

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Wade Dittrich
Address	PO Box 4294; Houston, TX 77210	Telephone No.	(575) 390-2828
Facility Name	Pluma 29 State #001 Battery	Facility Type	Battery
Surface Owner	State	Mineral Owner	API No. 30-025-34517

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	29	15S	32E					Lea County, NM

Latitude N 32.98882° Longitude W 103.73695°

NATURE OF RELEASE

Type of Release	Oil	Volume of Release	11 bbls	Volume Recovered	4 bbls
Source of Release	Faulty fitting on the circulating pump	Date and Hour of Occurrence	01/07/2017	Date and Hour of Discovery	
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	Tomas Oberding, Olivia Yu-NMOCD; Amber Groves-SLO		
By Whom?	Kathy Purvis @ BBC International	Date and Hour	01/10/2017 @ 4:04 pm		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

A faulty fitting on the circulating pump caused a spill of 11 bbls of oil. A vacuum truck recovered 4 bbls of oil and the fitting was replaced.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 70' x 40' on location inside the berm. Remediation was completed in accordance with the remediation plan approved by Olivia Yu of NMOCD via email on 07/31/2017 and approved by Amber Groves of NMSLO via email on 08/02/2017.

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.

		<u>OIL CONSERVATION DIVISION</u>	
Signature:		Approved by Environmental Specialist: Jocelyn Harimon	
Printed Name: Wade Dittrich		Approval Date: 04/05/2023	
Title: Environmental Specialist		Expiration Date:	
E-mail Address: Wade_Dittrich@oxy.com		Conditions of Approval:	
Date:		None	
Phone: (575) 390-2828		Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

Closure Report

Site Description

Site Name:	Pluma 29 State #001 Battery
Company:	Oxy Permian
Legal Description:	U/L G, Section 29, T15S, R32E
County:	Lea County, NM
GPS Coordinates:	N 32.98882° W 103.73695°

Release Data

Date of Release:	01/07/2017
Type of Release:	Oil
Source of Release:	Faulty fitting on circulating pump
Volume of Release:	11 bbls
Volume Recovered:	4 bbls

Remediation Specifications

Remediation Parameters:	Excavate the entire spill to a depth of 1 foot. Obtain bottom confirmation samples. Backfill the site with clean soil.	
Remediation Activities:	December 2017	
Plan Sent to OCD:	07/06/2017	Email from Cliff Brunson to Olivia Yu
OCD Approval of Plan:	07/31/2017	Email from Olivia Yu to Cliff Brunson
Plan Sent to BLM:	07/06/2017	Email from Cliff Brunson to Amber Groves
BLM Approval of Plan:	08/02/2017	Email from Amber Groves to Cliff Brunson

Supporting Documentation

Initial C-141	Signed 01/23/2017
Final C-141	Upon completion
Site Diagram	January 2017
Groundwater Plot	225'
TOPO Maps	January 2017
Lab Summary	01/24/2017 and 03/06/2018
Lab Analysis	01/24/2017 and 03/06/2018
Correspondence	Request and approval of remediation plan via email

Request for Closure

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

Wade Dittrich, Environmental Specialists, Oxy Permian

03/13/2018

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Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Casey Summers
Address	PO Box 4294; Houston, TX 77210	Telephone No.	(575) 513-8289
Facility Name	Pluma 29 State #001 Battery	Facility Type	Battery

Surface Owner	State	Mineral Owner	API No. 30-025-34517
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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
G	29	15S	32E					Lea County, NM

Latitude N 32.98882° Longitude W 103.73695°

NATURE OF RELEASE

Type of Release	Oil	Volume of Release	11 bbls	Volume Recovered	4 bbls
Source of Release	Faulty fitting on the circulating pump	Date and Hour of Occurrence	01/07/2017	Date and Hour of Discovery	
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	Tomas Oberding, Olivia Yu-NMOCD; Amber Groves-SLO		
By Whom?	Kathy Purvis @ BBC International	Date and Hour	01/10/2017 @ 4:04 pm		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

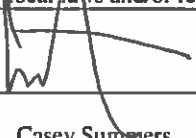
Describe Cause of Problem and Remedial Action Taken.*

A faulty fitting on the circulating pump caused a spill of 11 bbls of oil. A vacuum truck recovered 4 bbls of oil and the fitting was replaced.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 70' x 40' on location inside the berm. Remediation will be completed in accordance with a remediation plan approved by both NMOCD and the 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: 		<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Casey Summers		Approved by Environmental Specialist:	
Title: NM Environmental Advisor		Approval Date:	Expiration Date:
E-mail Address: Casey_Summers@oxy.com		Conditions of Approval:	
Date: 1-23-17 Phone: (575) 513-8289		Attached <input type="checkbox"/>	

Attach Additional Sheets If Necessary

Oxy, Pluma 29 State #001 Battery

Leak date: 01/07/2017
Lea County, NM
API# 30-025-34517
1RP-4589

Legend

- ☆ Cardinal points, hand auger
- Leak Area, 1 ft Excavation across entire leak area
- Sample points, hand auger



Google Earth

Oxy, Pluma 29 State #001 Battery

Samples, hand auger

SP1, N 32.98904 W-103.73669

SP2, N 32.98893 W-103.73670

SP3, N 32.98886 W-103.73674

NORTH, N 32.98906 W-103.73669

SOUTH, N 32.98884 W-103.73675

EAST, N 32.98894 W-103.73667

WEST, N 32.98889 W-103.73678

Oxy, Pluma 29 State #001 Battery
U/L G, Section 29, T15S, R32E
Groundwater: 225'





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

		POD														Water	
POD Number	Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Column		
L_04816 POD7		L	LE	3	2	29	15S	32E		617924	3650847*	<input type="checkbox"/>	0	336	198	138	
L_05090 POD2		L	LE	3	2	29	15S	32E		617924	3650847*	<input type="checkbox"/>	0	337	220	117	
L_04816 S6		L	LE	1	4	1	29	15S	32E	617421	3650941*	<input type="checkbox"/>	511	336	180	156	
L_05125 POD18		L	LE	2	2	1	29	15S	32E	617572	3651435	<input type="checkbox"/>	686	315	240	75	
L_04816 S7		L	LE	2	2	2	29	15S	32E	618421	3651353*	<input type="checkbox"/>	709	340	175	165	
L_04816 POD12		L	LE	3	3	1	28	15S	32E	618628	3650755*	<input type="checkbox"/>	709				
L_04816 S4		L	LE	3	3	1	28	15S	32E	618628	3650755*	<input type="checkbox"/>	709	340	207	133	
L_04816 S4	R	L	LE	3	3	1	28	15S	32E	618628	3650755*	<input type="checkbox"/>	709	340	207	133	
L_05125 POD16		L	LE	2	3	4	20	15S	32E	617992	3651659	<input type="checkbox"/>	815	300	230	70	
L_05125 POD19		L	LE	1	4	4	20	15S	32E	618257	3651628	<input type="checkbox"/>	849	310	237	73	
L_05125 POD17		L	LE	2	4	3	20	15S	32E	617634	3651652	<input type="checkbox"/>	855	315	246	69	
L_04816 S5		L	LE	1	3	29	15S	32E		617124	3650435*	<input type="checkbox"/>	899	332	227	105	
L_03960 X3		L	LE	4	4	29	15S	32E		618337	3650047*	<input type="checkbox"/>	900	348	230	118	
L_05125 POD14		L	LE	4	1	4	20	15S	32E	617969	3651871	<input type="checkbox"/>	1025	315	220	95	
L_04816 S8		L	LE		1	28	15S	32E		618930	3651057*	<input type="checkbox"/>	1027	336	198	138	
L_05125 POD15		L	LE	4	2	3	20	15S	32E	617567	3651857	<input type="checkbox"/>	1072	320	220	100	
L_05125 POD11		L	LE	3	2	4	20	15S	32E	618257	3651875	<input type="checkbox"/>	1080	310	275	35	
L_05125 S2		L	LE	3	3	3	21	15S	32E	618710	3651659	<input type="checkbox"/>	1130	344	210	134	
L_05125 S7		L	LE	4	3	3	21	15S	32E	618818	3651559*	<input type="checkbox"/>	1142				
L_05125 S		L	LE	3	3	3	20	15S	32E	617102	3651646	<input type="checkbox"/>	1146	359	215	144	
L_01656		L	LE	1	2	32	15S	32E		617939	3649640*	<input type="checkbox"/>	1207	331	290	41	
L_05125 POD13		L	LE	4	1	3	20	15S	32E	617164	3651856	<input type="checkbox"/>	1263	317	225	92	
L_05090 POD3		L	LE	2	1	32	15S	32E		617537	3649636*	<input type="checkbox"/>	1271	340	220	120	
L_04816 S9		L	LE	2	3	28	15S	32E		619136	3650458*	<input type="checkbox"/>	1272	336			
L_05125 POD12		L	LE	4	1	3	21	15S	32E	618755	3651869	<input type="checkbox"/>	1317	310	210	100	
L_05125 POD20		L	LE	1	4	3	21	15S	32E	619087	3651669	<input type="checkbox"/>	1424	310	220	90	
L_04857		L	LE	3	3	2	28	15S	32E	619433	3650764*	<input type="checkbox"/>	1511	335	240	95	

Average Depth to Water: **222 feet**

Minimum Depth: **175 feet**

Maximum Depth: **290 feet**

Record Count: 27

UTMNAD83 Radius Search (in meters):

Easting (X): 617924 **Northing (Y):** 3650847 **Radius:** 1700

***UTM location was derived from PLSS - see Help**

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

7/6/17 4:34 PM	WATER COLUMN/ AVERAGE DEPTH TO WATER
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Public Land Survey System (PLSS)					
Q64:	Q16: SW	Q4: NE	Sec: 29	Tws: 15S	Rng: 32E

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: "

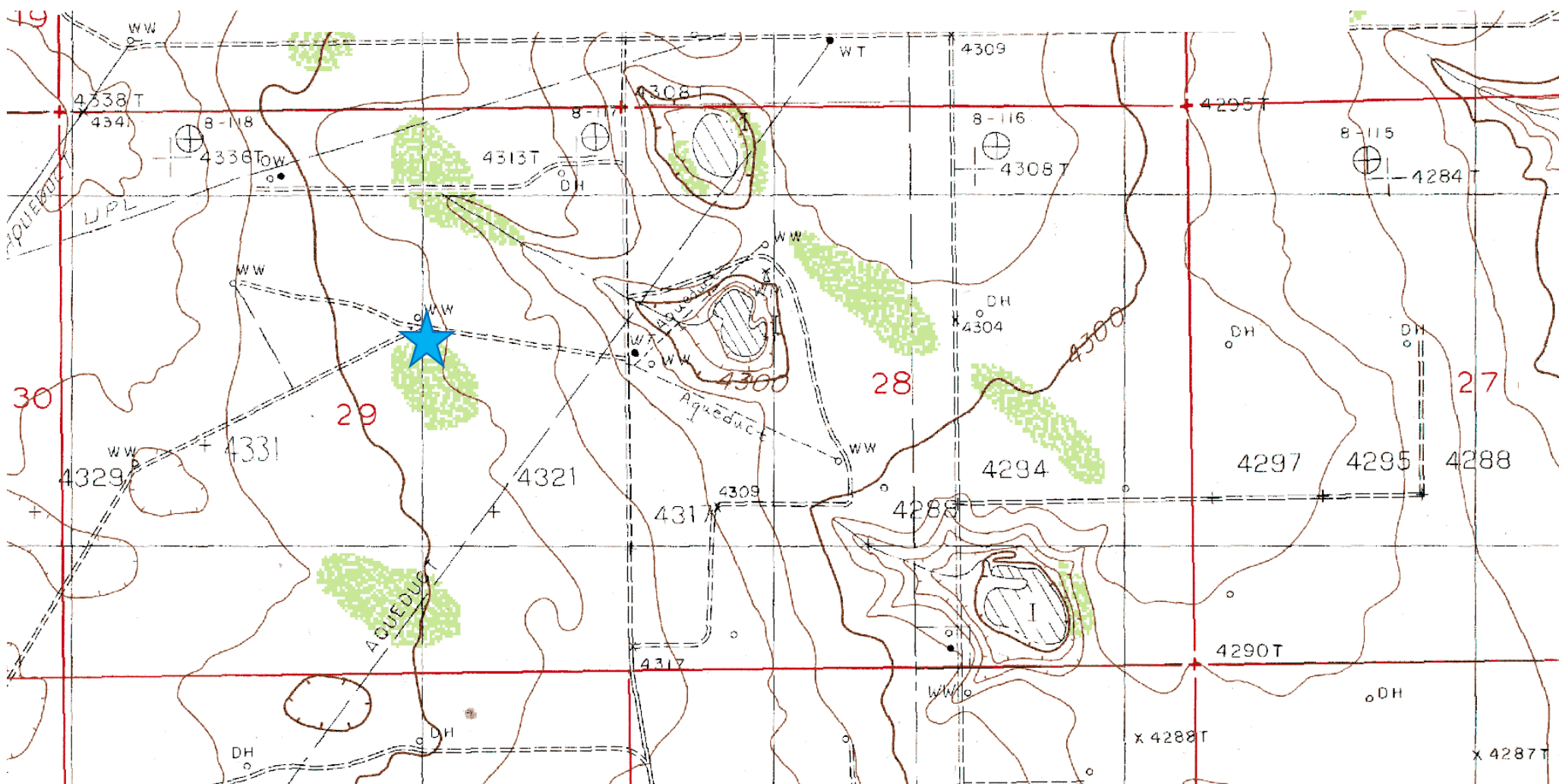
UTM - NAD27					
Easting (X):	mtrs	Northing (Y):	mtrs	Zone:	

SUBMIT

All Conversion Results are displayed as <u>NAD 1983 UTM Zone 13</u>					
Easting (X):	617924.0	mtrs	Northing (Y):	3650847.0	mtrs
~~ Please keep screen open to copy UTM values for Reports. ~~					

Oxy

Pluma 29 State #001 Battery



Laboratory Analytical Results Summary
Pluma 29 State #001 Battery

		Sample	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'
Analyte	Method	Date	1/24/17	1/24/17	1/24/17
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		2.4	<0.200	<0.050
Toluene	BTEX 8021B		35	1.43	0.064
Ethylbenzene	BTEX 8021B		35.3	1.79	0.095
Total Xylenes	BTEX 8021B		125	8.37	0.509
Total BTEX	BTEX 8021B		198	11.6	0.667
GRO	TPH 8015M		2720	290	<10.0
DRO	TPH 8015M		11900	3520	<10.0

		Sample	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'
Analyte	Method	Date	1/24/17	1/24/17	1/24/17
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		1.64	0.123	<0.050
Toluene	BTEX 8021B		18.8	1.12	<0.050
Ethylbenzene	BTEX 8021B		21	0.92	<0.050
Total Xylenes	BTEX 8021B		75.5	4.38	0.242
Total BTEX	BTEX 8021B		117	6.54	<0.300
GRO	TPH 8015M		1790	142	<10.0
DRO	TPH 8015M		9500	1370	<10.0

		Sample	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	1/24/17	1/24/17	1/24/17
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		2.04	0.538	<0.050
Toluene	BTEX 8021B		23.9	6.18	0.071
Ethylbenzene	BTEX 8021B		25.2	6.07	0.084
Total Xylenes	BTEX 8021B		95.7	29.4	0.639
Total BTEX	BTEX 8021B		147	42.2	0.795
GRO	TPH 8015M		2310	558	<10.0
DRO	TPH 8015M		10900	3300	<10.0

		Sample	NORTH @ SURFACE
Analyte	Method	Date	1/24/17
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		0.22
Total BTEX	BTEX 8021B		<0.300
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	EAST @ SURFACE
Analyte	Method	Date	1/24/17
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	SOUTH @ SURFACE
Analyte	Method	Date	1/24/17
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	WEST @ SURFACE
Analyte	Method	Date	1/24/17
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		0.082
Ethylbenzene	BTEX 8021B		0.109
Total Xylenes	BTEX 8021B		0.5
Total BTEX	BTEX 8021B		0.691
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		15.2

Confirmation		Sample ID	SP1 @ 1'
Analyte	Method	Date	3/6/18
			mg/kg
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

Confirmation		Sample ID	SP2 @ 1'
Analyte	Method	Date	3/6/18
			mg/kg
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0

Confirmation		Sample ID	SP3 @ 1'
Analyte	Method	Date	3/6/18
			mg/kg
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0
EXT DRO	TPH 8015M		<10.0



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

February 01, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: PLUMA 29 STATE #001 BATTERY

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

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

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:	01/26/2017	Sampling Date:	01/24/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	PLUMA 29 STATE #001 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: SP 1 @ SURFACE (H700203-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.40	2.00	01/31/2017	ND	1.98	98.8	2.00	0.451	
Toluene*	35.0	2.00	01/31/2017	ND	2.01	100	2.00	0.376	
Ethylbenzene*	35.3	2.00	01/31/2017	ND	2.06	103	2.00	0.437	
Total Xylenes*	125	6.00	01/31/2017	ND	5.86	97.7	6.00	0.156	
Total BTEX	198	12.0	01/31/2017	ND					

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

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	2720	50.0	01/28/2017	ND	192	96.1	200	0.0655		
DRO >C10-C28	11900	50.0	01/28/2017	ND	208	104	200	2.56		

Surrogate: 1-Chlorooctane 261 % 35-147

Surrogate: 1-Chlorooctadecane 633 % 28-171

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:	01/26/2017	Sampling Date:	01/24/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	PLUMA 29 STATE #001 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: SP 1 @ 1' (H700203-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	01/31/2017	ND	1.98	98.8	2.00	0.451	
Toluene*	1.43	0.200	01/31/2017	ND	2.01	100	2.00	0.376	
Ethylbenzene*	1.79	0.200	01/31/2017	ND	2.06	103	2.00	0.437	
Total Xylenes*	8.37	0.600	01/31/2017	ND	5.86	97.7	6.00	0.156	
Total BTEX	11.6	1.20	01/31/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	290	50.0	01/28/2017	ND	192	96.1	200	0.0655	
DRO >C10-C28	3520	50.0	01/28/2017	ND	208	104	200	2.56	

Surrogate: 1-Chlorooctane 109 % 35-147

Surrogate: 1-Chlorooctadecane 136 % 28-171

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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:	01/26/2017	Sampling Date:	01/24/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	PLUMA 29 STATE #001 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: SP 1 @ 2' (H700203-03)

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	01/31/2017	ND	1.98	98.8	2.00	0.451	
Toluene*	0.064	0.050	01/31/2017	ND	2.01	100	2.00	0.376	
Ethylbenzene*	0.095	0.050	01/31/2017	ND	2.06	103	2.00	0.437	
Total Xylenes*	0.509	0.150	01/31/2017	ND	5.86	97.7	6.00	0.156	
Total BTEX	0.667	0.300	01/31/2017	ND					

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

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/28/2017	ND	192	96.1	200	0.0655	
DRO >C10-C28	<10.0	10.0	01/28/2017	ND	208	104	200	2.56	

Surrogate: 1-Chlorooctane 76.6 % 35-147

Surrogate: 1-Chlorooctadecane 81.5 % 28-171

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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:	01/26/2017	Sampling Date:	01/24/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	PLUMA 29 STATE #001 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: SP 2 @ SURFACE (H700203-04)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.64	1.00	01/31/2017	ND	1.98	98.8	2.00	0.451	
Toluene*	18.8	1.00	01/31/2017	ND	2.01	100	2.00	0.376	
Ethylbenzene*	21.0	1.00	01/31/2017	ND	2.06	103	2.00	0.437	
Total Xylenes*	75.5	3.00	01/31/2017	ND	5.86	97.7	6.00	0.156	
Total BTX	117	6.00	01/31/2017	ND					

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

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	1790	50.0	01/28/2017	ND	192	96.1	200	0.0655		
DRO >C10-C28	9500	50.0	01/28/2017	ND	208	104	200	2.56		

Surrogate: 1-Chlorooctane 155 % 35-147

Surrogate: 1-Chlorooctadecane 226 % 28-171

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

Received:	01/26/2017	Sampling Date:	01/24/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	PLUMA 29 STATE #001 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: SP 2 @ 1' (H700203-05)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.123	0.100	01/31/2017	ND	1.98	98.8	2.00	0.451	
Toluene*	1.12	0.100	01/31/2017	ND	2.01	100	2.00	0.376	
Ethylbenzene*	0.920	0.100	01/31/2017	ND	2.06	103	2.00	0.437	
Total Xylenes*	4.38	0.300	01/31/2017	ND	5.86	97.7	6.00	0.156	
Total BTEX	6.54	0.600	01/31/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	142	50.0	01/30/2017	ND	188	93.8	200	3.89	QR-03
DRO >C10-C28	1370	50.0	01/30/2017	ND	223	111	200	4.73	QR-03, QM-07

Surrogate: 1-Chlorooctane 87.1 % 35-147

Surrogate: 1-Chlorooctadecane 99.3 % 28-171

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Received:	01/26/2017	Sampling Date:	01/24/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	PLUMA 29 STATE #001 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: SP 2 @ 2' (H700203-06)

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	01/31/2017	ND	1.98	98.8	2.00	0.451	
Toluene*	<0.050	0.050	01/31/2017	ND	2.01	100	2.00	0.376	
Ethylbenzene*	<0.050	0.050	01/31/2017	ND	2.06	103	2.00	0.437	
Total Xylenes*	0.242	0.150	01/31/2017	ND	5.86	97.7	6.00	0.156	
Total BTEX	<0.300	0.300	01/31/2017	ND					

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

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

Surrogate: 1-Chlorooctane 72.4 % 35-147

Surrogate: 1-Chlorooctadecane 76.5 % 28-171

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Received:	01/26/2017	Sampling Date:	01/24/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	PLUMA 29 STATE #001 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: SP 3 @ SURFACE (H700203-07)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	2.04	2.00	02/01/2017	ND	1.98	98.8	2.00	0.451		
Toluene*	23.9	2.00	02/01/2017	ND	2.01	100	2.00	0.376		
Ethylbenzene*	25.2	2.00	02/01/2017	ND	2.06	103	2.00	0.437		
Total Xylenes*	95.7	6.00	02/01/2017	ND	5.86	97.7	6.00	0.156		
Total BTX	147	12.0	02/01/2017	ND						

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

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	2310	50.0	01/30/2017	ND	188	93.8	200	3.89		
DRO >C10-C28	10900	50.0	01/30/2017	ND	223	111	200	4.73		

Surrogate: 1-Chlorooctane 164 % 35-147

Surrogate: 1-Chlorooctadecane 243 % 28-171

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

Received:	01/26/2017	Sampling Date:	01/24/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	PLUMA 29 STATE #001 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: SP 3 @ 1' (H700203-08)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.538	0.500	02/01/2017	ND	1.98	98.8	2.00	0.451	
Toluene*	6.18	0.500	02/01/2017	ND	2.01	100	2.00	0.376	
Ethylbenzene*	6.07	0.500	02/01/2017	ND	2.06	103	2.00	0.437	
Total Xylenes*	29.4	1.50	02/01/2017	ND	5.86	97.7	6.00	0.156	
Total BTEX	42.2	3.00	02/01/2017	ND					

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

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	558	50.0	01/30/2017	ND	188	93.8	200	3.89		
DRO >C10-C28	3300	50.0	01/30/2017	ND	223	111	200	4.73		

Surrogate: 1-Chlorooctane 134 % 35-147

Surrogate: 1-Chlorooctadecane 125 % 28-171

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Received:	01/26/2017	Sampling Date:	01/24/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	PLUMA 29 STATE #001 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: SP 3 @ 2' (H700203-09)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2017	ND	1.98	98.8	2.00	0.451	
Toluene*	0.071	0.050	02/01/2017	ND	2.01	100	2.00	0.376	
Ethylbenzene*	0.084	0.050	02/01/2017	ND	2.06	103	2.00	0.437	
Total Xylenes*	0.639	0.150	02/01/2017	ND	5.86	97.7	6.00	0.156	
Total BTEX	0.795	0.300	02/01/2017	ND					

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

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

Surrogate: 1-Chlorooctane 90.8 % 35-147

Surrogate: 1-Chlorooctadecane 94.6 % 28-171

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 Cliff Brunson
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 Fax To: (575) 397-0397

Received:	01/26/2017	Sampling Date:	01/24/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	PLUMA 29 STATE #001 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: NORTH SAMPLE @ SURFACE (H700203-10)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/01/2017	ND	1.98	98.8	2.00	0.451		
Toluene*	<0.050	0.050	02/01/2017	ND	2.01	100	2.00	0.376		
Ethylbenzene*	<0.050	0.050	02/01/2017	ND	2.06	103	2.00	0.437		
Total Xylenes*	0.220	0.150	02/01/2017	ND	5.86	97.7	6.00	0.156		
Total BTEX	<0.300	0.300	02/01/2017	ND						

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

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

Surrogate: 1-Chlorooctane 83.5 % 35-147

Surrogate: 1-Chlorooctadecane 79.5 % 28-171

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Received:	01/26/2017	Sampling Date:	01/24/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	PLUMA 29 STATE #001 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: EAST SAMPLE (H700203-11)

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	02/01/2017	ND	1.98	98.8	2.00	0.451		
Toluene*	<0.050	0.050	02/01/2017	ND	2.01	100	2.00	0.376		
Ethylbenzene*	<0.050	0.050	02/01/2017	ND	2.06	103	2.00	0.437		
Total Xylenes*	<0.150	0.150	02/01/2017	ND	5.86	97.7	6.00	0.156		
Total BTEX	<0.300	0.300	02/01/2017	ND						

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

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

Surrogate: 1-Chlorooctane 86.1 % 35-147

Surrogate: 1-Chlorooctadecane 90.4 % 28-171

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Received:	01/26/2017	Sampling Date:	01/24/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	PLUMA 29 STATE #001 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: SOUTH SAMPLE (H700203-12)

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	02/01/2017	ND	1.98	98.8	2.00	0.451		
Toluene*	<0.050	0.050	02/01/2017	ND	2.01	100	2.00	0.376		
Ethylbenzene*	<0.050	0.050	02/01/2017	ND	2.06	103	2.00	0.437		
Total Xylenes*	<0.150	0.150	02/01/2017	ND	5.86	97.7	6.00	0.156		
Total BTEX	<0.300	0.300	02/01/2017	ND						

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

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

Surrogate: 1-Chlorooctane 86.9 % 35-147

Surrogate: 1-Chlorooctadecane 88.4 % 28-171

Cardinal Laboratories

*=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:	01/26/2017	Sampling Date:	01/24/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	PLUMA 29 STATE #001 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: WEST SAMPLE (H700203-13)

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	02/01/2017	ND	1.98	98.8	2.00	0.451	
Toluene*	0.082	0.050	02/01/2017	ND	2.01	100	2.00	0.376	
Ethylbenzene*	0.109	0.050	02/01/2017	ND	2.06	103	2.00	0.437	
Total Xylenes*	0.500	0.150	02/01/2017	ND	5.86	97.7	6.00	0.156	
Total BTEX	0.691	0.300	02/01/2017	ND					

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

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/30/2017	ND	188	93.8	200	3.89	
DRO >C10-C28	15.2	10.0	01/30/2017	ND	223	111	200	4.73	

Surrogate: 1-Chlorooctane 66.4 % 35-147

Surrogate: 1-Chlorooctadecane 68.5 % 28-171

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

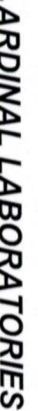
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

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

Page 16 of 17



ORDINAL LABORATORIES

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

March 08, 2018

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: PLUMA 29 STATE #001

Enclosed are the results of analyses for samples received by the laboratory on 03/06/18 16:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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 fluid and cursive, with the first name "Celey" being more prominent.

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:	03/06/2018	Sampling Date:	03/06/2018
Reported:	03/08/2018	Sampling Type:	Soil
Project Name:	PLUMA 29 STATE #001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALJAMAR		

Sample ID: SP 1 @ 1' (H800669-01)

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	03/07/2018	ND	216	108	200	2.77	
DRO >C10-C28*	<10.0	10.0	03/07/2018	ND	203	102	200	0.0596	
EXT DRO >C28-C36	<10.0	10.0	03/07/2018	ND					
<hr/>									
Surrogate: 1-Chlorooctane	97.9 %	41-142							
Surrogate: 1-Chlorooctadecane	87.4 %	37.6-147							

Sample ID: SP 2 @ 1' (H800669-02)

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	03/07/2018	ND	216	108	200	2.77	
DRO >C10-C28*	<10.0	10.0	03/07/2018	ND	203	102	200	0.0596	
EXT DRO >C28-C36	<10.0	10.0	03/07/2018	ND					
<hr/>									
Surrogate: 1-Chlorooctane	104 %	41-142							
Surrogate: 1-Chlorooctadecane	93.0 %	37.6-147							

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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:	03/06/2018	Sampling Date:	03/06/2018
Reported:	03/08/2018	Sampling Type:	Soil
Project Name:	PLUMA 29 STATE #001	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY - MALJAMAR		

Sample ID: SP 3 @ 1' (H800669-03)

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	03/07/2018	ND	216	108	200	2.77	
DRO >C10-C28*	<10.0	10.0	03/07/2018	ND	203	102	200	0.0596	
EXT DRO >C28-C36	<10.0	10.0	03/07/2018	ND					
Surrogate: 1-Chlorooctane	101 %	41-142							
Surrogate: 1-Chlorooctadecane	90.6 %	37.6-147							

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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, appearing to read "Celey D. Keene", is written over a horizontal line.

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.		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Cliff Brunson		Company:					
Address: P.O. Box 805		Attn:					
City: Hobbs		State: NM Zip: 88241					
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:			
Project #:		Project Owner: DXY		City:			
Project Name: Plaza 29 State #1		State: Zip:		Phone #:			
Project Location: Plaza 29		Fax #:					
Sampler Name: 1.0		PRESERV		SAMPLING			
FOR LAB USE ONLY							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	DATE	TIME	
1800619	5/10/1			GROUNDWATER	3-6	1111	X
2	5/20/1			WASTEWATER	3-6	1130	X
3	5/30/1			SOIL	3-6	1230	X
				OIL			
				SLUDGE			
				OTHER:			
				ACID/BASE:			
				ICE / COOL			
				OTHER:			
Relinquished By: [Signature]		Date: 3-6-16		Received By: [Signature]		Date: 3-6-16	
Time: 4:55		Time:		Time:		Time:	
Delivered By: (Circle One) -1.3a		Sample Condition		CHECKED BY: (Initials)			
Sampler - UPS - Bus - Other: [Signature]		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			
Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476		Remarks: Was some head space					

From: Yu, Olivia, EMNRD
To: [Cliff Brunson](#); [Amber Groves](#)
Cc: [Wade Dittrich](#); [Jennifer_Smith@oxy.com](#); [Ken Swinney](#); [Jennifer Gilkey](#); [Kathy Purvis](#)
Subject: RE: OXY- Pluma 29 State #001 Battery (1RP-4589) - Delineation Workplan
Date: Monday, July 31, 2017 9:01:01 AM
Attachments: [approved_1RP4589_Delineation Workplan, Pluma 29 State #001 Battery.pdf](#)

Mr. Brunson:

NMOCD approves of the delineation and proposed remediation for 1RP-4589 with one condition:
Bottom confirmation samples with Method 8015 extended (GRO, DRO, and MRO).

Please confirm. Like approval from NMSLO required.

Thanks,

Olivia Yu
Environmental Specialist
NMOCD, District I
Olivia.yu@state.nm.us
575-393-6161 x113

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: Thursday, July 6, 2017 7:17 PM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>; Amber Groves <agroves@slo.state.nm.us>
Cc: 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- Pluma 29 State #001 Battery (1RP-4589) - Delineation Workplan

Olivia and Amber,

Please find the attached Delineation Workplan and remediation proposal for the OXY Pluma 29 State #001 Battery (1RP-4589). OXY is requesting that you review this plan and is looking forward to the OCD's and SLO's approval.

If you have any questions, please let me 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:
1324 W. Marland St.
Hobbs, NM 88240 USA
Phone: (575) 397-6388
Fax: (575) 397-0397
E-Mail: cbrunson@bbcinternational.com



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From: Groves, Amber
To: [Yu, Olivia, EMNRD](#); [Cliff Brunson](#)
Cc: [Wade Dittrich](#); [Jennifer_Smith@oxy.com](#); [Ken Swinney](#); [Jennifer Gilkey](#); [Kathy Purvis](#)
Subject: RE: OXY- Pluma 29 State #001 Battery (1RP-4589) - Delineation Workplan
Date: Wednesday, August 2, 2017 8:00:42 AM
Attachments: [image002.png](#)
[image001.png](#)

Good Morning,

NMSLO agrees with delineation and work plan approval and bottom confirmation samples.

Thank you,

Amber Groves

Remediation Specialist

Field Operations Division

(575)392-3697

(575)263-3209 cell

New Mexico State Land Office

2827 N. Dal Paso Suite 117

Hobbs, NM 88260

.....
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From: Yu, Olivia, EMNRD [mailto:Olivia.Yu@state.nm.us]
Sent: Monday, July 31, 2017 9:00 AM
To: Cliff Brunson <cbrunson@bbcinternational.com>; Groves, Amber <agroves@slo.state.nm.us>
Cc: 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>
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Olivia Yu
Environmental Specialist
NMOCD, District I
Olivia.yu@state.nm.us
575-393-6161 x113

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Cc: 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>
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If you have any questions, please let me 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:
1324 W. Marland St.
Hobbs, NM 88240 USA
Phone: (575) 397-6388
Fax: (575) 397-0397

E-Mail: cbrunson@bbcinternational.com



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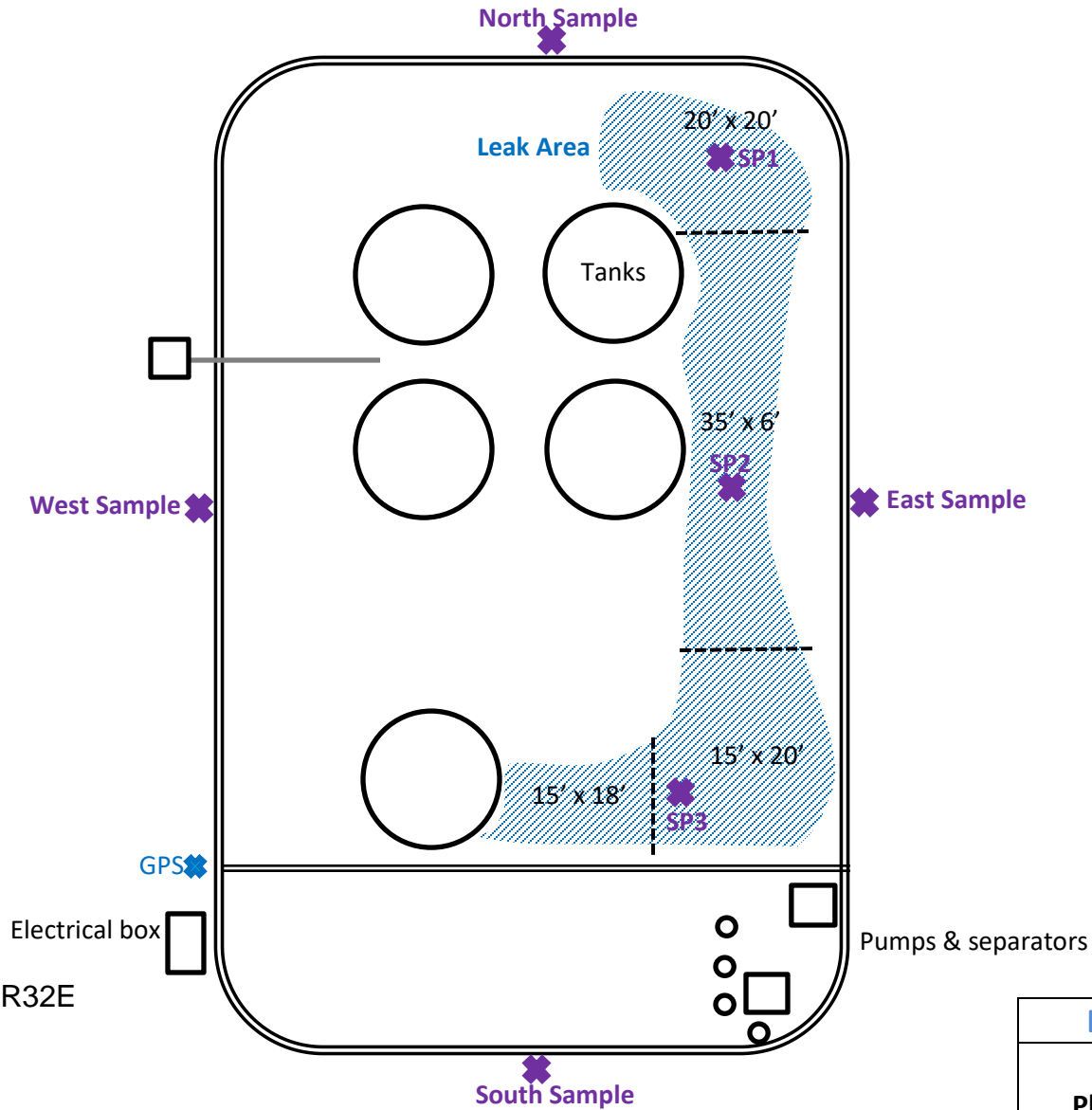








Oxy
Pluma 29 State #001 Battery



UL G, Section 29, T15S, R32E

Lea County, NM

N 32.98882° W 103.73695°

API# 30-025-34517

BBC International, Inc.

Oxy

Pluma 29 State #001 Battery

Date: 01/19/2017

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2017

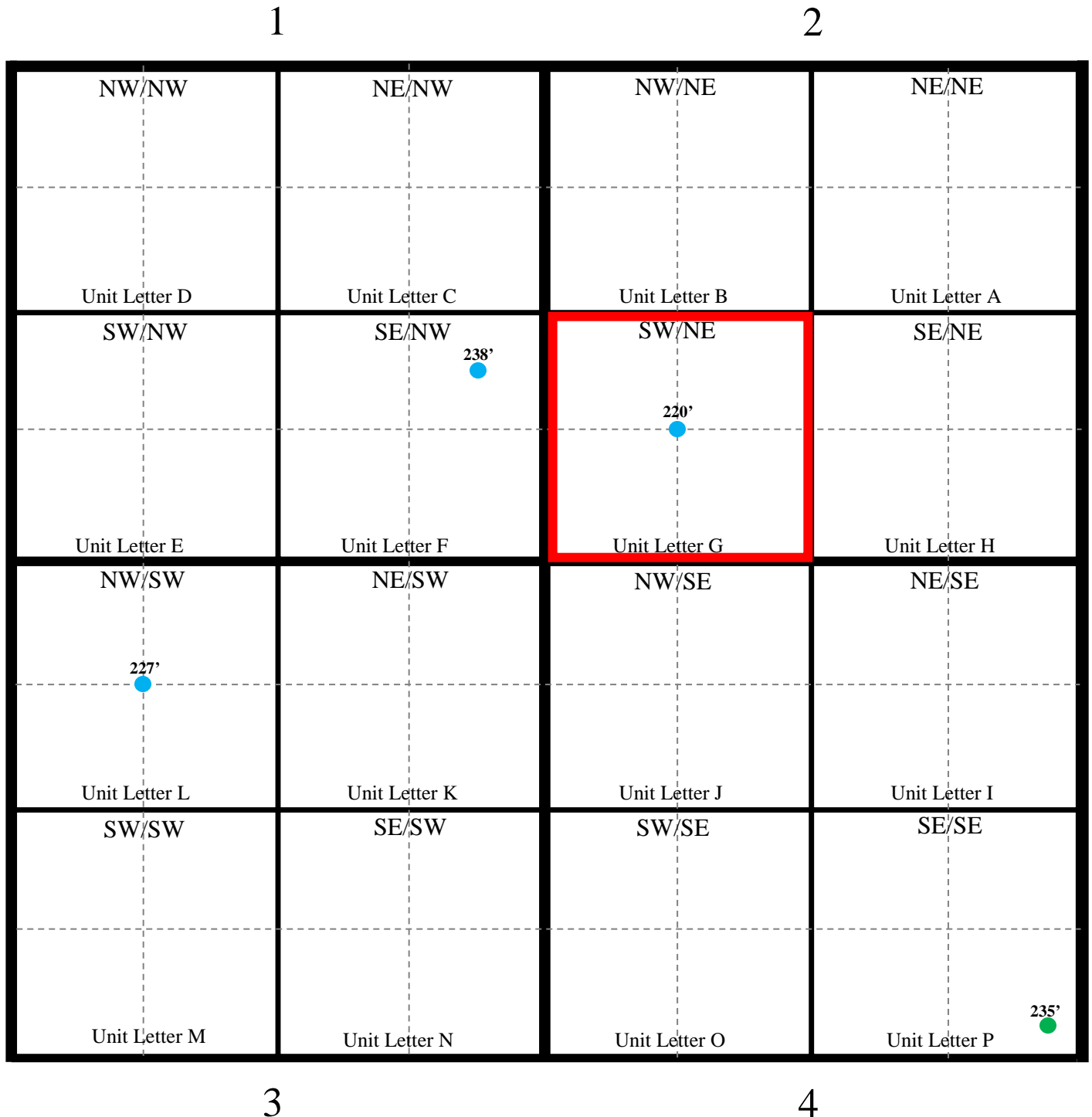


Section Quarters

Oxy Pluma 29 State #001 Battery

County	Unit Letter	Section	Township	Range
Lea	G	29	15S	32E

Trend Map 225'



✱ Location
 ● OCD
 ● USGS
 ● SEO
 ● All Databases

Laboratory Analytical Results Summary
Pluma 29 State #001 Battery

		Sample	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'
Analyte	Method	Date	1/24/17	1/24/17	1/24/17
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		2.4	<0.200	<0.050
Toluene	BTEX 8021B		35	1.43	0.064
Ethylbenzene	BTEX 8021B		35.3	1.79	0.095
Total Xylenes	BTEX 8021B		125	8.37	0.509
Total BTEX	BTEX 8021B		198	11.6	0.667
GRO	TPH 8015M		2720	290	<10.0
DRO	TPH 8015M		11900	3520	<10.0

		Sample	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'
Analyte	Method	Date	1/24/17	1/24/17	1/24/17
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		1.64	0.123	<0.050
Toluene	BTEX 8021B		18.8	1.12	<0.050
Ethylbenzene	BTEX 8021B		21	0.92	<0.050
Total Xylenes	BTEX 8021B		75.5	4.38	0.242
Total BTEX	BTEX 8021B		117	6.54	<0.300
GRO	TPH 8015M		1790	142	<10.0
DRO	TPH 8015M		9500	1370	<10.0

		Sample	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	1/24/17	1/24/17	1/24/17
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		2.04	0.538	<0.050
Toluene	BTEX 8021B		23.9	6.18	0.071
Ethylbenzene	BTEX 8021B		25.2	6.07	0.084
Total Xylenes	BTEX 8021B		95.7	29.4	0.639
Total BTEX	BTEX 8021B		147	42.2	0.795
GRO	TPH 8015M		2310	558	<10.0
DRO	TPH 8015M		10900	3300	<10.0

		Sample	NORTH @ SURFACE
Analyte	Method	Date	1/24/17
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		0.22
Total BTEX	BTEX 8021B		<0.300
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	EAST @ SURFACE
Analyte	Method	Date	1/24/17
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	SOUTH @ SURFACE
Analyte	Method	Date	1/24/17
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	WEST @ SURFACE
Analyte	Method	Date	1/24/17
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		0.082
Ethylbenzene	BTEX 8021B		0.109
Total Xylenes	BTEX 8021B		0.5
Total BTEX	BTEX 8021B		0.691
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		15.2



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

February 01, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: PLUMA 29 STATE #001 BATTERY

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

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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:	01/26/2017	Sampling Date:	01/24/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	PLUMA 29 STATE #001 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: SP 1 @ SURFACE (H700203-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.40	2.00	01/31/2017	ND	1.98	98.8	2.00	0.451	
Toluene*	35.0	2.00	01/31/2017	ND	2.01	100	2.00	0.376	
Ethylbenzene*	35.3	2.00	01/31/2017	ND	2.06	103	2.00	0.437	
Total Xylenes*	125	6.00	01/31/2017	ND	5.86	97.7	6.00	0.156	
Total BTEX	198	12.0	01/31/2017	ND					

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

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	2720	50.0	01/28/2017	ND	192	96.1	200	0.0655		
DRO >C10-C28	11900	50.0	01/28/2017	ND	208	104	200	2.56		

Surrogate: 1-Chlorooctane 261 % 35-147

Surrogate: 1-Chlorooctadecane 633 % 28-171

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Analytical Results For:

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

Received:	01/26/2017	Sampling Date:	01/24/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	PLUMA 29 STATE #001 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: SP 1 @ 1' (H700203-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	01/31/2017	ND	1.98	98.8	2.00	0.451	
Toluene*	1.43	0.200	01/31/2017	ND	2.01	100	2.00	0.376	
Ethylbenzene*	1.79	0.200	01/31/2017	ND	2.06	103	2.00	0.437	
Total Xylenes*	8.37	0.600	01/31/2017	ND	5.86	97.7	6.00	0.156	
Total BTEX	11.6	1.20	01/31/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	290	50.0	01/28/2017	ND	192	96.1	200	0.0655	
DRO >C10-C28	3520	50.0	01/28/2017	ND	208	104	200	2.56	

Surrogate: 1-Chlorooctane 109 % 35-147

Surrogate: 1-Chlorooctadecane 136 % 28-171

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Analytical Results For:

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

Received:	01/26/2017	Sampling Date:	01/24/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	PLUMA 29 STATE #001 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: SP 1 @ 2' (H700203-03)

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	01/31/2017	ND	1.98	98.8	2.00	0.451	
Toluene*	0.064	0.050	01/31/2017	ND	2.01	100	2.00	0.376	
Ethylbenzene*	0.095	0.050	01/31/2017	ND	2.06	103	2.00	0.437	
Total Xylenes*	0.509	0.150	01/31/2017	ND	5.86	97.7	6.00	0.156	
Total BTEX	0.667	0.300	01/31/2017	ND					

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

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/28/2017	ND	192	96.1	200	0.0655	
DRO >C10-C28	<10.0	10.0	01/28/2017	ND	208	104	200	2.56	

Surrogate: 1-Chlorooctane 76.6 % 35-147

Surrogate: 1-Chlorooctadecane 81.5 % 28-171

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Analytical Results For:

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 Fax To: (575) 397-0397

Received:	01/26/2017	Sampling Date:	01/24/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	PLUMA 29 STATE #001 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: SP 2 @ SURFACE (H700203-04)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.64	1.00	01/31/2017	ND	1.98	98.8	2.00	0.451	
Toluene*	18.8	1.00	01/31/2017	ND	2.01	100	2.00	0.376	
Ethylbenzene*	21.0	1.00	01/31/2017	ND	2.06	103	2.00	0.437	
Total Xylenes*	75.5	3.00	01/31/2017	ND	5.86	97.7	6.00	0.156	
Total BTX	117	6.00	01/31/2017	ND					

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

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	1790	50.0	01/28/2017	ND	192	96.1	200	0.0655		
DRO >C10-C28	9500	50.0	01/28/2017	ND	208	104	200	2.56		

Surrogate: 1-Chlorooctane 155 % 35-147

Surrogate: 1-Chlorooctadecane 226 % 28-171

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Analytical Results For:

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Received:	01/26/2017	Sampling Date:	01/24/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	PLUMA 29 STATE #001 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: SP 2 @ 1' (H700203-05)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	0.123	0.100	01/31/2017	ND	1.98	98.8	2.00	0.451		
Toluene*	1.12	0.100	01/31/2017	ND	2.01	100	2.00	0.376		
Ethylbenzene*	0.920	0.100	01/31/2017	ND	2.06	103	2.00	0.437		
Total Xylenes*	4.38	0.300	01/31/2017	ND	5.86	97.7	6.00	0.156		
Total BTX	6.54	0.600	01/31/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	142	50.0	01/30/2017	ND	188	93.8	200	3.89	QR-03	
DRO >C10-C28	1370	50.0	01/30/2017	ND	223	111	200	4.73	QR-03, QM-07	

Surrogate: 1-Chlorooctane 87.1 % 35-147

Surrogate: 1-Chlorooctadecane 99.3 % 28-171

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Analytical Results For:

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

Received:	01/26/2017	Sampling Date:	01/24/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	PLUMA 29 STATE #001 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: SP 2 @ 2' (H700203-06)

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	01/31/2017	ND	1.98	98.8	2.00	0.451		
Toluene*	<0.050	0.050	01/31/2017	ND	2.01	100	2.00	0.376		
Ethylbenzene*	<0.050	0.050	01/31/2017	ND	2.06	103	2.00	0.437		
Total Xylenes*	0.242	0.150	01/31/2017	ND	5.86	97.7	6.00	0.156		
Total BTEX	<0.300	0.300	01/31/2017	ND						

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

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

Surrogate: 1-Chlorooctane 72.4 % 35-147

Surrogate: 1-Chlorooctadecane 76.5 % 28-171

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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:	01/26/2017	Sampling Date:	01/24/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	PLUMA 29 STATE #001 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: SP 3 @ SURFACE (H700203-07)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.04	2.00	02/01/2017	ND	1.98	98.8	2.00	0.451	
Toluene*	23.9	2.00	02/01/2017	ND	2.01	100	2.00	0.376	
Ethylbenzene*	25.2	2.00	02/01/2017	ND	2.06	103	2.00	0.437	
Total Xylenes*	95.7	6.00	02/01/2017	ND	5.86	97.7	6.00	0.156	
Total BTX	147	12.0	02/01/2017	ND					

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

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	2310	50.0	01/30/2017	ND	188	93.8	200	3.89		
DRO >C10-C28	10900	50.0	01/30/2017	ND	223	111	200	4.73		

Surrogate: 1-Chlorooctane 164 % 35-147

Surrogate: 1-Chlorooctadecane 243 % 28-171

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Analytical Results For:

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Received:	01/26/2017	Sampling Date:	01/24/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	PLUMA 29 STATE #001 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: SP 3 @ 1' (H700203-08)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.538	0.500	02/01/2017	ND	1.98	98.8	2.00	0.451	
Toluene*	6.18	0.500	02/01/2017	ND	2.01	100	2.00	0.376	
Ethylbenzene*	6.07	0.500	02/01/2017	ND	2.06	103	2.00	0.437	
Total Xylenes*	29.4	1.50	02/01/2017	ND	5.86	97.7	6.00	0.156	
Total BTEX	42.2	3.00	02/01/2017	ND					

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

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	558	50.0	01/30/2017	ND	188	93.8	200	3.89		
DRO >C10-C28	3300	50.0	01/30/2017	ND	223	111	200	4.73		

Surrogate: 1-Chlorooctane 134 % 35-147

Surrogate: 1-Chlorooctadecane 125 % 28-171

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Received:	01/26/2017	Sampling Date:	01/24/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	PLUMA 29 STATE #001 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: SP 3 @ 2' (H700203-09)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/01/2017	ND	1.98	98.8	2.00	0.451	
Toluene*	0.071	0.050	02/01/2017	ND	2.01	100	2.00	0.376	
Ethylbenzene*	0.084	0.050	02/01/2017	ND	2.06	103	2.00	0.437	
Total Xylenes*	0.639	0.150	02/01/2017	ND	5.86	97.7	6.00	0.156	
Total BTEX	0.795	0.300	02/01/2017	ND					

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

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

Surrogate: 1-Chlorooctane 90.8 % 35-147

Surrogate: 1-Chlorooctadecane 94.6 % 28-171

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Received:	01/26/2017	Sampling Date:	01/24/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	PLUMA 29 STATE #001 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: NORTH SAMPLE @ SURFACE (H700203-10)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/01/2017	ND	1.98	98.8	2.00	0.451		
Toluene*	<0.050	0.050	02/01/2017	ND	2.01	100	2.00	0.376		
Ethylbenzene*	<0.050	0.050	02/01/2017	ND	2.06	103	2.00	0.437		
Total Xylenes*	0.220	0.150	02/01/2017	ND	5.86	97.7	6.00	0.156		
Total BTEX	<0.300	0.300	02/01/2017	ND						

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

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

Surrogate: 1-Chlorooctane 83.5 % 35-147

Surrogate: 1-Chlorooctadecane 79.5 % 28-171

Cardinal Laboratories

*=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:	01/26/2017	Sampling Date:	01/24/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	PLUMA 29 STATE #001 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: EAST SAMPLE (H700203-11)

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	02/01/2017	ND	1.98	98.8	2.00	0.451		
Toluene*	<0.050	0.050	02/01/2017	ND	2.01	100	2.00	0.376		
Ethylbenzene*	<0.050	0.050	02/01/2017	ND	2.06	103	2.00	0.437		
Total Xylenes*	<0.150	0.150	02/01/2017	ND	5.86	97.7	6.00	0.156		
Total BTEX	<0.300	0.300	02/01/2017	ND						

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

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

Surrogate: 1-Chlorooctane 86.1 % 35-147

Surrogate: 1-Chlorooctadecane 90.4 % 28-171

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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:	01/26/2017	Sampling Date:	01/24/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	PLUMA 29 STATE #001 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: SOUTH SAMPLE (H700203-12)

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	02/01/2017	ND	1.98	98.8	2.00	0.451		
Toluene*	<0.050	0.050	02/01/2017	ND	2.01	100	2.00	0.376		
Ethylbenzene*	<0.050	0.050	02/01/2017	ND	2.06	103	2.00	0.437		
Total Xylenes*	<0.150	0.150	02/01/2017	ND	5.86	97.7	6.00	0.156		
Total BTEx	<0.300	0.300	02/01/2017	ND						

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

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

Surrogate: 1-Chlorooctane 86.9 % 35-147

Surrogate: 1-Chlorooctadecane 88.4 % 28-171

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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:	01/26/2017	Sampling Date:	01/24/2017
Reported:	02/01/2017	Sampling Type:	Soil
Project Name:	PLUMA 29 STATE #001 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	LEA COUNTY, NM		

Sample ID: WEST SAMPLE (H700203-13)

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	02/01/2017	ND	1.98	98.8	2.00	0.451		
Toluene*	0.082	0.050	02/01/2017	ND	2.01	100	2.00	0.376		
Ethylbenzene*	0.109	0.050	02/01/2017	ND	2.06	103	2.00	0.437		
Total Xylenes*	0.500	0.150	02/01/2017	ND	5.86	97.7	6.00	0.156		
Total BTEx	0.691	0.300	02/01/2017	ND						

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

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/30/2017	ND	188	93.8	200	3.89		
DRO >C10-C28	15.2	10.0	01/30/2017	ND	223	111	200	4.73		

Surrogate: 1-Chlorooctane 66.4 % 35-147

Surrogate: 1-Chlorooctadecane 68.5 % 28-171

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Celey D. Keene, Lab Director/Quality Manager



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

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A handwritten signature in black ink, appearing to read "Celey D. Keene", written in a cursive style.

Celey D. Keene, Lab Director/Quality Manager



ORDINAL 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.						BILL TO							ANALYSIS REQUEST								
Project Manager: Cliff Brunson						P.O. #:															
Address: P.O. Box 805						Company:							Oxy								
City: Hobbs						State: NM Zip: 88241							Attn: Casey Summers								
Phone #: 575-397-6388						Fax #: 575-397-0397							Address:								
Project #:						Project Owner: Oxy							City:								
Project Name: Pluma 29 State #001 Battery						State:							Zip:								
Project Location: Lea County, NM						Phone #:															
Sample Name: Roger Hernandez						Fax #:															
FOR LAB USE ONLY																					
Lab I.D.						Sample I.D.															
#700203-						(G)RAB OR (C)OMP.															
						# CONTAINERS															
						GROUNDWATER															
						WASTEWATER															
						SOIL															
						OIL															
						SLUDGE															
						OTHER :															
						ACID/BASE:															
						ICE / COOL															
						OTHER :															
						DATE							TIME								
01						SP1 @ SURFACE							✓ ✓								
J2						SP1 @ 1'							1/24/17 9:30 AM ✓ ✓								
J3						SP1 @ 2'							1/24/17 9:50 AM ✓ ✓								
J4						SP2 @ SURFACE							1/24/17 10:20 AM ✓ ✓								
J5						SP2 @ 1'							1/24/17 10:40 AM ✓ ✓								
J6						SP2 @ 2'							1/24/17 11:00 AM ✓ ✓								
J7						SP3 @ SURFACE							1/24/17 11:25 AM ✓ ✓								
J8						SP3 @ 1'							1/24/17 12:00 PM ✓ ✓								
J9						SP3 @ 2'							1/24/17 1:00 PM ✓ ✓								
10						NORTH SAMPLE @ SURFACE							1/24/17 1:15 PM ✓ ✓								
						1/24/17 1:25 PM							✓ ✓								
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Relinquished By: [Signature]						Date: 1/24/17 Time: 5:40pm							Received By: [Signature]								
Reinquinshed By: [Signature]						Date: 1/24/17 Time: 5:10am							Sample Condition Cool Intact Yes No Yes No								
Delivered By: (Circle One)						SAMPLING							CHECKED BY: [Signature] (Initials) CAC #75								
Sampler - UPS - Bus - Other:						- S.9°C															
REMARKS: 																					



ORDINAL 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.										BILL TO										ANALYSIS REQUEST									
Project Manager: Cliff Brunson										P.O. #:										Company:									
Address: P.O. Box 805										State: NM										Attn: Casey Summers									
City: Hobbs										Zip: 88241										Address:									
Phone #: 575-397-6388										Fax #: 575-397-0397										City:									
Project #:										Project Owner: Oxy										State:									
Project Name: Pluma 29 State #001 Battery										City:										Zip:									
Project Location: Lea County, NM										Phone #:										Fax #:									
Sample Name: Roger Hernandez										FOR LAB USE ONLY																			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	TPH	BTEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :						
H700203-	11 EAST SAMPLE		61			✓						1/24/17	1:35 PM	✓	✓
	13 SOUTH SAMPLE		61			✓						1/24/17	1:45 PM	✓	✓
	13 WEST SAMPLE		61			✓						1/24/17	1:55 PM	✓	✓

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Relinquished By: <i>[Signature]</i> Date: 1/27/17 Time: 5:00 PM	Received By: <i>[Signature]</i> Date: 1/26/17 Time: 5:00 PM
--	--

Delivered By: (Circle One) Sampler - UPS Bus Other:	Sample Condition Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: <i>[Signature]</i> (Initials) CA #75
---	---	---

REMARKS: Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: _____

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Casey Summers
Address	PO Box 4294; Houston, TX 77210	Telephone No.	(575) 513-8289
Facility Name	Pluma 29 State #001 Battery	Facility Type	Battery

Surface Owner	State	Mineral Owner	API No. 30-025-34517
---------------	-------	---------------	----------------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	29	15S	32E					Lea County, NM

Latitude N 32.98882° Longitude W 103.73695°

NATURE OF RELEASE

Type of Release	Oil	Volume of Release	11 bbls	Volume Recovered	4 bbls
Source of Release	Faulty fitting on the circulating pump	Date and Hour of Occurrence	01/07/2017	Date and Hour of Discovery	
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	Tomas Oberding, Olivia Yu-NMOCD; Amber Groves-SLO		
By Whom?	Kathy Purvis @ BBC International	Date and Hour	01/10/2017 @ 4:04 pm		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*


Describe Cause of Problem and Remedial Action Taken.*

A faulty fitting on the circulating pump caused a spill of 11 bbls of oil. A vacuum truck recovered 4 bbls of oil and the fitting was replaced.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 70' x 40' on location inside the berm. Remediation will be completed in accordance with a remediation plan approved by both NMOCD and the 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 Summers		Approved by Environmental Specialist:	
Title: NM Environmental Advisor		Approval Date:	Expiration Date:
E-mail Address: Casey_Summers@oxy.com		Conditions of Approval:	
Date: 1-23-17 Phone: (575) 513-8289		Attached <input type="checkbox"/>	

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 197107

CONDITIONS

Operator: J R OIL, LTD. CO. P.O. Box 52647 Tulsa, OK 74152	OGRID: 256073
	Action Number: 197107
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	4/5/2023