

Form C-141

State of New Mexico
Oil Conservation Division

Page 6

Incident ID	NAB1718134992
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Wade Dittrich Title: Environmental Coordinator
 Signature:  Date: 2-4-22
 email: wade_dittrich@oxy.com Telephone: (575) 390-2828

OCD Only

Received by: OCD Date: 2/4/2022

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 9/15/2022
 Printed Name: Ashley Maxwell Title: Environmental Specialist

Closure Report

Site Description

Site Name:	Roo 22 State #8
Company:	Oxy USA Inc.
Legal Description:	U/L C, Section 22, T17S, R28E
County:	Eddy County, NM
GPS Coordinates:	N 32.82593 W-104.16714

Release Data

Date of Release:	5/17/17
Type of Release:	Oil and produced water
Source of Release:	Stuffing box packing
Volume of Release:	1 bbl oil, 9 bbls produced water
Volume Recovered:	5 bbls

Remediation Specifications

Remediation Parameters:	The leak near SP1-SP4 was excavated to a depth of 6 inches. The leak area near SP5 and SP6 was excavated to a depth of 1 foot. The site was backfilled with clean soil.	
Remediation Activities:	06/27/2018 to 06/29/2018	
Plan Sent to OCD:	11/25/2017	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	03/05/2018	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	n/a	n/a
BLM Approval of Plan:	n/a	n/a

Supporting Documentation

Initial C-141	Signed 05/31/2017
Final C-141	Upon completion
Site Diagram	May 2017
Groundwater Plot	50'-75'
TOPO Maps	May 2017
Lab Summary	08/02/2017-08/03/2017
Lab Analysis	08/02/2017-08/03/2017
Correspondence	Request and approval of remediation plan via email

Request for Closure

Based on the completion of the remediation plan, Oxy requests closure approval from NMOCD.

Wade Dittrich, Environmental Specialist

07/31/2018

NM OIL CONSERVATION

ARTESIA DISTRICT

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

JUN 20 2017

Form C-141
Revised April 3, 2017

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

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

RECEIVED

Release Notification and Corrective Action

NAB1718134992

OPERATOR

Initial Report Final Report

Name of Company	OXY USA INC <i>116696</i>	Contact	CASEY L SUMMERS
Address	PO BOX 4294; HOUSTON, TX 77210	Telephone No.	575-513-8289
Facility Name	ROO 22 STATE #8	Facility Type	OIL WEL

Surface Owner	STATE	Mineral Owner	STATE	API No.	30-015-39654
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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
C	22	17S	28E	408	NORTH	1510	WEST	EDDY

Latitude_32.8260384_ Longitude_-104.167244_ NAD83

NATURE OF RELEASE

Type of Release	OIL & PRODUCE WATER	Volume of Release	1 bbl OIL / 9 bbls PW	Volume Recovered	5 bbls
Source of Release	STUFFING BOX PACKING	Date and Hour of Occurrence	05/17/2017	Date and Hour of Discovery	05/22/2017
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; CRYSTAL WEAVER-NMOCD; AMBER GROVES-SLO			
By Whom?	CASEY L SUMMERS	Date and Hour	05/22/2017 @ 8:14 AM		
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 packing blew out in the stuffing box when over pressured, causing a spill of 1 bbl Oil and 9 bbls produce water. The packing was repaired and 5 bbls of free fluid was recovered via vacuum truck.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 20x60 FT on and a small amount off location (measurements are subject to change with future GPS track). Remediation will be completed in accordance with a remediation plan approved by the NMOCD and SLO.

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

Signature:		OIL CONSERVATION DIVISION	
Printed Name:	CASEY L SUMMERS	Approved by Environmental Specialist:	
Title:	ENVIRONMENTAL ADVISOR	Approval Date:	6/29/17
E-mail Address:	casey_summers@oxy.com	Expiration Date:	N/A
Date:	5-31-17	Conditions of Approval:	see attached
Phone:	575-513-8289	Attached:	<input checked="" type="checkbox"/>

* Attach Additional Sheets If Necessary

RRP-4270

Operator/Responsible Party,

The OCD has received the form C-141 you provided on **6/20/17** regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number ARP-4270 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District II office in Artesia on or before 7/20/17. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

Weaver, Crystal, EMNRD

From: Casey_Summers@oxy.com
Sent: Tuesday, June 20, 2017 2:19 PM
To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; agroves@slo.state.nm.us; Jennifer_Smith@oxy.com
Cc: cbrunson@bbcinternational.com; kswinney@bbcinternational.com; kathy@bbcinternational.com; jgilkey@bbcinternational.com
Subject: RE: ROO 22 STATE 0008
Attachments: ROO 22 STATE #8 - INITIAL C141.pdf

I apologize to all!! Somehow this C141 slipped through the cracks and did not get sent.

Please see attached and let me know if you have any questions.

Casey Summers
O: (575)-628-4152
C: (575)-513-8289

From: Summers, Casey L
Sent: Monday, May 22, 2017 7:14 AM
To: 'Bratcher, Mike, EMNRD' <mike.bratcher@state.nm.us>; 'Weaver, Crystal, EMNRD' <Crystal.Weaver@state.nm.us>; agroves@slo.state.nm.us; Smith, Jennifer A <Jennifer_Smith@oxy.com>
Cc: 'Cliff Brunson' <cbrunson@bbcinternational.com>; 'Ken Swinney' <kswinney@bbcinternational.com>; 'Kathy Purvis' <kathy@bbcinternational.com>; 'Jennifer Gilkey' <jgilkey@bbcinternational.com>
Subject: ROO 22 STATE 0008

All,
This is to inform you that Oxy Permian had a release in Eddy County at the ROO 22 STATE 0008 on 5/17/2017.

- **Release Location:** Legal C-22-17S-28E, API: 30-015-39654
- **Release Volume:** 1 bbl of Oil and 9 bbls of Produced Water.
- **Recovered:** 5 bbls of total fluid recovered
- **Cause of Release:** PACKING BLEW OUT OF STUFFING BOX WHEN OVERPRESSURED
- **Approximate Area impacted by release:** 20x60 FT on and a small amount off location (measurements are subject to change with future GPS track)
- **GPS Coordinates and Driving Direction:** 32.8260384,-104.167244, FROM ARTESIA GO EAST ON HWY 82 12 MILES, TURN LEFT ON CR 208 GO 2 MILES AND THE LEAK IS ON LEFT SIDE OF ROAD

Please let me know if you have any questions.

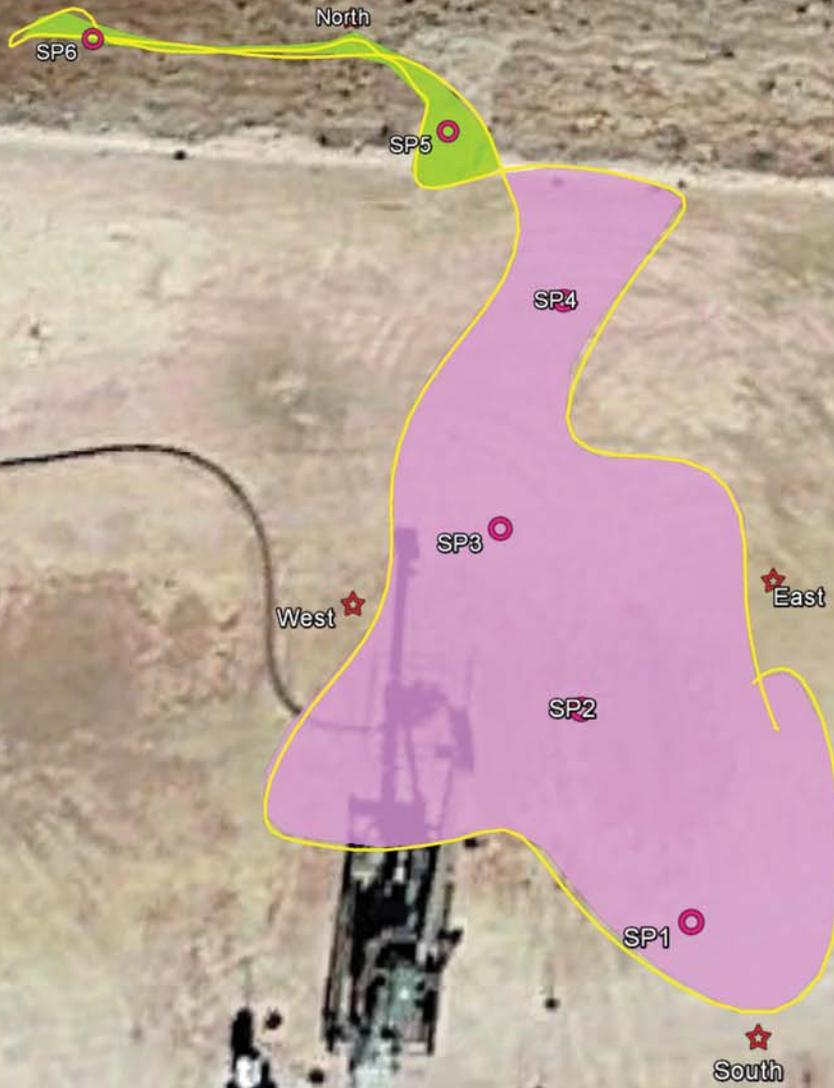
Casey Summers
O: (575)-628-4152
C: (575)-513-8289

Oxy, Roo 22 State #008

Leak date: 05/17/2017
Eddy County, NM
API# 30-015-39654
2RP-4270

Legend

- 1 ft Excavation
- 6 inch Excavation
- Cardinal sample points
- Sample points
- Leak area



Google Earth

© 2017 Google

70 ft



Oxy, Roo 22 State #008H

Sample points, hand auger

SP1, N 32.82595 W-104.16712

SP2, N 32.82602 W-104.16717

SP3, N 32.82608 W-104.16720

SP4, N 32.82617 W-104.16718

SP5, N 32.82624 W-104.16724

SP6, N 32.82628 W-104.16740

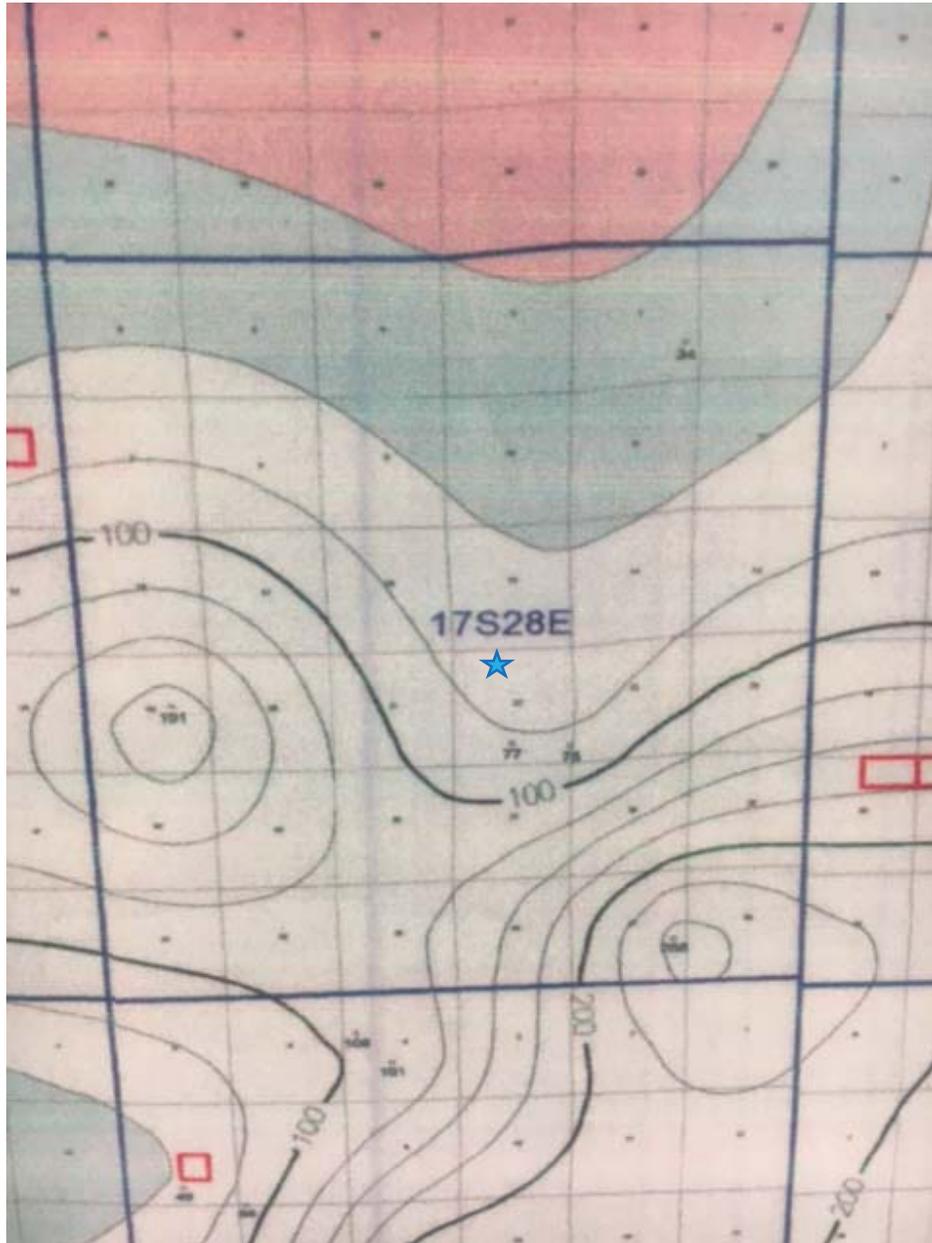
NORTH, N 32.82629 W-104.16728

SOUTH, N 32.82591 W-104.16710

EAST, N 32.82606 W-104.16709

WEST, N 32.82606 W-104.16726

Oxy, Roo 22 State #008
U/L C, Section 22, T17S, R28E
Groundwater: 50'-75'





New Mexico Office of the State Engineer Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 578081

Northing (Y): 3632232

Radius: 1700

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

5/31/17 2:56 PM

WATER COLUMN/ AVERAGE
DEPTH TO WATER

Public Land Survey System (PLSS)

Q64: Q16: Q4: Sec: Tws: Rng:

State Plane Coordinate System - NAD27

X: ft Y: ft Zone:

State Plane Coordinate System - NAD83

X: ft Y: ft Zone:

Degrees/Minutes/Seconds

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

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

UTM - NAD27

Easting (X): mtrs Northing (Y): mtrs Zone:

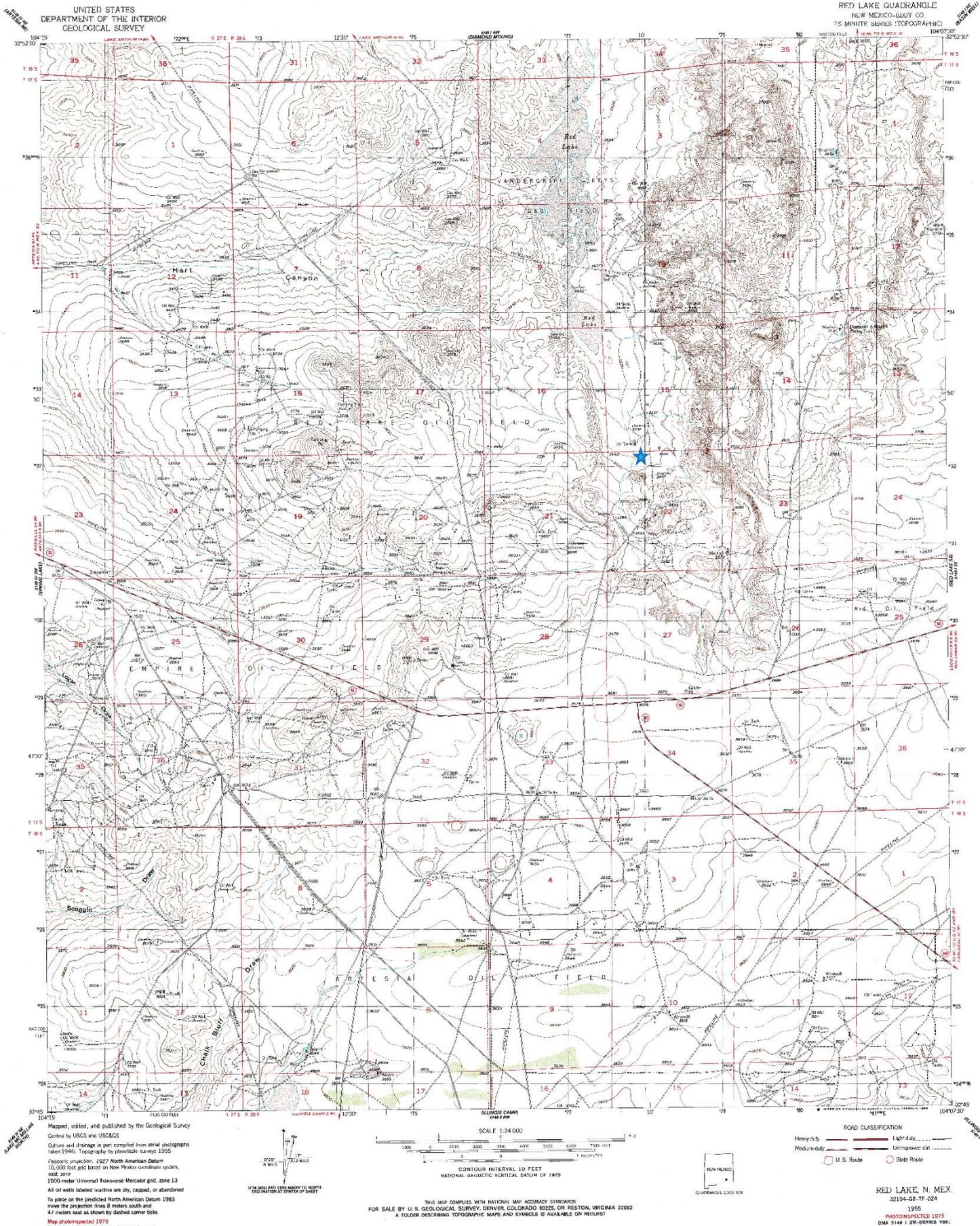
SUBMIT

All Conversion Results are displayed as **NAD 1983 UTM Zone 13**

Easting (X): mtrs Northing (Y): mtrs

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

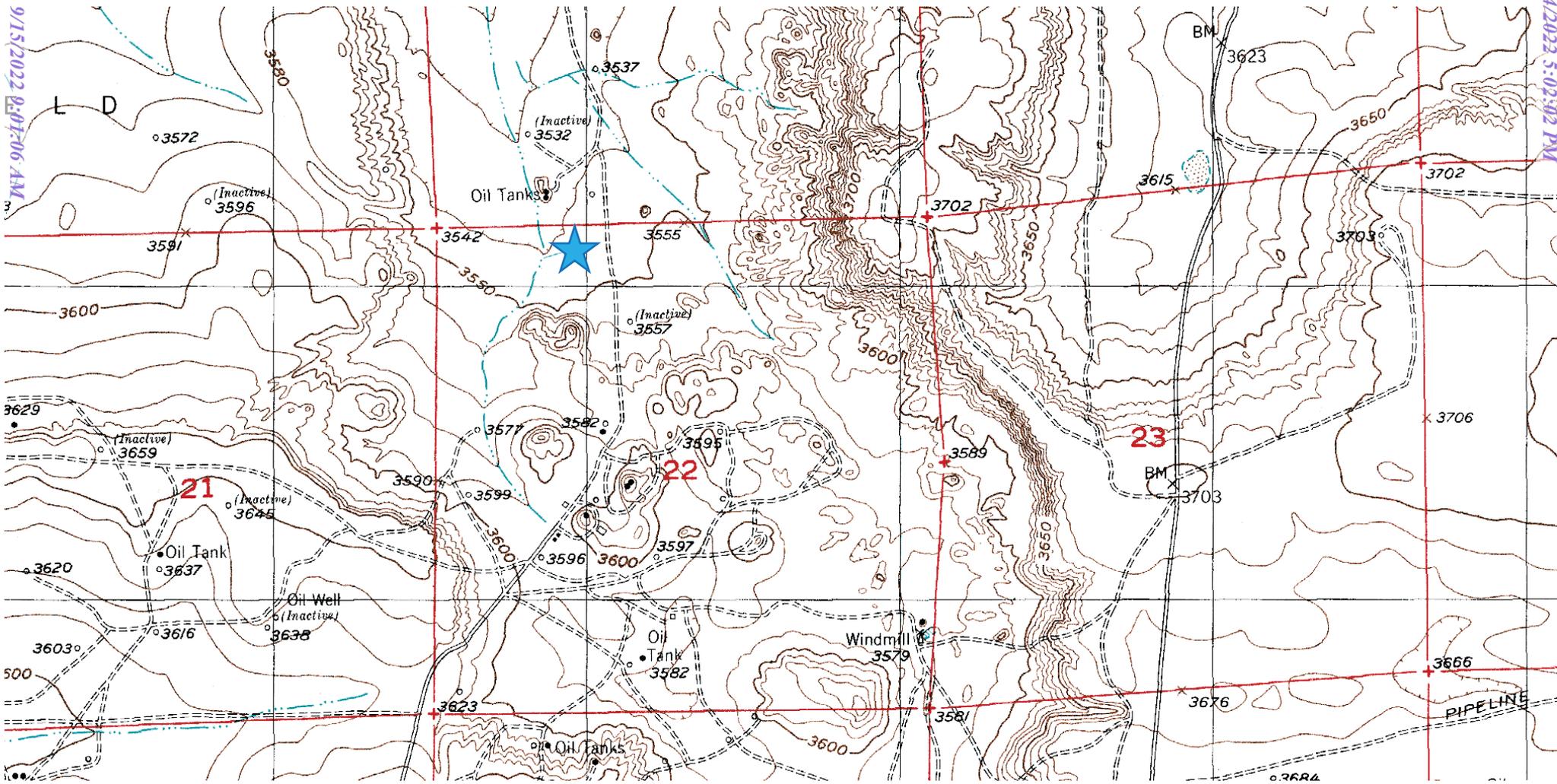
Oxy, Roo 22 State #008



Oxy, Roo 22 State #008

Released to Imaging: 9/15/2022 8:01:06 AM

Received by OCD: 2/4/2023 5:02:42 PM



Laboratory Analytical Results Summary
 Roo 22 State #008

Analyte	Method	Sample Date	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'	SP1 @ 7'	SP1 @ 12'
			8/2/17	8/2/17	8/2/17	8/2/17	8/2/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		432	336	160	32	64
GRO	TPH 8015M		<50.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		4390	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		1280	<10.0	n/a	n/a	n/a

Analyte	Method	Sample Date	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'	SP2 @ 7'	SP2 @ 12'
			8/2/17	8/2/17	8/2/17	8/2/17	8/2/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		544	272	128	32	112
GRO	TPH 8015M		<50.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		4600	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		1480	16.7	n/a	n/a	n/a

Analyte	Method	Sample Date	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'	SP3 @ 7'	SP3 @ 12'
			8/2/17	8/2/17	8/2/17	8/2/17	8/2/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		480	272	192	32	64
GRO	TPH 8015M		<50.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		3430	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		1020	10.7	n/a	n/a	n/a

Analyte	Method	Sample Date	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 2'	SP4 @ 7'	SP4 @ 12'
			8/2/17	8/2/17	8/2/17	8/2/17	8/2/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	n/a	n/a
Chloride	SM4500Cl-B		464	272	144	32	64
GRO	TPH 8015M		<50.0	<10.0	n/a	n/a	n/a
DRO	TPH 8015M		4770	<10.0	n/a	n/a	n/a
EXT DRO	TPH 8015M		1480	14.2	n/a	n/a	n/a

Analyte	Method	Sample Date	SP5 @ SURFACE	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'	SP5 @ 8'	SP5 @ 13'
			8/3/17	8/3/17	8/3/17	8/3/17	8/3/17	8/3/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.079	<0.050	<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		0.612	0.076	<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		1.01	0.152	<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		4.62	0.468	<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		6.32	0.697	<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		48	32	32	32	<16.0	<16.0
GRO	TPH 8015M		119	23.9	<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		9500	604	38.5	<10.0	n/a	n/a
EXT DRO	TPH 8015M		2490	134	<10.0	<10.0	n/a	n/a

Analyte	Method	Sample Date	SP6 @ SURFACE	SP6 @ 1'	SP6 @ 2'	SP6 @ 3'	SP6 @ 8'	SP6 @ 13'
			8/3/17	8/3/17	8/3/17	8/3/17	8/3/17	8/3/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		0.079	<0.050	<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		0.747	<0.050	<0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		0.875	0.066	<0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		4.19	<0.150	<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		5.89	<0.300	<0.300	<0.300	n/a	n/a
Chloride	SM4500Cl-B		64	32	32	32	16	<16.0
GRO	TPH 8015M		158	12.3	<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		13500	421	13.8	<10.0	n/a	n/a
EXT DRO	TPH 8015M		3730	113	<10.0	<10.0	n/a	n/a

Analyte	Method	Sample Date	NORTH @ SURFACE
			8/3/17
			mg/Kg
Chloride	SM4500Cl-B		48

Analyte	Method	Sample Date	SOUTH @ SURFACE
			8/3/17
			mg/Kg
Chloride	SM4500Cl-B		112

Analyte	Method	Sample Date	EAST @ SURFACE
			8/3/17
			mg/Kg
Chloride	SM4500Cl-B		192

Analyte	Method	Sample Date	WEST @ SURFACE
			8/3/17
			mg/Kg
Chloride	SM4500Cl-B		112



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

August 17, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: ROO 22 STATE #008

Enclosed are the results of analyses for samples received by the laboratory on 08/10/17 10:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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:	08/10/2017	Sampling Date:	08/02/2017
Reported:	08/17/2017	Sampling Type:	Soil
Project Name:	ROO 22 STATE #008	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP1 @ SURFACE (H702103-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/11/2017	ND	2.06	103	2.00	1.69	
Toluene*	<0.050	0.050	08/11/2017	ND	1.89	94.7	2.00	1.24	
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.97	98.7	2.00	0.866	
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.87	97.9	6.00	0.735	
Total BTEX	<0.300	0.300	08/11/2017	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	08/10/2017	ND	480	120	400	14.3	

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	08/11/2017	ND	202	101	200	7.53		
DRO >C10-C28	4390	50.0	08/11/2017	ND	206	103	200	7.61		
EXT DRO >C28-C36	1280	50.0	08/11/2017	ND						

Surrogate: 1-Chlorooctane 90.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 184 % 34.7-157

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* = Accredited Analyte

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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:	08/10/2017	Sampling Date:	08/02/2017
Reported:	08/17/2017	Sampling Type:	Soil
Project Name:	ROO 22 STATE #008	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP1 @ 1' (H702103-02)

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	08/11/2017	ND	2.06	103	2.00	1.69	
Toluene*	<0.050	0.050	08/11/2017	ND	1.89	94.7	2.00	1.24	
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.97	98.7	2.00	0.866	
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.87	97.9	6.00	0.735	
Total BTEX	<0.300	0.300	08/11/2017	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	08/10/2017	ND	480	120	400	14.3	

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	08/16/2017	ND	202	101	200	7.53	
DRO >C10-C28	<10.0	10.0	08/16/2017	ND	206	103	200	7.61	
EXT DRO >C28-C36	<10.0	10.0	08/16/2017	ND					

Surrogate: 1-Chlorooctane 90.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 91.9 % 34.7-157

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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:	08/10/2017	Sampling Date:	08/02/2017
Reported:	08/17/2017	Sampling Type:	Soil
Project Name:	ROO 22 STATE #008	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP1 @ 2' (H702103-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/10/2017	ND	480	120	400	14.3	

Sample ID: SP1 @ 7' (H702103-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/10/2017	ND	480	120	400	14.3	

Sample ID: SP1 @ 12' (H702103-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/10/2017	ND	480	120	400	14.3	

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Analytical Results For:

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

Received:	08/10/2017	Sampling Date:	08/02/2017
Reported:	08/17/2017	Sampling Type:	Soil
Project Name:	ROO 22 STATE #008	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP2 @ SURFACE (H702103-06)

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	08/11/2017	ND	2.06	103	2.00	1.69	
Toluene*	<0.050	0.050	08/11/2017	ND	1.89	94.7	2.00	1.24	
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.97	98.7	2.00	0.866	
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.87	97.9	6.00	0.735	
Total BTEX	<0.300	0.300	08/11/2017	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	08/11/2017	ND	416	104	400	3.92	

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	08/11/2017	ND	202	101	200	7.53		
DRO >C10-C28	4600	50.0	08/11/2017	ND	206	103	200	7.61		
EXT DRO >C28-C36	1480	50.0	08/11/2017	ND						

Surrogate: 1-Chlorooctane 90.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 200 % 34.7-157

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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:	08/10/2017	Sampling Date:	08/02/2017
Reported:	08/17/2017	Sampling Type:	Soil
Project Name:	ROO 22 STATE #008	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP2 @ 1' (H702103-07)

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	08/11/2017	ND	2.06	103	2.00	1.69	
Toluene*	<0.050	0.050	08/11/2017	ND	1.89	94.7	2.00	1.24	
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.97	98.7	2.00	0.866	
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.87	97.9	6.00	0.735	
Total BTEX	<0.300	0.300	08/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/11/2017	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	08/11/2017	ND	202	101	200	7.53	
DRO >C10-C28	<10.0	10.0	08/11/2017	ND	206	103	200	7.61	
EXT DRO >C28-C36	16.7	10.0	08/11/2017	ND					

Surrogate: 1-Chlorooctane 91.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 97.5 % 34.7-157

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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:	08/10/2017	Sampling Date:	08/02/2017
Reported:	08/17/2017	Sampling Type:	Soil
Project Name:	ROO 22 STATE #008	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP2 @ 2' (H702103-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/11/2017	ND	416	104	400	3.92	

Sample ID: SP2 @ 7' (H702103-09)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/11/2017	ND	416	104	400	3.92	

Sample ID: SP2 @ 12' (H702103-10)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/12/2017	ND	416	104	400	3.92	

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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:	08/10/2017	Sampling Date:	08/02/2017
Reported:	08/17/2017	Sampling Type:	Soil
Project Name:	ROO 22 STATE #008	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP3 @ SURFACE (H702103-11)

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	08/11/2017	ND	2.06	103	2.00	1.69	
Toluene*	<0.050	0.050	08/11/2017	ND	1.89	94.7	2.00	1.24	
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.97	98.7	2.00	0.866	
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.87	97.9	6.00	0.735	
Total BTEX	<0.300	0.300	08/11/2017	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	08/12/2017	ND	416	104	400	3.92	

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	08/11/2017	ND	202	101	200	7.53		
DRO >C10-C28	3430	50.0	08/11/2017	ND	206	103	200	7.61		
EXT DRO >C28-C36	1020	50.0	08/11/2017	ND						

Surrogate: 1-Chlorooctane 91.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 170 % 34.7-157

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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:	08/10/2017	Sampling Date:	08/02/2017
Reported:	08/17/2017	Sampling Type:	Soil
Project Name:	ROO 22 STATE #008	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP3 @ 1' (H702103-12)

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	08/11/2017	ND	2.06	103	2.00	1.69	
Toluene*	<0.050	0.050	08/11/2017	ND	1.89	94.7	2.00	1.24	
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.97	98.7	2.00	0.866	
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.87	97.9	6.00	0.735	
Total BTEX	<0.300	0.300	08/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/12/2017	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	08/11/2017	ND	202	101	200	7.53	
DRO >C10-C28	<10.0	10.0	08/11/2017	ND	206	103	200	7.61	
EXT DRO >C28-C36	10.7	10.0	08/11/2017	ND					

Surrogate: 1-Chlorooctane 92.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 91.2 % 34.7-157

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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:	08/10/2017	Sampling Date:	08/02/2017
Reported:	08/17/2017	Sampling Type:	Soil
Project Name:	ROO 22 STATE #008	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP3 @ 2' (H702103-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/12/2017	ND	416	104	400	3.92	

Sample ID: SP3 @ 7' (H702103-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/12/2017	ND	416	104	400	3.92	

Sample ID: SP3 @ 12' (H702103-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/12/2017	ND	416	104	400	3.92	

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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:	08/10/2017	Sampling Date:	08/02/2017
Reported:	08/17/2017	Sampling Type:	Soil
Project Name:	ROO 22 STATE #008	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP4 @ SURFACE (H702103-16)

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	08/11/2017	ND	2.06	103	2.00	1.69	
Toluene*	<0.050	0.050	08/11/2017	ND	1.89	94.7	2.00	1.24	
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.97	98.7	2.00	0.866	
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.87	97.9	6.00	0.735	
Total BTEX	<0.300	0.300	08/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	08/12/2017	ND	416	104	400	3.92	

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	08/11/2017	ND	202	101	200	7.53		
DRO >C10-C28	4770	50.0	08/11/2017	ND	206	103	200	7.61		
EXT DRO >C28-C36	1480	50.0	08/11/2017	ND						

Surrogate: 1-Chlorooctane 107 % 28.3-164

Surrogate: 1-Chlorooctadecane 204 % 34.7-157

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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:	08/10/2017	Sampling Date:	08/02/2017
Reported:	08/17/2017	Sampling Type:	Soil
Project Name:	ROO 22 STATE #008	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP4 @ 1' (H702103-17)

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	08/11/2017	ND	2.06	103	2.00	1.69	
Toluene*	<0.050	0.050	08/11/2017	ND	1.89	94.7	2.00	1.24	
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.97	98.7	2.00	0.866	
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.87	97.9	6.00	0.735	
Total BTEX	<0.300	0.300	08/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/12/2017	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	08/11/2017	ND	202	101	200	7.53	
DRO >C10-C28	<10.0	10.0	08/11/2017	ND	206	103	200	7.61	
EXT DRO >C28-C36	14.2	10.0	08/11/2017	ND					

Surrogate: 1-Chlorooctane 101 % 28.3-164

Surrogate: 1-Chlorooctadecane 104 % 34.7-157

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Received:	08/10/2017	Sampling Date:	08/02/2017
Reported:	08/17/2017	Sampling Type:	Soil
Project Name:	ROO 22 STATE #008	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP4 @ 2' (H702103-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/12/2017	ND	416	104	400	3.92	

Sample ID: SP4 @ 7' (H702103-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/12/2017	ND	416	104	400	3.92	

Sample ID: SP4 @ 12' (H702103-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/12/2017	ND	416	104	400	3.92	

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Received:	08/10/2017	Sampling Date:	08/03/2017
Reported:	08/17/2017	Sampling Type:	Soil
Project Name:	ROO 22 STATE #008	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP5 @ SURFACE (H702103-21)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.079	0.050	08/11/2017	ND	2.06	103	2.00	1.69	
Toluene*	0.612	0.050	08/11/2017	ND	1.89	94.7	2.00	1.24	
Ethylbenzene*	1.01	0.050	08/11/2017	ND	1.97	98.7	2.00	0.866	
Total Xylenes*	4.62	0.150	08/11/2017	ND	5.87	97.9	6.00	0.735	
Total BTEX	6.32	0.300	08/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 132 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/12/2017	ND	416	104	400	3.92	

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	119	50.0	08/11/2017	ND	202	101	200	7.53		
DRO >C10-C28	9500	50.0	08/11/2017	ND	206	103	200	7.61		
EXT DRO >C28-C36	2490	50.0	08/11/2017	ND						

Surrogate: 1-Chlorooctane 113 % 28.3-164

Surrogate: 1-Chlorooctadecane 372 % 34.7-157

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Received:	08/10/2017	Sampling Date:	08/03/2017
Reported:	08/17/2017	Sampling Type:	Soil
Project Name:	ROO 22 STATE #008	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP5 @ 1' (H702103-22)

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	08/11/2017	ND	2.06	103	2.00	1.69	
Toluene*	0.076	0.050	08/11/2017	ND	1.89	94.7	2.00	1.24	
Ethylbenzene*	0.152	0.050	08/11/2017	ND	1.97	98.7	2.00	0.866	
Total Xylenes*	0.468	0.150	08/11/2017	ND	5.87	97.9	6.00	0.735	
Total BTEX	0.697	0.300	08/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/12/2017	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	23.9	10.0	08/11/2017	ND	202	101	200	7.53	
DRO >C10-C28	604	10.0	08/11/2017	ND	206	103	200	7.61	
EXT DRO >C28-C36	134	10.0	08/11/2017	ND					

Surrogate: 1-Chlorooctane 98.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 103 % 34.7-157

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Fax To: (575) 397-0397

Received:	08/10/2017	Sampling Date:	08/03/2017
Reported:	08/17/2017	Sampling Type:	Soil
Project Name:	ROO 22 STATE #008	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP5 @ 2' (H702103-23)

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	08/11/2017	ND	2.06	103	2.00	1.69	
Toluene*	<0.050	0.050	08/11/2017	ND	1.89	94.7	2.00	1.24	
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.97	98.7	2.00	0.866	
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.87	97.9	6.00	0.735	
Total BTEX	<0.300	0.300	08/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/12/2017	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	08/11/2017	ND	203	102	200	0.693	
DRO >C10-C28	38.5	10.0	08/11/2017	ND	202	101	200	1.29	
EXT DRO >C28-C36	<10.0	10.0	08/11/2017	ND					

Surrogate: 1-Chlorooctane 95.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 96.9 % 34.7-157

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 Fax To: (575) 397-0397

Received:	08/10/2017	Sampling Date:	08/03/2017
Reported:	08/17/2017	Sampling Type:	Soil
Project Name:	ROO 22 STATE #008	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP5 @ 3' (H702103-24)

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	08/11/2017	ND	2.06	103	2.00	1.69	
Toluene*	<0.050	0.050	08/11/2017	ND	1.89	94.7	2.00	1.24	
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.97	98.7	2.00	0.866	
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.87	97.9	6.00	0.735	
Total BTEX	<0.300	0.300	08/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/12/2017	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	08/11/2017	ND	203	102	200	0.693	
DRO >C10-C28	<10.0	10.0	08/11/2017	ND	202	101	200	1.29	
EXT DRO >C28-C36	<10.0	10.0	08/11/2017	ND					

Surrogate: 1-Chlorooctane 79.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 86.6 % 34.7-157

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Analytical Results For:

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

Received:	08/10/2017	Sampling Date:	08/03/2017
Reported:	08/17/2017	Sampling Type:	Soil
Project Name:	ROO 22 STATE #008	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP5 @ 8' (H702103-25)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/12/2017	ND	416	104	400	3.92	

Sample ID: SP5 @ 13' (H702103-26)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/14/2017	ND	400	100	400	3.92	

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Analytical Results For:

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Received:	08/10/2017	Sampling Date:	08/03/2017
Reported:	08/17/2017	Sampling Type:	Soil
Project Name:	ROO 22 STATE #008	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP6 @ SURFACE (H702103-27)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.079	0.050	08/11/2017	ND	2.06	103	2.00	1.69	
Toluene*	0.747	0.050	08/11/2017	ND	1.89	94.7	2.00	1.24	
Ethylbenzene*	0.875	0.050	08/11/2017	ND	1.97	98.7	2.00	0.866	
Total Xylenes*	4.19	0.150	08/11/2017	ND	5.87	97.9	6.00	0.735	
Total BTEX	5.89	0.300	08/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/14/2017	ND	400	100	400	3.92	

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	158	50.0	08/11/2017	ND	203	102	200	0.693		
DRO >C10-C28	13500	50.0	08/11/2017	ND	202	101	200	1.29		
EXT DRO >C28-C36	3730	50.0	08/11/2017	ND						

Surrogate: 1-Chlorooctane 97.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 587 % 34.7-157

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Received:	08/10/2017	Sampling Date:	08/03/2017
Reported:	08/17/2017	Sampling Type:	Soil
Project Name:	ROO 22 STATE #008	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP6 @ 1' (H702103-28)

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	08/11/2017	ND	2.06	103	2.00	1.69	
Toluene*	<0.050	0.050	08/11/2017	ND	1.89	94.7	2.00	1.24	
Ethylbenzene*	0.066	0.050	08/11/2017	ND	1.97	98.7	2.00	0.866	
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.87	97.9	6.00	0.735	
Total BTEX	<0.300	0.300	08/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/14/2017	ND	400	100	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	12.3	10.0	08/11/2017	ND	203	102	200	0.693	
DRO >C10-C28	421	10.0	08/11/2017	ND	202	101	200	1.29	
EXT DRO >C28-C36	113	10.0	08/11/2017	ND					

Surrogate: 1-Chlorooctane 88.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 92.2 % 34.7-157

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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:	08/10/2017	Sampling Date:	08/03/2017
Reported:	08/17/2017	Sampling Type:	Soil
Project Name:	ROO 22 STATE #008	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP6 @ 2' (H702103-29)

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	08/11/2017	ND	2.06	103	2.00	1.69	
Toluene*	<0.050	0.050	08/11/2017	ND	1.89	94.7	2.00	1.24	
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.97	98.7	2.00	0.866	
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.87	97.9	6.00	0.735	
Total BTEX	<0.300	0.300	08/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/14/2017	ND	400	100	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	08/11/2017	ND	203	102	200	0.693	
DRO >C10-C28	13.8	10.0	08/11/2017	ND	202	101	200	1.29	
EXT DRO >C28-C36	<10.0	10.0	08/11/2017	ND					

Surrogate: 1-Chlorooctane 89.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 87.4 % 34.7-157

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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: 08/10/2017
Reported: 08/17/2017
Project Name: ROO 22 STATE #008
Project Number: NONE GIVEN
Project Location: OXY- EDDY CO NM

Sampling Date: 08/03/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP6 @ 3' (H702103-30)

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	08/11/2017	ND	2.06	103	2.00	1.69	
Toluene*	<0.050	0.050	08/11/2017	ND	1.89	94.7	2.00	1.24	
Ethylbenzene*	<0.050	0.050	08/11/2017	ND	1.97	98.7	2.00	0.866	
Total Xylenes*	<0.150	0.150	08/11/2017	ND	5.87	97.9	6.00	0.735	
Total BTEX	<0.300	0.300	08/11/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/14/2017	ND	400	100	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	08/11/2017	ND	203	102	200	0.693	
DRO >C10-C28	<10.0	10.0	08/11/2017	ND	202	101	200	1.29	
EXT DRO >C28-C36	<10.0	10.0	08/11/2017	ND					

Surrogate: 1-Chlorooctane 90.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 93.2 % 34.7-157

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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:	08/10/2017	Sampling Date:	08/03/2017
Reported:	08/17/2017	Sampling Type:	Soil
Project Name:	ROO 22 STATE #008	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: SP6 @ 8' (H702103-31)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/14/2017	ND	400	100	400	3.92	

Sample ID: SP6 @ 13' (H702103-32)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/14/2017	ND	400	100	400	3.92	

Sample ID: NORTH (H702103-33)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/14/2017	ND	400	100	400	3.92	

Sample ID: SOUTH (H702103-34)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/14/2017	ND	400	100	400	3.92	

Sample ID: EAST (H702103-35)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/14/2017	ND	400	100	400	3.92	

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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:	08/10/2017	Sampling Date:	08/03/2017
Reported:	08/17/2017	Sampling Type:	Soil
Project Name:	ROO 22 STATE #008	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	OXY- EDDY CO NM		

Sample ID: WEST (H702103-36)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/14/2017	ND	400	100	400	3.92	

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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- 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

Celey D. Keene, Lab Director/Quality Manager



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

BILL TO

Company Name: BBC International, Inc.
 Project Manager: Cliff Brunson
 Address: P.O. Box 805
 City: Hobbs State: NM Zip: 88241
 Phone #: 575-397-6388 Fax #: 575-397-0397
 Project #:
 Project Name: 20022 ST# 008
 Project Location: Eddy County NM
 Sampler Name: Roger Hernandez

P.O. #:
 Company: OKY
 Attn: S. Hrick
 Address:
 City:
 State: Zip:
 Phone #:
 Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	CI	BTEX	TPH EXT
H102103	SP @ Surface ✓	G	1			✓							8/9/17	11:50	✓	✓	✓
	SP @ Surface ✓	G	1			✓								12:20	✓	✓	✓
	SP @ F ✓	G	1			✓								12:40	✓	✓	✓
	SP @ F ✓	G	1			✓								12:58	✓	✓	✓
	SP @ Surface ✓	G	1			✓								1:15	✓	✓	✓
	SP @ Surface ✓	G	1			✓								1:37	✓	✓	✓
	SP @ F ✓	G	1			✓								1:46	✓	✓	✓
	SP @ F ✓	G	1			✓								1:59	✓	✓	✓
	SP @ F ✓	G	1			✓								2:08	✓	✓	✓

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Relinquished By: [Signature] Date: 8/3/17
 Relinquished By: [Signature] Date: 8/16/17
 Delivered By: (Circle One) #75
 Sampler - UPS - Bus - Other: #75
 Sample Condition: Cool Intact Yes [X] No []
 CHECKED BY: [Signature]

Received By: [Signature] Date: 8/3/17
 Received By: [Signature] Date: 8/16/17
 Phone Result: Yes [] No []
 Add'l Phone #: _____
 Add'l Fax #: _____

Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476
 2.02
 [Signature]



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

208

Company Name: BBC International, Inc. **BILL TO** ANALYSIS REQUEST

Project Manager: Cliff Brunson P.O. #:

Address: P.O. Box 805 City: Hobbs State: NM Zip: 88241 Company: *OKJ*

Phone #: 575-397-6388 Fax #: 575-397-0397 Attn: *SINACH*

Project #: Project Owner: *OKJ* Address:

Project Name: *R0022 ST #008* City: State: Zip:

Project Location: *Edley County, NM* Phone #: Fax #:

Sampler Name: *Robert Lemmon* FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	CI	BTEX	TPH EXT
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
<i>H102013</i>														
	<i>SP30 Surface</i>	<i>✓</i>	<i>6</i>			<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>8/17</i>	<i>2:00</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>
	<i>SP30</i>	<i>✓</i>	<i>6</i>			<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>8/17</i>	<i>2:30</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>
	<i>SP30</i>	<i>✓</i>	<i>6</i>			<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>8/17</i>	<i>2:31</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>
	<i>SP30</i>	<i>✓</i>	<i>6</i>			<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>8/17</i>	<i>2:39</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>
	<i>SP30</i>	<i>✓</i>	<i>6</i>			<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>8/17</i>	<i>2:46</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>
	<i>SP30</i>	<i>✓</i>	<i>6</i>			<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>8/17</i>	<i>2:54</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>
	<i>SP30</i>	<i>✓</i>	<i>6</i>			<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>8/17</i>	<i>3:00</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>
	<i>SP30</i>	<i>✓</i>	<i>6</i>			<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>8/17</i>	<i>3:13</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>
	<i>SP30</i>	<i>✓</i>	<i>6</i>			<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>8/17</i>	<i>3:19</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>
	<i>SP30</i>	<i>✓</i>	<i>6</i>			<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>8/17</i>	<i>3:26</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>

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Relinquished By: *[Signature]* Date: *8/31/17* Received By: *John's Emery Jr.* Date: *8/16/17* Time: *5:00 PM*

Relinquished By: *[Signature]* Date: *8/16/17* Received By: *John's Emery Jr.* Date: *10:45* Time: *Spec*

Delivered By: (Circle One) *UPS* - Bus - Other: *#75* 1.750 Sample Condition: Intact Cool Yes No

CHECKED BY: *[Signature]* ANALYST: *[Signature]* Phone Result: Yes No Add'l Phone #: Fax Result: Yes No Add'l Fax #:

REMARKS: *Cardinal cannot accept verbal changes. Please fax written changes to 505.393.2476. 2.00 Contained 1.25*



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3064

Company Name: BBC International, Inc. **BILL TO** ANALYSIS REQUEST

Project Manager: Cliff Brunson P.O. #:

Address: P.O. Box 805 City: Hobbs State: NM Zip: 88241

Phone #: 575-397-6388 Fax #: 575-397-0397

Project #: Project Owner: OKY

Project Name: P00 22 SF#008

Project Location: 22nd Avenue NW City: Address: State: Zip:

Sampler Name: Posy Lerner/vidor Phone #: Fax #:

FOR LAB USE ONLY

Lab I.D. H702213 Sample I.D.

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	DATE	TIME	REMARKS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :				
21	SP5 Surface		1								8/17	9:45 am	C1
22	SP5 Surface		1								10:14 am	10:14 am	BTEX
23	SP5 Surface		1								10:42 am	10:42 am	TPA EXT
24	SP5 Surface		1								11:05 am	11:05 am	
25	SP5 Surface		1								11:32 am	11:32 am	
26	SP5 Surface		1								11:50 am	11:50 am	
27	SP6 Surface		1								12:35 pm	12:35 pm	
28	SP6 Surface		1								1:20 pm	1:20 pm	
29	SP6 Surface		1								1:34 pm	1:34 pm	
30	SP6 Surface		1										

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Relinquished By: [Signature] Date: 8/16/17 Received By: [Signature] Date: 8/17/17

Relinquished By: [Signature] Date: 8/16/17 Received By: [Signature] Date: 8/17/17

Delivered By: (Circle One) UPS - Bus - Other: #175 Sample Condition: Cool Intact Yes [] No []

Checked By: [Signature]

Phone Result: Yes [] No [] Add'l Phone #: _____

Fax Result: Yes [] No [] Add'l Fax #: _____

REMARKS:

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2.0c corrected + 250c



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Handwritten signature/initials

Company Name: BBC International, Inc. **BILL TO** ANALYSIS REQUEST

Project Manager: Cliff Brunson P.O. #: Company: *OKU*

Address: P.O. Box 805 City: Hobbs State: NM Zip: 88241 Attn: *S. HARK*

Phone #: 575-397-6388 Fax #: 575-397-0397 Address: City: State: Zip:

Project #: Project Owner: *OKU* City: State: Zip:

Project Name: *Wagon St #1008* Phone #: Fax #:

Project Location: *Redau County, NM* Matrix: PRESERV. SAMPLING

Sampler Name: *Victor Hernandez* Matrix: GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: DATE TIME

FOR LAB USE ONLY Lab I.D. Sample I.D. (G)RAB OR (C)OMP. # CONTAINERS

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME						
H702013													8/3/17	1:48 pm	✓					
	31	PROG 81	6											7:05 pm	✓					
	32	PROG 131	6											1:00 pm	✓					
	33	NORTH	6											1:15 pm	✓					
	34	SOUTH	6											1:15 pm	✓					
	35	EAST	6											1:20 pm	✓					
	36	WEST	6												✓					

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

Relinquished By: *Victor Hernandez* Date: *8/3/17* Time: *5:30 pm* Received By: *Stefanie Brumby 1/11/18*

Relinquished By: *Stefanie Brumby 1/11/18* Date: *8/10/17* Time: *10:45* Received By: *Victor Hernandez*

Delivered By: (Circle One) *UPS* #75 Sample Condition: Cool Intact Yes No

Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476. *2.00* *CONCRETE 1.250*

From: Bratcher, Mike, EMNRD
To: [Cliff Brunson](#)
Cc: [Weaver, Crystal, EMNRD](#); [Wade Dittrich](#); [Jennifer_Smith@oxy.com](#); [Ken Swinney](#); [Jennifer Gilkey](#); [Kathy Purvis](#)
Subject: RE: OXY Roo 22 State #008 (2RP-4270) - Delineation Workplan
Date: Monday, March 5, 2018 10:46:17 AM

RE: OXY USA * ROO 22 St 8 * **2RP-4270** * DOR: 5/17/17

Cliff,

Your proposal for remediation of the above referenced release is approved.

Mike Bratcher
NMOCD District 2
811 South First Street
Artesia, NM 88210
575-748-1283 Ext 108

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.

From: Cliff Brunson [mailto:cbrunson@bbcinternational.com]
Sent: Saturday, November 25, 2017 3:16 PM
To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Amber Groves <agroves@slo.state.nm.us>
Cc: Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>; Wade Dittrich <Wade_Dittrich@oxy.com>; Jennifer_Smith@oxy.com; Ken Swinney <kswinney@bbcinternational.com>; Jennifer Gilkey <jgilkey@bbcinternational.com>; Kathy Purvis <kathy@bbcinternational.com>
Subject: OXY Roo 22 State #008 (2RP-4270) - Delineation Workplan

Mike and Amber,

Please find the attached Delineation Workplan and remediation proposal for the OXY Roo 22 State #008 (2RP-4270). OXY is requesting that you review this plan and is looking forward to both the OCD's and SLO's approval.

If you have any questions, please let me know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President

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World-Wide Environmental Specialists
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 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 78701

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 78701
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	9/15/2022