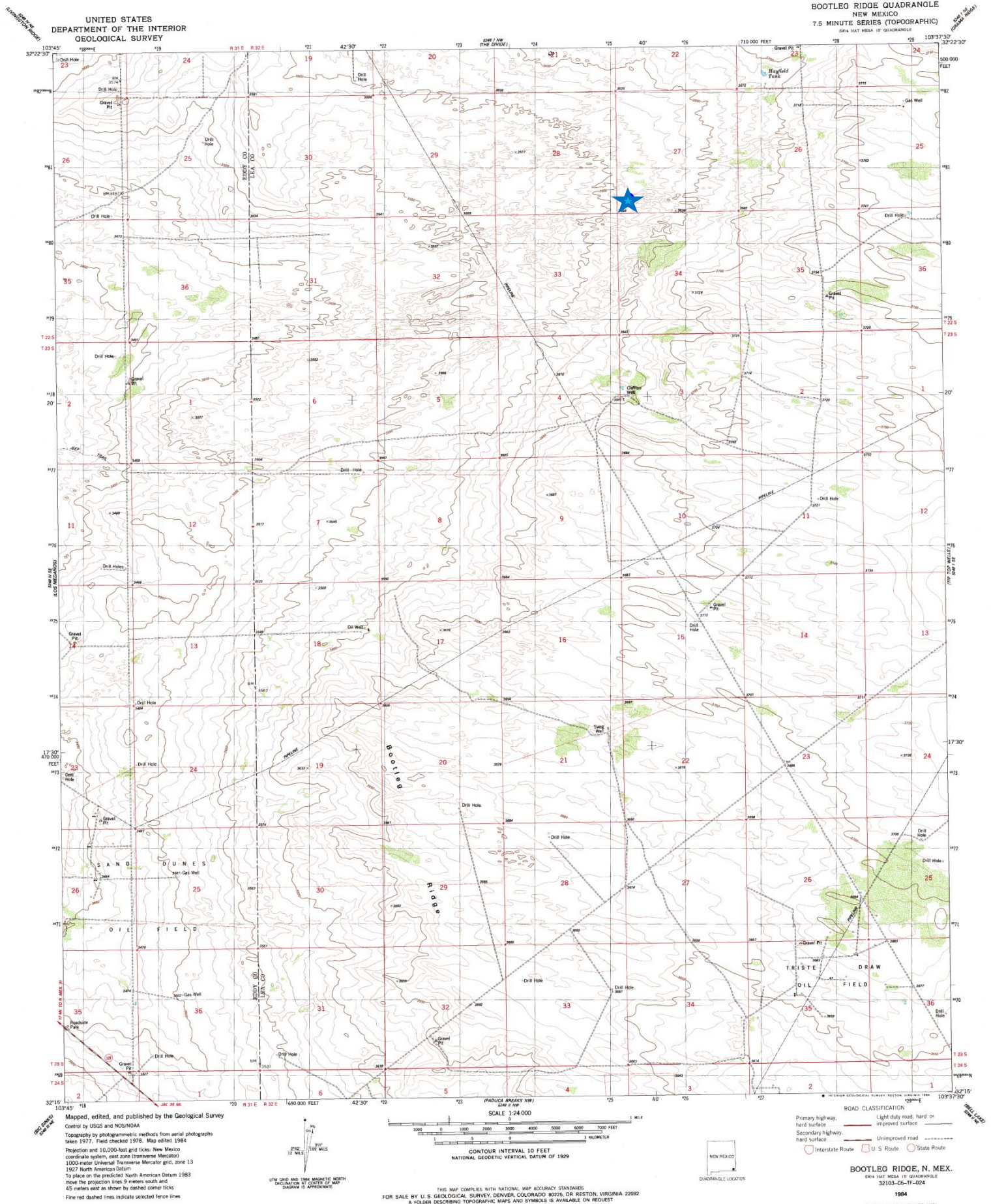
NW/NW NONE	NE/NW	NW/NE	NE/NE
Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SW/NW	SE/NW	SW/NE	SE/NE
Unit Letter E	Unit Letter F	Unit Letter G	Unit Letter H
NW/SW	NE/SW	NW/SE	NE/SE
Unit Letter L	Unit Letter K	Unit Letter J	Unit Letter I
SW/SW 	SE/SW	SW/SE	SE/SE
Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P

3

4

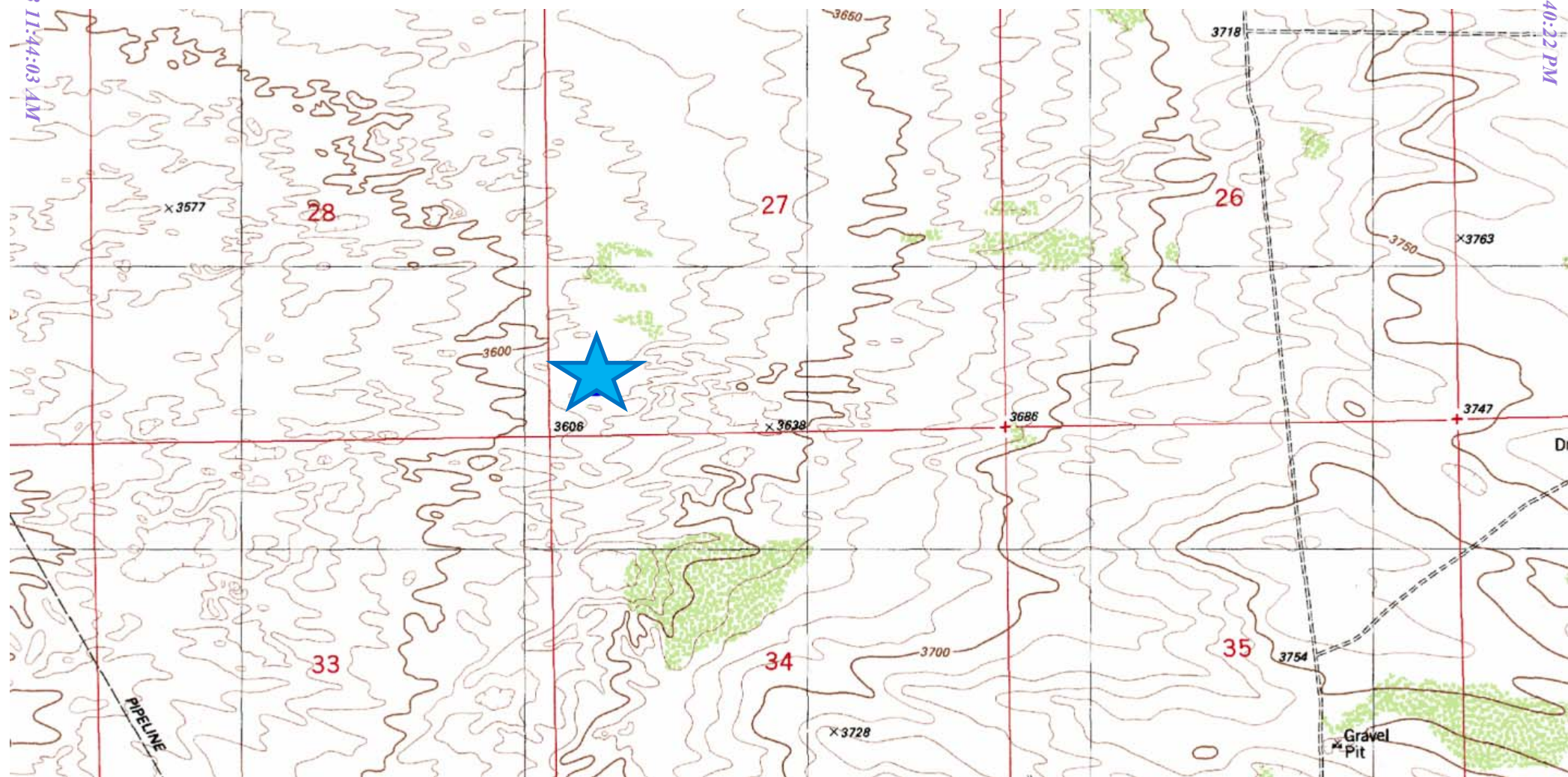
 Location
  OCD
  USGS
  SEO
  All Databases

Federal 27 #8



Oxy

Federal 27 #8



**Laboratory Analytical Results Summary
Federal 27 #8**

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 5'	SP1 @ 7'	SP1 @ 9'
Analyte	Method	Date	3/15/14	3/15/14	3/15/14	3/15/14	3/15/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		<16.0	384	3480	4320	336
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 4'
Analyte	Method	Date	3/15/14	3/15/14	3/15/14
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		1760	416	240
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0

		Sample	SP3 @ 1'	SP3 @ 3'	SP3 @ 5'	SP3 @ 7'	SP3 @ 8'
Analyte	Method	Date	3/16/14	3/16/14	3/16/14	3/16/14	3/16/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		2600	1330	576	128	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0

		Sample	SP4 @ 1'	SP4 @ 3'	SP4 @ 5'
Analyte	Method	Date	3/16/14	3/16/14	3/16/14
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		13100	<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		108	<10.0	<10.0



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

March 31, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: FEDERAL 27 #8

Enclosed are the results of analyses for samples received by the laboratory on 03/25/14 9:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/25/2014
 Reported: 03/31/2014
 Project Name: FEDERAL 27 #8
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

Sampling Date: 03/15/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1' (H400872-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2014	ND	2.44	122	2.00	2.62	
Toluene*	<0.050	0.050	03/28/2014	ND	2.32	116	2.00	2.19	
Ethylbenzene*	<0.050	0.050	03/28/2014	ND	2.26	113	2.00	1.89	
Total Xylenes*	<0.150	0.150	03/28/2014	ND	6.62	110	6.00	1.24	
Total BTX	<0.300	0.300	03/28/2014	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/27/2014	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	03/26/2014	ND	190	94.9	200	2.52	
DRO >C10-C28	<10.0	10.0	03/26/2014	ND	188	93.8	200	2.38	

Surrogate: 1-Chlorooctane 111 % 65.2-140

Surrogate: 1-Chlorooctadecane 114 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/25/2014
 Reported: 03/31/2014
 Project Name: FEDERAL 27 #8
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

Sampling Date: 03/15/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 3' (H400872-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2014	ND	2.44	122	2.00	2.62		
Toluene*	<0.050	0.050	03/28/2014	ND	2.32	116	2.00	2.19		
Ethylbenzene*	<0.050	0.050	03/28/2014	ND	2.26	113	2.00	1.89		
Total Xylenes*	<0.150	0.150	03/28/2014	ND	6.62	110	6.00	1.24		
Total BTEx	<0.300	0.300	03/28/2014	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	03/27/2014	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	03/26/2014	ND	219	110	200	2.07	
DRO >C10-C28	<10.0	10.0	03/26/2014	ND	202	101	200	1.68	

Surrogate: 1-Chlorooctane 99.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.9 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/25/2014
 Reported: 03/31/2014
 Project Name: FEDERAL 27 #8
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

Sampling Date: 03/15/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 5' (H400872-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2014	ND	2.44	122	2.00	2.62		
Toluene*	<0.050	0.050	03/28/2014	ND	2.32	116	2.00	2.19		
Ethylbenzene*	<0.050	0.050	03/28/2014	ND	2.26	113	2.00	1.89		
Total Xylenes*	<0.150	0.150	03/28/2014	ND	6.62	110	6.00	1.24		
Total BTEx	<0.300	0.300	03/28/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3480	16.0	03/27/2014	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	03/26/2014	ND	219	110	200	2.07	
DRO >C10-C28	<10.0	10.0	03/26/2014	ND	202	101	200	1.68	

Surrogate: 1-Chlorooctane 76.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.4 % 63.6-154

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Analytical Results For:

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

Received: 03/25/2014
 Reported: 03/31/2014
 Project Name: FEDERAL 27 #8
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

Sampling Date: 03/15/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 7' (H400872-04)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2014	ND	2.61	131	2.00	5.08	
Toluene*	<0.050	0.050	03/28/2014	ND	2.48	124	2.00	5.09	
Ethylbenzene*	<0.050	0.050	03/28/2014	ND	2.42	121	2.00	5.04	
Total Xylenes*	<0.150	0.150	03/28/2014	ND	6.94	116	6.00	5.30	
Total BTX	<0.300	0.300	03/28/2014	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	03/27/2014	ND	416	104	400	3.92	

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	03/26/2014	ND	219	110	200	2.07	
DRO >C10-C28	<10.0	10.0	03/26/2014	ND	202	101	200	1.68	

Surrogate: 1-Chlorooctane 74.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 83.9 % 63.6-154

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Received: 03/25/2014
 Reported: 03/31/2014
 Project Name: FEDERAL 27 #8
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

Sampling Date: 03/15/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 9' (H400872-05)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2014	ND	2.61	131	2.00	5.08	
Toluene*	<0.050	0.050	03/28/2014	ND	2.48	124	2.00	5.09	
Ethylbenzene*	<0.050	0.050	03/28/2014	ND	2.42	121	2.00	5.04	
Total Xylenes*	<0.150	0.150	03/28/2014	ND	6.94	116	6.00	5.30	
Total BTX	<0.300	0.300	03/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	03/27/2014	ND	416	104	400	3.92	

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	03/26/2014	ND	219	110	200	2.07	
DRO >C10-C28	<10.0	10.0	03/26/2014	ND	202	101	200	1.68	

Surrogate: 1-Chlorooctane 87.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.9 % 63.6-154

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Received: 03/25/2014
 Reported: 03/31/2014
 Project Name: FEDERAL 27 #8
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

Sampling Date: 03/15/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 1' (H400872-06)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2014	ND	2.61	131	2.00	5.08	
Toluene*	<0.050	0.050	03/28/2014	ND	2.48	124	2.00	5.09	
Ethylbenzene*	<0.050	0.050	03/28/2014	ND	2.42	121	2.00	5.04	
Total Xylenes*	<0.150	0.150	03/28/2014	ND	6.94	116	6.00	5.30	
Total BTX	<0.300	0.300	03/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	03/27/2014	ND	416	104	400	3.92	

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	03/26/2014	ND	219	110	200	2.07	
DRO >C10-C28	<10.0	10.0	03/26/2014	ND	202	101	200	1.68	

Surrogate: 1-Chlorooctane 87.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.2 % 63.6-154

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Received: 03/25/2014
 Reported: 03/31/2014
 Project Name: FEDERAL 27 #8
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

Sampling Date: 03/15/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 3' (H400872-07)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2014	ND	2.61	131	2.00	5.08	
Toluene*	<0.050	0.050	03/28/2014	ND	2.48	124	2.00	5.09	
Ethylbenzene*	<0.050	0.050	03/28/2014	ND	2.42	121	2.00	5.04	
Total Xylenes*	<0.150	0.150	03/28/2014	ND	6.94	116	6.00	5.30	
Total BTEx	<0.300	0.300	03/28/2014	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	03/27/2014	ND	416	104	400	3.92		

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	03/26/2014	ND	219	110	200	2.07	
DRO >C10-C28	<10.0	10.0	03/26/2014	ND	202	101	200	1.68	

Surrogate: 1-Chlorooctane 89.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.6 % 63.6-154

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Received: 03/25/2014
 Reported: 03/31/2014
 Project Name: FEDERAL 27 #8
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

Sampling Date: 03/15/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 4' (H400872-08)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2014	ND	2.61	131	2.00	5.08	
Toluene*	<0.050	0.050	03/28/2014	ND	2.48	124	2.00	5.09	
Ethylbenzene*	<0.050	0.050	03/28/2014	ND	2.42	121	2.00	5.04	
Total Xylenes*	<0.150	0.150	03/28/2014	ND	6.94	116	6.00	5.30	
Total BTEX	<0.300	0.300	03/28/2014	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	03/27/2014	ND	416	104	400	3.92		

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	03/26/2014	ND	219	110	200	2.07	
DRO >C10-C28	<10.0	10.0	03/26/2014	ND	202	101	200	1.68	

Surrogate: 1-Chlorooctane 85.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.4 % 63.6-154

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Received: 03/25/2014
 Reported: 03/31/2014
 Project Name: FEDERAL 27 #8
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

Sampling Date: 03/16/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ 1' (H400872-09)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2014	ND	2.61	131	2.00	5.08	
Toluene*	<0.050	0.050	03/28/2014	ND	2.48	124	2.00	5.09	
Ethylbenzene*	<0.050	0.050	03/28/2014	ND	2.42	121	2.00	5.04	
Total Xylenes*	<0.150	0.150	03/28/2014	ND	6.94	116	6.00	5.30	
Total BTX	<0.300	0.300	03/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2600	16.0	03/27/2014	ND	416	104	400	3.92		

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	03/26/2014	ND	219	110	200	2.07	
DRO >C10-C28	<10.0	10.0	03/26/2014	ND	202	101	200	1.68	

Surrogate: 1-Chlorooctane 90.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.4 % 63.6-154

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Received: 03/25/2014
 Reported: 03/31/2014
 Project Name: FEDERAL 27 #8
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

Sampling Date: 03/16/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ 3' (H400872-10)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2014	ND	2.61	131	2.00	5.08	
Toluene*	<0.050	0.050	03/28/2014	ND	2.48	124	2.00	5.09	
Ethylbenzene*	<0.050	0.050	03/28/2014	ND	2.42	121	2.00	5.04	
Total Xylenes*	<0.150	0.150	03/28/2014	ND	6.94	116	6.00	5.30	
Total BTEx	<0.300	0.300	03/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	03/27/2014	ND	416	104	400	3.92	

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	03/27/2014	ND	219	110	200	2.07	
DRO >C10-C28	<10.0	10.0	03/27/2014	ND	202	101	200	1.68	

Surrogate: 1-Chlorooctane 76.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.1 % 63.6-154

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Received: 03/25/2014
 Reported: 03/31/2014
 Project Name: FEDERAL 27 #8
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

Sampling Date: 03/16/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ 5' (H400872-11)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2014	ND	2.61	131	2.00	5.08	
Toluene*	<0.050	0.050	03/28/2014	ND	2.48	124	2.00	5.09	
Ethylbenzene*	<0.050	0.050	03/28/2014	ND	2.42	121	2.00	5.04	
Total Xylenes*	<0.150	0.150	03/28/2014	ND	6.94	116	6.00	5.30	
Total BTEx	<0.300	0.300	03/28/2014	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	03/27/2014	ND	416	104	400	3.92	

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	03/27/2014	ND	219	110	200	2.07	
DRO >C10-C28	<10.0	10.0	03/27/2014	ND	202	101	200	1.68	

Surrogate: 1-Chlorooctane 81.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.1 % 63.6-154

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Received: 03/25/2014
 Reported: 03/31/2014
 Project Name: FEDERAL 27 #8
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

Sampling Date: 03/16/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ 7' (H400872-12)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2014	ND	2.61	131	2.00	5.08	
Toluene*	<0.050	0.050	03/28/2014	ND	2.48	124	2.00	5.09	
Ethylbenzene*	<0.050	0.050	03/28/2014	ND	2.42	121	2.00	5.04	
Total Xylenes*	<0.150	0.150	03/28/2014	ND	6.94	116	6.00	5.30	
Total BTEx	<0.300	0.300	03/28/2014	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/27/2014	ND	416	104	400	3.92	

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	03/27/2014	ND	212	106	200	5.95	
DRO >C10-C28	<10.0	10.0	03/27/2014	ND	200	100	200	1.66	

Surrogate: 1-Chlorooctane 75.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 83.0 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/25/2014
 Reported: 03/31/2014
 Project Name: FEDERAL 27 #8
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

Sampling Date: 03/16/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ 8' (H400872-13)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2014	ND	2.61	131	2.00	5.08	
Toluene*	<0.050	0.050	03/28/2014	ND	2.48	124	2.00	5.09	
Ethylbenzene*	<0.050	0.050	03/28/2014	ND	2.42	121	2.00	5.04	
Total Xylenes*	<0.150	0.150	03/28/2014	ND	6.94	116	6.00	5.30	
Total BTEx	<0.300	0.300	03/28/2014	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/27/2014	ND	416	104	400	3.92		

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	03/27/2014	ND	212	106	200	5.95	
DRO >C10-C28	<10.0	10.0	03/27/2014	ND	200	100	200	1.66	

Surrogate: 1-Chlorooctane 90.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.5 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/25/2014
 Reported: 03/31/2014
 Project Name: FEDERAL 27 #8
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

Sampling Date: 03/16/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 4 @ 1' (H400872-14)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2014	ND	2.61	131	2.00	5.08	
Toluene*	<0.050	0.050	03/28/2014	ND	2.48	124	2.00	5.09	
Ethylbenzene*	<0.050	0.050	03/28/2014	ND	2.42	121	2.00	5.04	
Total Xylenes*	<0.150	0.150	03/28/2014	ND	6.94	116	6.00	5.30	
Total BTEx	<0.300	0.300	03/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13100	16.0	03/27/2014	ND	416	104	400	3.92	

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	03/27/2014	ND	212	106	200	5.95	
DRO >C10-C28	108	10.0	03/27/2014	ND	200	100	200	1.66	

Surrogate: 1-Chlorooctane 91.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.6 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/25/2014
 Reported: 03/31/2014
 Project Name: FEDERAL 27 #8
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

Sampling Date: 03/16/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 4 @ 3' (H400872-15)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2014	ND	2.61	131	2.00	5.08		
Toluene*	<0.050	0.050	03/28/2014	ND	2.48	124	2.00	5.09		
Ethylbenzene*	<0.050	0.050	03/28/2014	ND	2.42	121	2.00	5.04		
Total Xylenes*	<0.150	0.150	03/28/2014	ND	6.94	116	6.00	5.30		
Total BTEx	<0.300	0.300	03/28/2014	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/27/2014	ND	416	104	400	3.92		

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	03/27/2014	ND	212	106	200	5.95	
DRO >C10-C28	<10.0	10.0	03/27/2014	ND	200	100	200	1.66	

Surrogate: 1-Chlorooctane 87.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.9 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/25/2014
 Reported: 03/31/2014
 Project Name: FEDERAL 27 #8
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

Sampling Date: 03/16/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 4 @ 5' (H400872-16)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2014	ND	2.61	131	2.00	5.08		
Toluene*	<0.050	0.050	03/28/2014	ND	2.48	124	2.00	5.09		
Ethylbenzene*	<0.050	0.050	03/28/2014	ND	2.42	121	2.00	5.04		
Total Xylenes*	<0.150	0.150	03/28/2014	ND	6.94	116	6.00	5.30		
Total BTEx	<0.300	0.300	03/28/2014	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/27/2014	ND	416	104	400	3.92		

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	03/27/2014	ND	212	106	200	5.95	
DRO >C10-C28	<10.0	10.0	03/27/2014	ND	200	100	200	1.66	

Surrogate: 1-Chlorooctane 84.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.2 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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

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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A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.		P.O. #:																									
Project Manager: Cliff Brunson		Company:																									
Address: P.O. Box 805		Attn:																									
City: Hobbs		Address:																									
Phone #: 575-397-6388		City:																									
Fax #: 575-397-0397		State:																									
Project #: Federal 27 #8		Zip:																									
Project Location: Lea County, NM		Phone #:																									
Fax #:																											
Sampler Name: Gary Ray																											
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	TPH	BTEX	CI										
H40872	SP3 @ 5'	6	1			✓							3/16/14	11:39 AM	✓	✓	✓										
11	SP3 @ 7'	6	1			✓							3/16/14	12:00 PM	✓	✓	✓										
12	SP3 @ 8'	6	1			✓							3/16/14	12:15 PM	✓	✓	✓										
13	SP4 @ 1'	6	1			✓							3/16/14	1:30 PM	✓	✓	✓										
14	SP4 @ 3'	6	1			✓							3/16/14	1:48 PM	✓	✓	✓										
15	SP4 @ 5'	6	1			✓							3/16/14	2:15 PM	✓	✓	✓										
16																											
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including but not limited to, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of service. In any event, Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																											
Relinquished By:		Date:	3/16/14	Received By:																							
Relinquished By:		Time:	5:00 PM	Received By:																							
Relinquished By:		Date:	7:10	Received By:																							
Relinquished By:		Time:		Received By:																							
Delivered By: (Circle One)		Sample Condition	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	CHECKED BY:																							
Sampler - UPS - Bus - Other:		Cool <input type="checkbox"/> Intact <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	CHECKED BY:																							
1.20		Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	CHECKED BY:																							

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

54

Kathy Purvis

From: Leking, Geoffrey R, EMNRD <GeoffreyR.Leking@state.nm.us>
Sent: Tuesday, July 01, 2014 2:42 PM
To: Cliff P. Brunson
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: OCD Concurrence with Various OXY Remediation Plans

Cliff

The OCD concurs with the :

- 1) OXY-State C Trac 11 Battery-Remediation Plan
- 2) OXY-Fred Turner JR B Battery-Remediation Plan
- 3) OXY-Federal 27 #8-Remediation Plan
- 4) OXY-MLMU #98-Remediation Plan
- 5) OXY-South Mattix Battery-Remediation Plan
- 6) OXY-MLMU Satellite #2-Remediation Plan
- 7) OXY-MLMU #71-Remediation Plan

Approval of the Red Tank 35 Fed #3 Remediation Plan is dependent on your response regarding the excavation depth at SP2 and SP3. Thanks Cliff.

Geoffrey Leking
Environmental Specialist
NMOCD-Hobbs
1625 N. French Drive
Hobbs, NM 88240
Office: (575) 393-6161 Ext. 113
Cell: (575) 399-2990
email: geoffreyr.leting@state.nm.us

From: Cliff P. Brunson [<mailto:cbrunson@bbcinternational.com>]
Sent: Thursday, June 26, 2014 8:30 PM
To: Leking, Geoffrey R, EMNRD
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: OXY-State C Trac 11 Battery-Remediation Plan

Geoff,

This e-mail is to confirm our conversation on June 19, 2014 about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. As discussed, Oxy will excavate to a depth of 4 feet in the area around SP1, 1 foot in the areas of SP2 and SP3, 2 feet in the area of SP4, and 1 foot in the areas of SP5 and SP6 as depicted on the attached site diagram. Then the site will then be backfilled with clean soil.

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

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland St.
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Fax: (575) 397-0397
E-Mail: cbrunson@bbcinternational.com

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Kathy Purvis

From: Cliff P. Brunson <cbrunson@bbcinternational.com>
Sent: Thursday, June 26, 2014 8:21 PM
To: Jennifer Van Curen
Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: OXY-Federal 27 #8-Remediation Plan
Attachments: Remediation Packet, Federal 27 #8.pdf

Jennifer,

This e-mail is to request the BLM's approval for the following remediation plan for the above referenced site. I have attached the materials that pertain to the site and the plan. This plan has already been approved by Geoff Leking of the NMOCD. Oxy will excavate to a depth of 7 feet in the area around SP1, 1 foot in the area around SP2, 3 feet in the area around SP3, and 1 foot in the area around SP4 as depicted on the attached site diagram. Then the site will then be backfilled with clean soil.

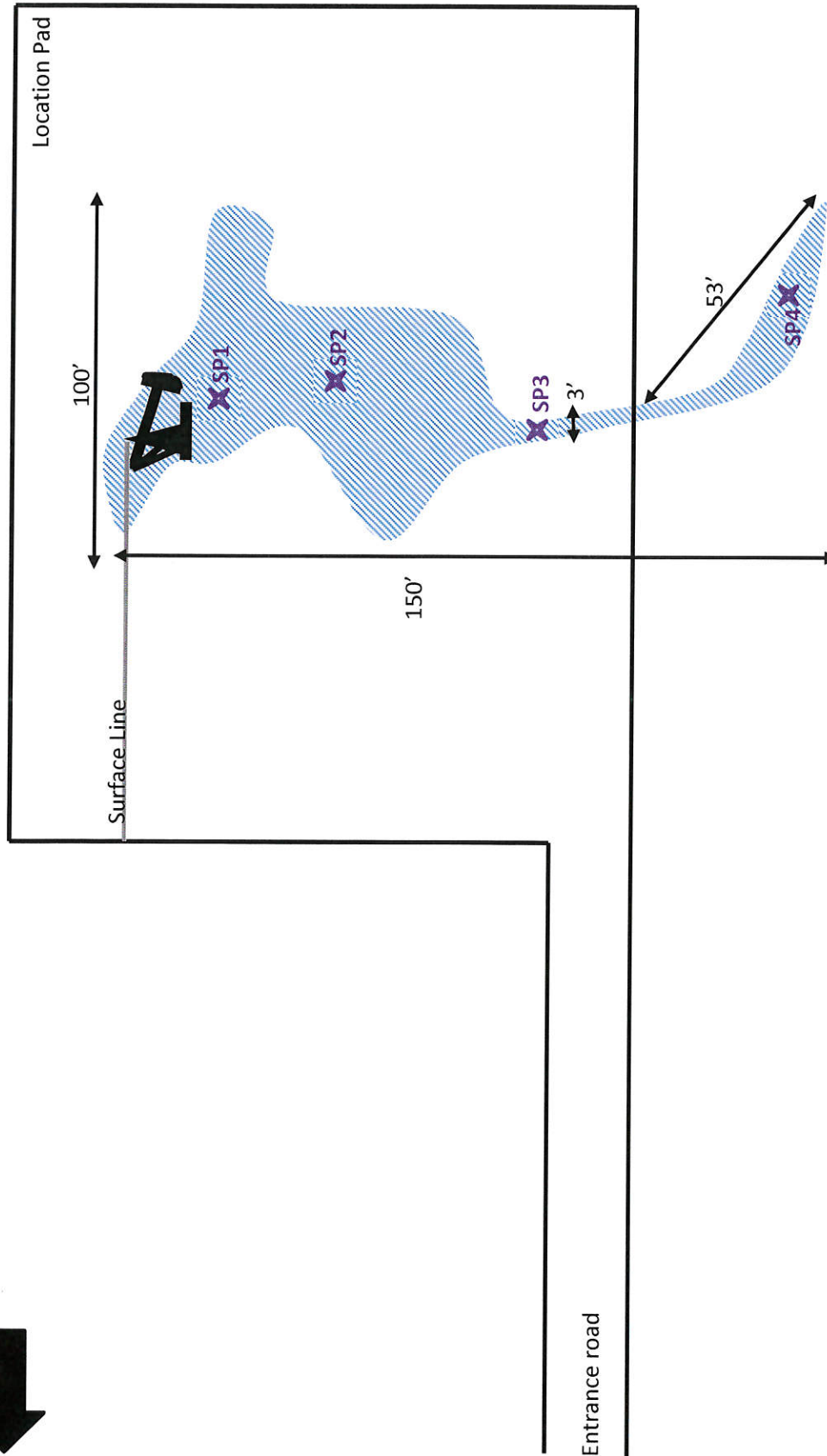
If you would please e-mail your concurrence with this remediation plan, it would be greatly appreciated. If you have any questions, please let us know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
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Fax: (575) 397-0397
E-Mail: cbrunson@bbcinternational.com

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Oxy
Federal 27 #8



U/L M, Section 27, T22S, R32E

580' FSL, 790' FWL

Lea County, NM

GPS at stake: N 32.35703° W 103.66887°

BBC International, Inc.

Oxy

Federal 27 #8

Date: 02/25/2014 DRWG by: K. Purvis

NOT TO SCALE File: Oxy 2014

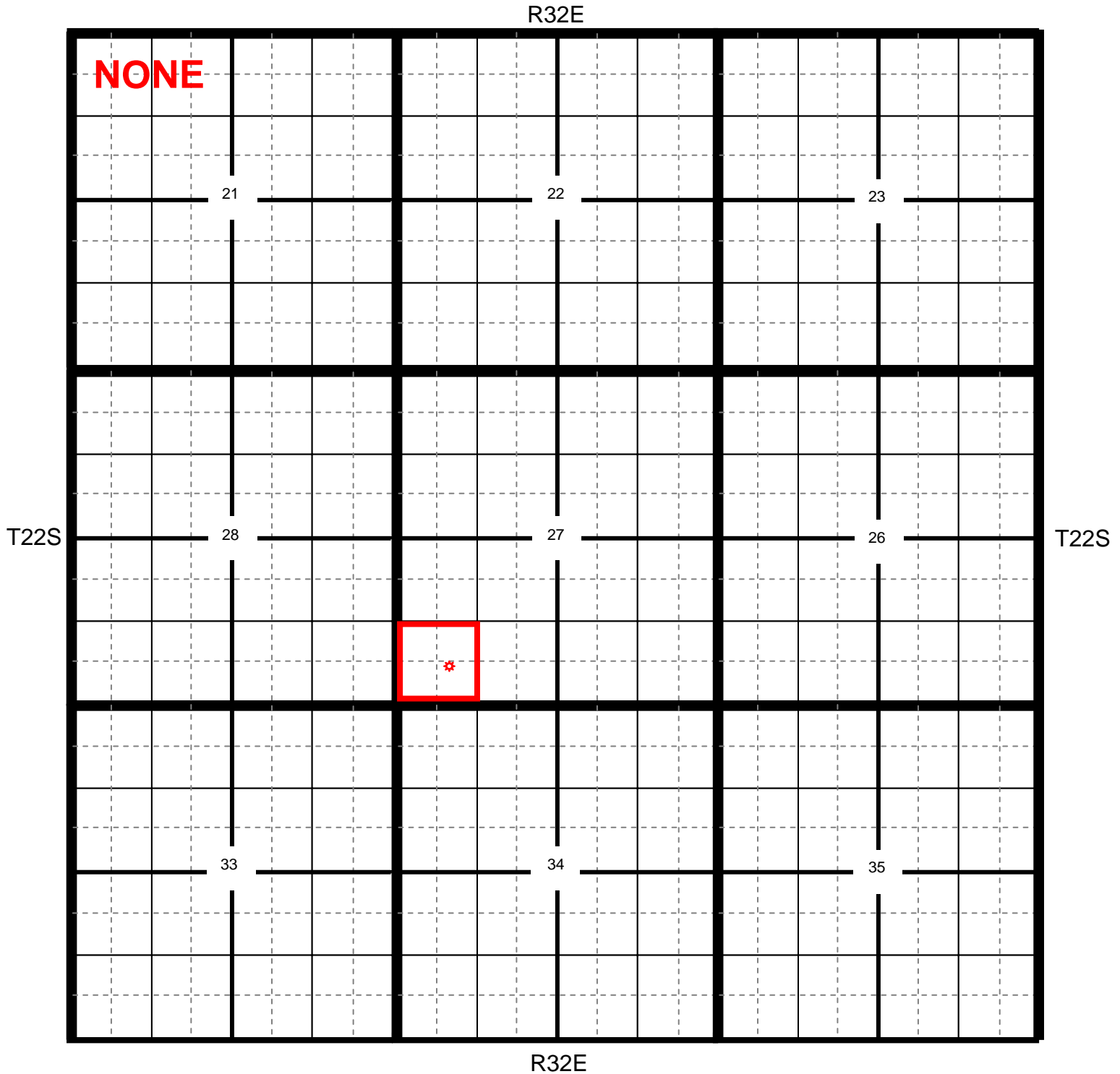


Groundwater Plot

Oxy Federal 27 #8

County
LeaUnit Letter
MSection
27Township
22SRange
32E

Trend Map 400'



* Location

● OCD

● USGS

● SEO

● All Databases



Section Quarters


Oxy Federal 27 #8

County	Unit Letter	Section	Township	Range
Lea	M	27	22S	32E

Trend Map 400'

1

2

NW/NW NONE	NE/NW	NW/NE	NE/NE
Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SW/NW	SE/NW	SW/NE	SE/NE
Unit Letter E	Unit Letter F	Unit Letter G	Unit Letter H
NW/SW	NE/SW	NW/SE	NE/SE
Unit Letter L	Unit Letter K	Unit Letter J	Unit Letter I
SW/SW 	SE/SW	SW/SE	SE/SE
Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P

3

4

 Location
  OCD
  USGS
  SEO
  All Databases

**Laboratory Analytical Results Summary
Federal 27 #8**

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 5'	SP1 @ 7'	SP1 @ 9'
Analyte	Method	Date	3/15/14	3/15/14	3/15/14	3/15/14	3/15/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		<16.0	384	3480	4320	336
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 4'
Analyte	Method	Date	3/15/14	3/15/14	3/15/14
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		1760	416	240
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0

		Sample	SP3 @ 1'	SP3 @ 3'	SP3 @ 5'	SP3 @ 7'	SP3 @ 8'
Analyte	Method	Date	3/16/14	3/16/14	3/16/14	3/16/14	3/16/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		2600	1330	576	128	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0

		Sample	SP4 @ 1'	SP4 @ 3'	SP4 @ 5'
Analyte	Method	Date	3/16/14	3/16/14	3/16/14
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		13100	<16.0	<16.0
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		108	<10.0	<10.0



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

March 31, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: FEDERAL 27 #8

Enclosed are the results of analyses for samples received by the laboratory on 03/25/14 9:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/25/2014
 Reported: 03/31/2014
 Project Name: FEDERAL 27 #8
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

Sampling Date: 03/15/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1' (H400872-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2014	ND	2.44	122	2.00	2.62	
Toluene*	<0.050	0.050	03/28/2014	ND	2.32	116	2.00	2.19	
Ethylbenzene*	<0.050	0.050	03/28/2014	ND	2.26	113	2.00	1.89	
Total Xylenes*	<0.150	0.150	03/28/2014	ND	6.62	110	6.00	1.24	
Total BTX	<0.300	0.300	03/28/2014	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/27/2014	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	03/26/2014	ND	190	94.9	200	2.52	
DRO >C10-C28	<10.0	10.0	03/26/2014	ND	188	93.8	200	2.38	

Surrogate: 1-Chlorooctane 111 % 65.2-140

Surrogate: 1-Chlorooctadecane 114 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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Received: 03/25/2014
 Reported: 03/31/2014
 Project Name: FEDERAL 27 #8
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

Sampling Date: 03/15/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 3' (H400872-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2014	ND	2.44	122	2.00	2.62		
Toluene*	<0.050	0.050	03/28/2014	ND	2.32	116	2.00	2.19		
Ethylbenzene*	<0.050	0.050	03/28/2014	ND	2.26	113	2.00	1.89		
Total Xylenes*	<0.150	0.150	03/28/2014	ND	6.62	110	6.00	1.24		
Total BTEx	<0.300	0.300	03/28/2014	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	03/27/2014	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	03/26/2014	ND	219	110	200	2.07	
DRO >C10-C28	<10.0	10.0	03/26/2014	ND	202	101	200	1.68	

Surrogate: 1-Chlorooctane 99.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.9 % 63.6-154

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Analytical Results For:

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Received: 03/25/2014
 Reported: 03/31/2014
 Project Name: FEDERAL 27 #8
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

Sampling Date: 03/15/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 5' (H400872-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2014	ND	2.44	122	2.00	2.62		
Toluene*	<0.050	0.050	03/28/2014	ND	2.32	116	2.00	2.19		
Ethylbenzene*	<0.050	0.050	03/28/2014	ND	2.26	113	2.00	1.89		
Total Xylenes*	<0.150	0.150	03/28/2014	ND	6.62	110	6.00	1.24		
Total BTEx	<0.300	0.300	03/28/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3480	16.0	03/27/2014	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	03/26/2014	ND	219	110	200	2.07	
DRO >C10-C28	<10.0	10.0	03/26/2014	ND	202	101	200	1.68	

Surrogate: 1-Chlorooctane 76.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.4 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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Received: 03/25/2014
 Reported: 03/31/2014
 Project Name: FEDERAL 27 #8
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

Sampling Date: 03/15/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 7' (H400872-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2014	ND	2.61	131	2.00	5.08	
Toluene*	<0.050	0.050	03/28/2014	ND	2.48	124	2.00	5.09	
Ethylbenzene*	<0.050	0.050	03/28/2014	ND	2.42	121	2.00	5.04	
Total Xylenes*	<0.150	0.150	03/28/2014	ND	6.94	116	6.00	5.30	
Total BTEx	<0.300	0.300	03/28/2014	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4320	16.0	03/27/2014	ND	416	104	400	3.92		

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	03/26/2014	ND	219	110	200	2.07	
DRO >C10-C28	<10.0	10.0	03/26/2014	ND	202	101	200	1.68	

Surrogate: 1-Chlorooctane 74.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 83.9 % 63.6-154

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Received: 03/25/2014
 Reported: 03/31/2014
 Project Name: FEDERAL 27 #8
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

Sampling Date: 03/15/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 9' (H400872-05)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2014	ND	2.61	131	2.00	5.08	
Toluene*	<0.050	0.050	03/28/2014	ND	2.48	124	2.00	5.09	
Ethylbenzene*	<0.050	0.050	03/28/2014	ND	2.42	121	2.00	5.04	
Total Xylenes*	<0.150	0.150	03/28/2014	ND	6.94	116	6.00	5.30	
Total BTEx	<0.300	0.300	03/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	03/27/2014	ND	416	104	400	3.92	

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	03/26/2014	ND	219	110	200	2.07	
DRO >C10-C28	<10.0	10.0	03/26/2014	ND	202	101	200	1.68	

Surrogate: 1-Chlorooctane 87.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.9 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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Received: 03/25/2014
 Reported: 03/31/2014
 Project Name: FEDERAL 27 #8
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

Sampling Date: 03/15/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 1' (H400872-06)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2014	ND	2.61	131	2.00	5.08	
Toluene*	<0.050	0.050	03/28/2014	ND	2.48	124	2.00	5.09	
Ethylbenzene*	<0.050	0.050	03/28/2014	ND	2.42	121	2.00	5.04	
Total Xylenes*	<0.150	0.150	03/28/2014	ND	6.94	116	6.00	5.30	
Total BTEx	<0.300	0.300	03/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1760	16.0	03/27/2014	ND	416	104	400	3.92		

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	03/26/2014	ND	219	110	200	2.07	
DRO >C10-C28	<10.0	10.0	03/26/2014	ND	202	101	200	1.68	

Surrogate: 1-Chlorooctane 87.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.2 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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 P.O. Box 805
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Received: 03/25/2014
 Reported: 03/31/2014
 Project Name: FEDERAL 27 #8
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

Sampling Date: 03/15/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 3' (H400872-07)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2014	ND	2.61	131	2.00	5.08	
Toluene*	<0.050	0.050	03/28/2014	ND	2.48	124	2.00	5.09	
Ethylbenzene*	<0.050	0.050	03/28/2014	ND	2.42	121	2.00	5.04	
Total Xylenes*	<0.150	0.150	03/28/2014	ND	6.94	116	6.00	5.30	
Total BTX	<0.300	0.300	03/28/2014	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	03/27/2014	ND	416	104	400	3.92	

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	03/26/2014	ND	219	110	200	2.07	
DRO >C10-C28	<10.0	10.0	03/26/2014	ND	202	101	200	1.68	

Surrogate: 1-Chlorooctane 89.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.6 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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Received: 03/25/2014
 Reported: 03/31/2014
 Project Name: FEDERAL 27 #8
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

Sampling Date: 03/15/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 4' (H400872-08)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2014	ND	2.61	131	2.00	5.08		
Toluene*	<0.050	0.050	03/28/2014	ND	2.48	124	2.00	5.09		
Ethylbenzene*	<0.050	0.050	03/28/2014	ND	2.42	121	2.00	5.04		
Total Xylenes*	<0.150	0.150	03/28/2014	ND	6.94	116	6.00	5.30		
Total BTEx	<0.300	0.300	03/28/2014	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/27/2014	ND	416	104	400	3.92	

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	03/26/2014	ND	219	110	200	2.07	
DRO >C10-C28	<10.0	10.0	03/26/2014	ND	202	101	200	1.68	

Surrogate: 1-Chlorooctane 85.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.4 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/25/2014
 Reported: 03/31/2014
 Project Name: FEDERAL 27 #8
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

Sampling Date: 03/16/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ 1' (H400872-09)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2014	ND	2.61	131	2.00	5.08	
Toluene*	<0.050	0.050	03/28/2014	ND	2.48	124	2.00	5.09	
Ethylbenzene*	<0.050	0.050	03/28/2014	ND	2.42	121	2.00	5.04	
Total Xylenes*	<0.150	0.150	03/28/2014	ND	6.94	116	6.00	5.30	
Total BTX	<0.300	0.300	03/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2600	16.0	03/27/2014	ND	416	104	400	3.92		

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	03/26/2014	ND	219	110	200	2.07	
DRO >C10-C28	<10.0	10.0	03/26/2014	ND	202	101	200	1.68	

Surrogate: 1-Chlorooctane 90.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.4 % 63.6-154

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Analytical Results For:

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

Received: 03/25/2014
 Reported: 03/31/2014
 Project Name: FEDERAL 27 #8
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

Sampling Date: 03/16/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ 3' (H400872-10)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/28/2014	ND	2.61	131	2.00	5.08		
Toluene*	<0.050	0.050	03/28/2014	ND	2.48	124	2.00	5.09		
Ethylbenzene*	<0.050	0.050	03/28/2014	ND	2.42	121	2.00	5.04		
Total Xylenes*	<0.150	0.150	03/28/2014	ND	6.94	116	6.00	5.30		
Total BTEx	<0.300	0.300	03/28/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1330	16.0	03/27/2014	ND	416	104	400	3.92		

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	03/27/2014	ND	219	110	200	2.07	
DRO >C10-C28	<10.0	10.0	03/27/2014	ND	202	101	200	1.68	

Surrogate: 1-Chlorooctane 76.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.1 % 63.6-154

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Analytical Results For:

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

Received: 03/25/2014
 Reported: 03/31/2014
 Project Name: FEDERAL 27 #8
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

Sampling Date: 03/16/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ 5' (H400872-11)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2014	ND	2.61	131	2.00	5.08	
Toluene*	<0.050	0.050	03/28/2014	ND	2.48	124	2.00	5.09	
Ethylbenzene*	<0.050	0.050	03/28/2014	ND	2.42	121	2.00	5.04	
Total Xylenes*	<0.150	0.150	03/28/2014	ND	6.94	116	6.00	5.30	
Total BTX	<0.300	0.300	03/28/2014	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	03/27/2014	ND	416	104	400	3.92	

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	03/27/2014	ND	219	110	200	2.07	
DRO >C10-C28	<10.0	10.0	03/27/2014	ND	202	101	200	1.68	

Surrogate: 1-Chlorooctane 81.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.1 % 63.6-154

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Analytical Results For:

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 Fax To: (575) 397-0397

Received: 03/25/2014
 Reported: 03/31/2014
 Project Name: FEDERAL 27 #8
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

Sampling Date: 03/16/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ 7' (H400872-12)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2014	ND	2.61	131	2.00	5.08	
Toluene*	<0.050	0.050	03/28/2014	ND	2.48	124	2.00	5.09	
Ethylbenzene*	<0.050	0.050	03/28/2014	ND	2.42	121	2.00	5.04	
Total Xylenes*	<0.150	0.150	03/28/2014	ND	6.94	116	6.00	5.30	
Total BTEx	<0.300	0.300	03/28/2014	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/27/2014	ND	416	104	400	3.92	

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	03/27/2014	ND	212	106	200	5.95	
DRO >C10-C28	<10.0	10.0	03/27/2014	ND	200	100	200	1.66	

Surrogate: 1-Chlorooctane 75.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 83.0 % 63.6-154

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Analytical Results For:

BBC International, Inc.
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 Fax To: (575) 397-0397

Received: 03/25/2014
 Reported: 03/31/2014
 Project Name: FEDERAL 27 #8
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

Sampling Date: 03/16/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 @ 8' (H400872-13)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2014	ND	2.61	131	2.00	5.08	
Toluene*	<0.050	0.050	03/28/2014	ND	2.48	124	2.00	5.09	
Ethylbenzene*	<0.050	0.050	03/28/2014	ND	2.42	121	2.00	5.04	
Total Xylenes*	<0.150	0.150	03/28/2014	ND	6.94	116	6.00	5.30	
Total BTEx	<0.300	0.300	03/28/2014	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/27/2014	ND	416	104	400	3.92		

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	03/27/2014	ND	212	106	200	5.95	
DRO >C10-C28	<10.0	10.0	03/27/2014	ND	200	100	200	1.66	

Surrogate: 1-Chlorooctane 90.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.5 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/25/2014
 Reported: 03/31/2014
 Project Name: FEDERAL 27 #8
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

Sampling Date: 03/16/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 4 @ 1' (H400872-14)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2014	ND	2.61	131	2.00	5.08	
Toluene*	<0.050	0.050	03/28/2014	ND	2.48	124	2.00	5.09	
Ethylbenzene*	<0.050	0.050	03/28/2014	ND	2.42	121	2.00	5.04	
Total Xylenes*	<0.150	0.150	03/28/2014	ND	6.94	116	6.00	5.30	
Total BTX	<0.300	0.300	03/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13100	16.0	03/27/2014	ND	416	104	400	3.92	

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	03/27/2014	ND	212	106	200	5.95	
DRO >C10-C28	108	10.0	03/27/2014	ND	200	100	200	1.66	

Surrogate: 1-Chlorooctane 91.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.6 % 63.6-154

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Analytical Results For:

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

Received: 03/25/2014
 Reported: 03/31/2014
 Project Name: FEDERAL 27 #8
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

Sampling Date: 03/16/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 4 @ 3' (H400872-15)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2014	ND	2.61	131	2.00	5.08	
Toluene*	<0.050	0.050	03/28/2014	ND	2.48	124	2.00	5.09	
Ethylbenzene*	<0.050	0.050	03/28/2014	ND	2.42	121	2.00	5.04	
Total Xylenes*	<0.150	0.150	03/28/2014	ND	6.94	116	6.00	5.30	
Total BTEx	<0.300	0.300	03/28/2014	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/27/2014	ND	416	104	400	3.92		

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	03/27/2014	ND	212	106	200	5.95	
DRO >C10-C28	<10.0	10.0	03/27/2014	ND	200	100	200	1.66	

Surrogate: 1-Chlorooctane 87.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.9 % 63.6-154

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Analytical Results For:

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

Received: 03/25/2014
 Reported: 03/31/2014
 Project Name: FEDERAL 27 #8
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

Sampling Date: 03/16/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 4 @ 5' (H400872-16)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2014	ND	2.61	131	2.00	5.08	
Toluene*	<0.050	0.050	03/28/2014	ND	2.48	124	2.00	5.09	
Ethylbenzene*	<0.050	0.050	03/28/2014	ND	2.42	121	2.00	5.04	
Total Xylenes*	<0.150	0.150	03/28/2014	ND	6.94	116	6.00	5.30	
Total BTEx	<0.300	0.300	03/28/2014	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/27/2014	ND	416	104	400	3.92		

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	03/27/2014	ND	212	106	200	5.95	
DRO >C10-C28	<10.0	10.0	03/27/2014	ND	200	100	200	1.66	

Surrogate: 1-Chlorooctane 84.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.2 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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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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A handwritten signature in black ink, reading "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: Federal 27 #8

Project Location: Lea County, NM

Sampler Name: Gary Ray

P.O. #:

Company:

Attn:

Address:

City:

State: Zip:

Phone #:

Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	TPH	BTEX	CI
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :							
H400872	SP1 @ 1'		1									3/15/14	10:20 AM	✓	✓	✓
	SP1 @ 3'		1									3/15/14	10:42 AM	✓	✓	✓
	SP1 @ 5'		1									3/15/14	11:15 AM	✓	✓	✓
	SP1 @ 7'		1									3/15/14	11:45 AM	✓	✓	✓
	SP1 @ 9'		1									3/15/14	1:10 PM	✓	✓	✓
	SP2 @ 1'		1									3/15/14	1:40 PM	✓	✓	✓
	SP2 @ 3'		1									3/15/14	2:15 PM	✓	✓	✓
	SP2 @ 4'		1									3/15/14	2:30 PM	✓	✓	✓
	SP3 @ 1'		1									3/16/14	10:45 AM	✓	✓	✓
	SP3 @ 3'		1									3/16/14	11:15 AM	✓	✓	✓

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

Relinquished By: *[Signature]* **Received By:** *[Signature]*

Relinquished By: *[Signature]* **Received By:** *[Signature]*

Delivered By: (Circle One) ☒ Cool ☐ Intact

Sample Condition: ☐ Cool ☐ Intact

Sampler - UPS - Bus - Other: ☐ UPS ☐ Bus ☐ Other

CHECKED BY: *[Signature]* **REMARKS:**



ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name: Federal 27 #8

Project Location: Lea County, NM

Sampler Name: Gary Ray

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

Sample Name: Gary Ray		FOR LAB USE ONLY	
Lab I.D.	Sample I.D.		
H40872			
11	SP3 @ 5'	(G)RAB OR (C)OMP.	
12	SP3 @ 7'	# CONTAINERS	
13	SP3 @ 8'	GROUNDWATER	
14	SP4 @ 1'	WASTEWATER	
15	SP4 @ 3'	SOIL	
16	SP4 @ 5'	OIL	
		SLUDGE	
		OTHER :	
		ACID/BASE:	
		ICE / COOL	
		OTHER :	
		DATE	TIME
		3/16/14	11:39 AM
		3/16/14	12:00 PM
		3/16/14	12:15 PM
		3/16/14	1:30 PM
		3/16/14	1:48 PM
		3/16/14	2:15 PM

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including but not limited to, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of service. In any event, Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise, shall not be liable for any damages, including but not limited to, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of service.

Relinquished By:

Date: 3/16/14

Received By:

Relinquished By:

Date: 3/16/14

Received By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

1.20

Sample Condition
Cool ☒ Intact ☒
Yes ☒ No ☐

CHECKED BY: (Initials)

REMARKS:

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #: Add'l Fax #:

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

#54

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 Inc.	Contact	Austin Tramell
Address	1017 W. Stanolind Rd, Hobbs, NM	Telephone No.	(575) 397-8210
Facility Name	Federal 27 #8	Facility Type	Well
Surface Owner	BLM	Mineral Owner	
		Lease No.	30-025-32755

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	27	22S	32E	580'	South	790'	West	Lea

Latitude N 32.35681° Longitude W 103.6680°

NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	15 bbls	Volume Recovered	0 bbls
Source of Release	Stuffing box leak on well head	Date and Hour of Occurrence	02/18/2014	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Goefrey Leking- NMOCD, Jennifer Van Curen- BLM		
By Whom?	Kathy Purvis, BBC International	Date and Hour	02/18/2014 @ 3:20 pm		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

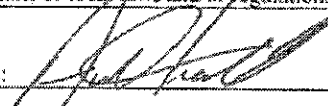
Describe Cause of Problem and Remedial Action Taken.*

The stuffing box on the well head leaked 15 bbls of produced water onto the ground. No fluids were recovered and the stuffing box was repaired.

Describe Area Affected and Cleanup Action Taken.*

The affected area was approximately 20' x 60' on the location pad and 2' x 15' off the location pad. Remediation will be completed in accordance with a plan approved by 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: 	OIL CONSERVATION DIVISION		
Printed Name: Austin Tramell	Approved by District Supervisor:		
Title: HES Coordinator	Approval Date:	Expiration Date:	
E-mail Address: Austin.Tramell@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 2/19/14	Phone: (575) 397-8210		

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 196507

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 196507
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	4/10/2023