

Closure Report

Site Description

Site Name:	Shugart 6 Fed Com #1 Battery
Company:	Oxy Permian Ltd.
Legal Description:	NE ¼, Section 6, T18S, R31E
County:	Eddy County, NM
GPS Coordinates:	N 32.77870° W 103.90352°

Release Data

Date of Release:	06/08/2015
Type of Release:	Oil
Source of Release:	Corrosion caused a hole in the north oil tank
Volume of Release:	8 bbls
Volume Recovered:	0 bbls

Remediation Specifications

Remediation Parameters:	Surface scrape and re-seed the spill area covering SP1, SP2, SP3, SP4, and SP5. Excavate the areas around SP6 and SP7 to a depth of 3 feet and install a liner. Take a confirmation sample at SP7 at 5 feet & analyze for BTEX to verify allowable limits are achieved. Backfill the site with clean soil.
Remediation Activities:	March 2016

Plan Sent to OCD:	11/22/2015	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	11/25/2015	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	11/22/2015	Email from Cliff Brunson to Shelly Tucker
BLM Approval of Plan:	11/23/2015	Email from Shelly Tucker to Cliff Brunson

Supporting Documentation

Initial C-141	Signed 07/13/2015
Final C-141	Signed 04/27/2016
Site Diagram	June 2015
Groundwater Plot	325'
TOPO Maps	June 2015
Lab Summary	06/18/2015, 07/09/2015, and 03/01/2016
Lab Analysis	06/18/2015, 07/09/2015, and 03/01/2016
Correspondence	Request and approval of remediation plan via email

Request for Closure

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

Cliff Brunson, President of BBC International Inc.

05/02/2016

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Oxy Permian Ltd.	Contact	Chancey Summers
Address	6 Desta Drive, Midland, TX 79705	Telephone No.	(432) 685-5824
Facility Name	Shugart 6 Fed Com #1 Battery	Facility Type	Battery
Surface Owner	BLM	Mineral Owner	
		API No.	30-15-31313

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	15	24S	29E					Eddy County, NM

Latitude N 32.77870° Longitude W 103.90352°

NATURE OF RELEASE

Type of Release	Oil	Volume of Release	8 bbls	Volume Recovered	0 bbls
Source of Release	Corrosion caused a hole in the north oil tank	Date and Hour of Occurrence	06/08/2015	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher, Heather Patterson- NMOCD; James Amos- BLM		
By Whom?	Kathy Purvis, BBC International	Date and Hour	06/10/2015 @ 9:33 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.*

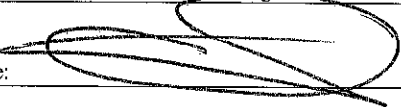
Describe Cause of Problem and Remedial Action Taken.*

Corrosion caused a hole in the north oil tank which leaked 8 bbls of oil onto the ground. No fluids were recovered and the tank was repaired or replaced.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 125' x 75' with the leak both on and off location on the west side. Remediation will be completed in accordance with a remediation plan approved by NMOCD and the BLM.

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

Signature: 	OIL CONSERVATION DIVISION		
Printed Name: Chancey Summers	Approved by Environmental Specialist:		
Title: HES Lead	Approval Date:	Expiration Date:	
E-mail Address: <u>Chancey_Summers@oxy.com</u>	Conditions of Approval:		Attached <input type="checkbox"/>
Date: <u>7-13-15</u> Phone: (432) 685-5824			

* Attach Additional Sheets If Necessary

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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	6 Desta Drive, Midland, TX 79705	Telephone No.	(575) 513-8289
Facility Name	Shugart 6 Fed Com #1 Battery	Facility Type	Battery
Surface Owner	BLM	Mineral Owner	
		API No.	30-15-31313

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	15	24S	29E					Eddy County, NM

Latitude N 32.77870° Longitude W 103.90352°

NATURE OF RELEASE

Type of Release	Oil	Volume of Release	8 bbls	Volume Recovered	0 bbls
Source of Release	Corrosion caused a hole in the north oil tank	Date and Hour of Occurrence	06/08/2015	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher, Heather Patterson- NMOCD; James Amos- BLM		
By Whom?	Kathy Purvis, BBC International	Date and Hour	06/10/2015 @ 9:33 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.*

Corrosion caused a hole in the north oil tank which leaked 8 bbls of oil onto the ground. No fluids were recovered and the tank was repaired or replaced.

Describe Area Affected and Cleanup Action Taken.*

The affected area is approximately 125' x 75' with the leak both on and off location on the west side. Remediation was completed in accordance with a remediation plan approved by Mike Bratcher of NMOCD via email on 11/25/2015 and Shelly Tucker of the BLM via email on 11/23/2015.

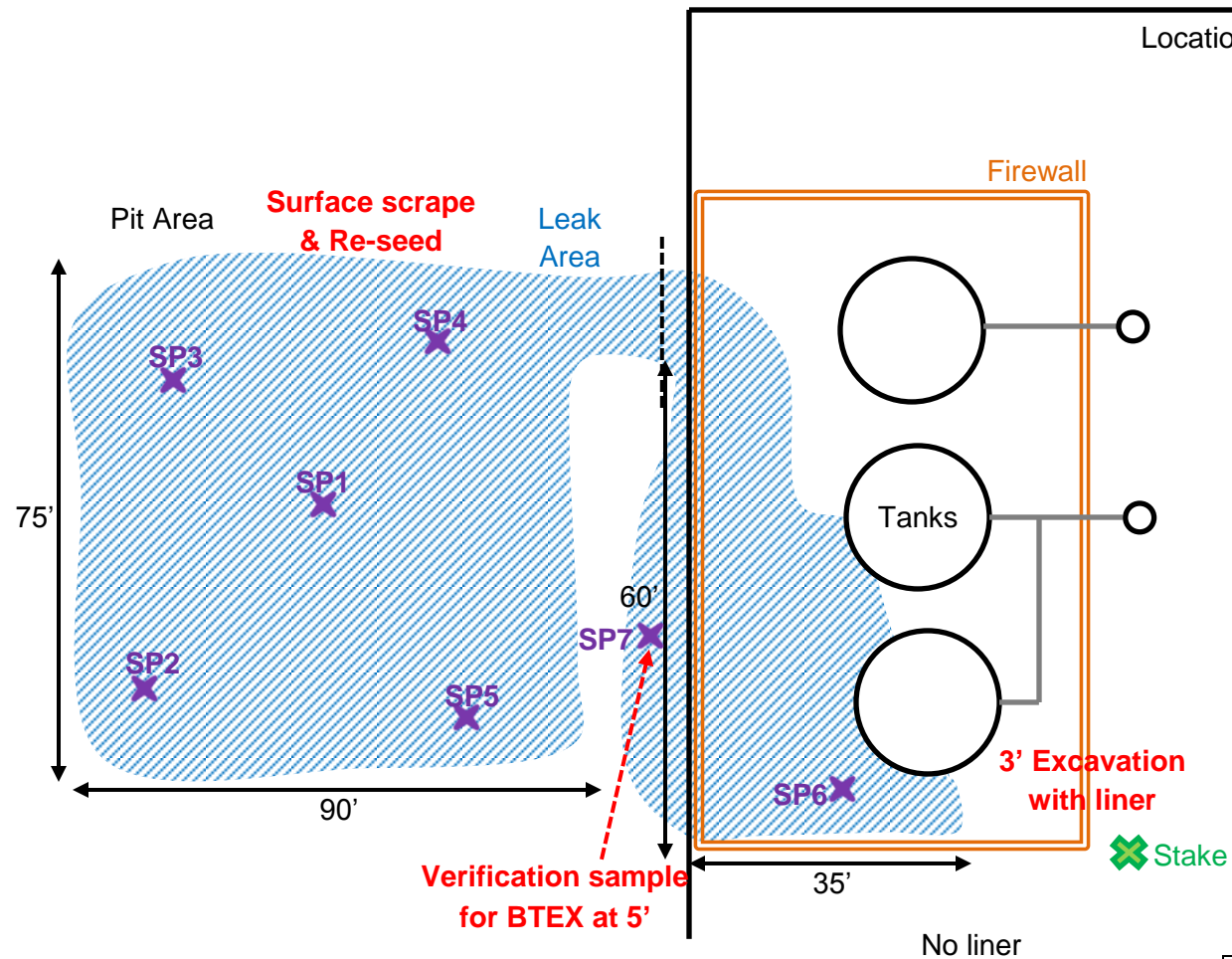
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger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

Signature:				<u>OIL CONSERVATION DIVISION</u>	
Printed Name:	Casey Summers			Approved by Environmental Specialist:	
Title:	NM Environmental Advisor			Approval Date:	Expiration Date:
E-mail Address:	Casey_Summers@oxy.com			Conditions of Approval:	Attached <input type="checkbox"/>
Date:	4-27-16			Phone:	(575) 513-8289

* Attach Additional Sheets If Necessary



Oxy
Shugart 6 Fed Com #1 Battery



NE ¼, Section 6, T18S, R31E
Eddy County, NM
N 32.77870° W 103.90352° at stake
API# 30-015-31313

BBC International, Inc.

Oxy
Shugart 6 Fed Com #1 Btry

Date: 06/25/2015

DRWG by: K. Purvis

NOT TO SCALE

File: Oxy 2015

Groundwater Plot

Oxy Shugart 6 Fed Com #1 Btry

County
Eddy

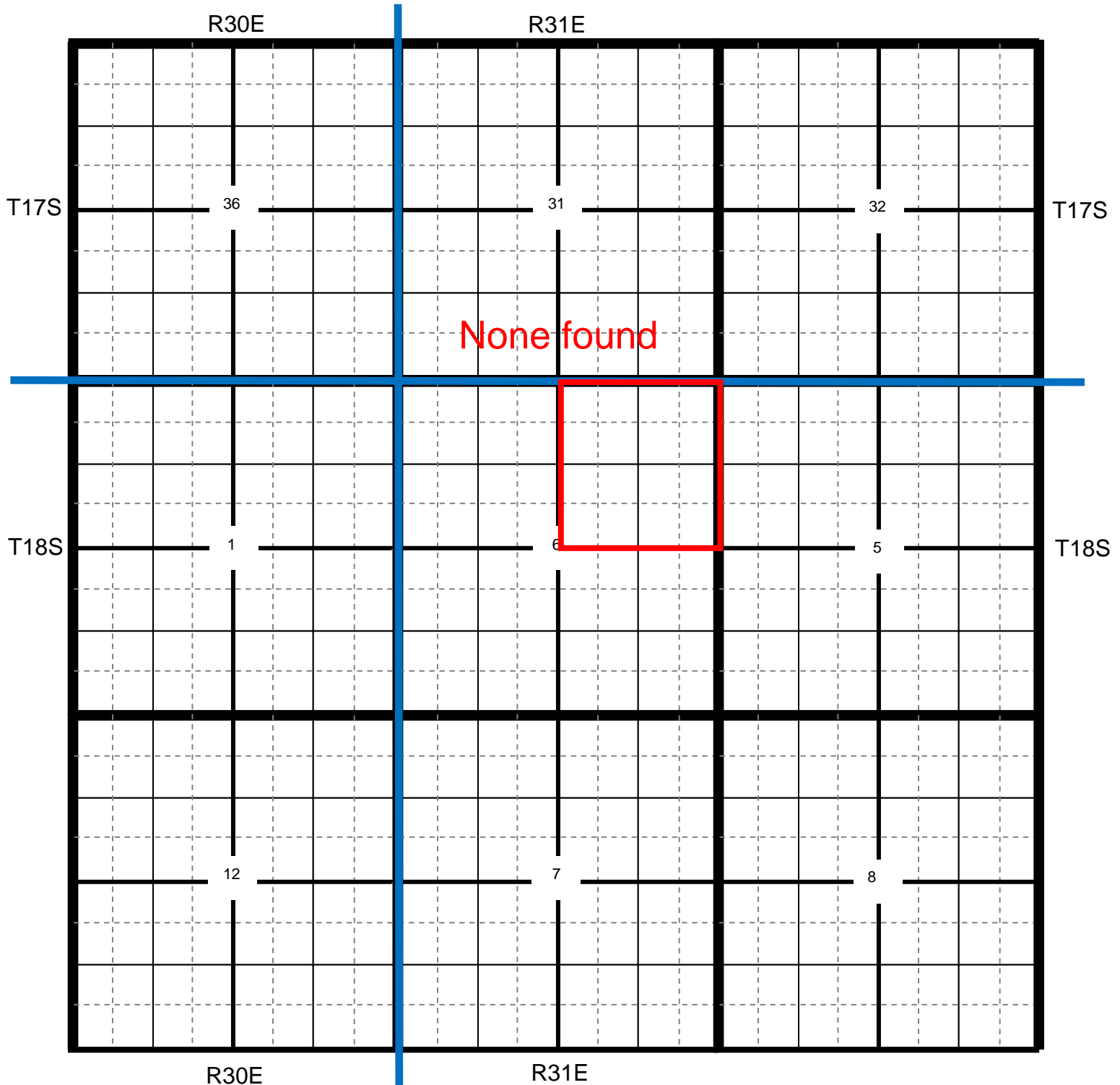
Unit Letter
NE ¼

Section
6

Township
18S

Range
31E

Trend Map 325'



📍 Location

● OCD

● USGS

● SEO

● All Databases

Oxy Shugart 6 Fed Com #1 Btry

County Eddy	Unit Letter NE ¼	Section 6	Township 18S	Range 31E
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Trend Map 325'

1

2

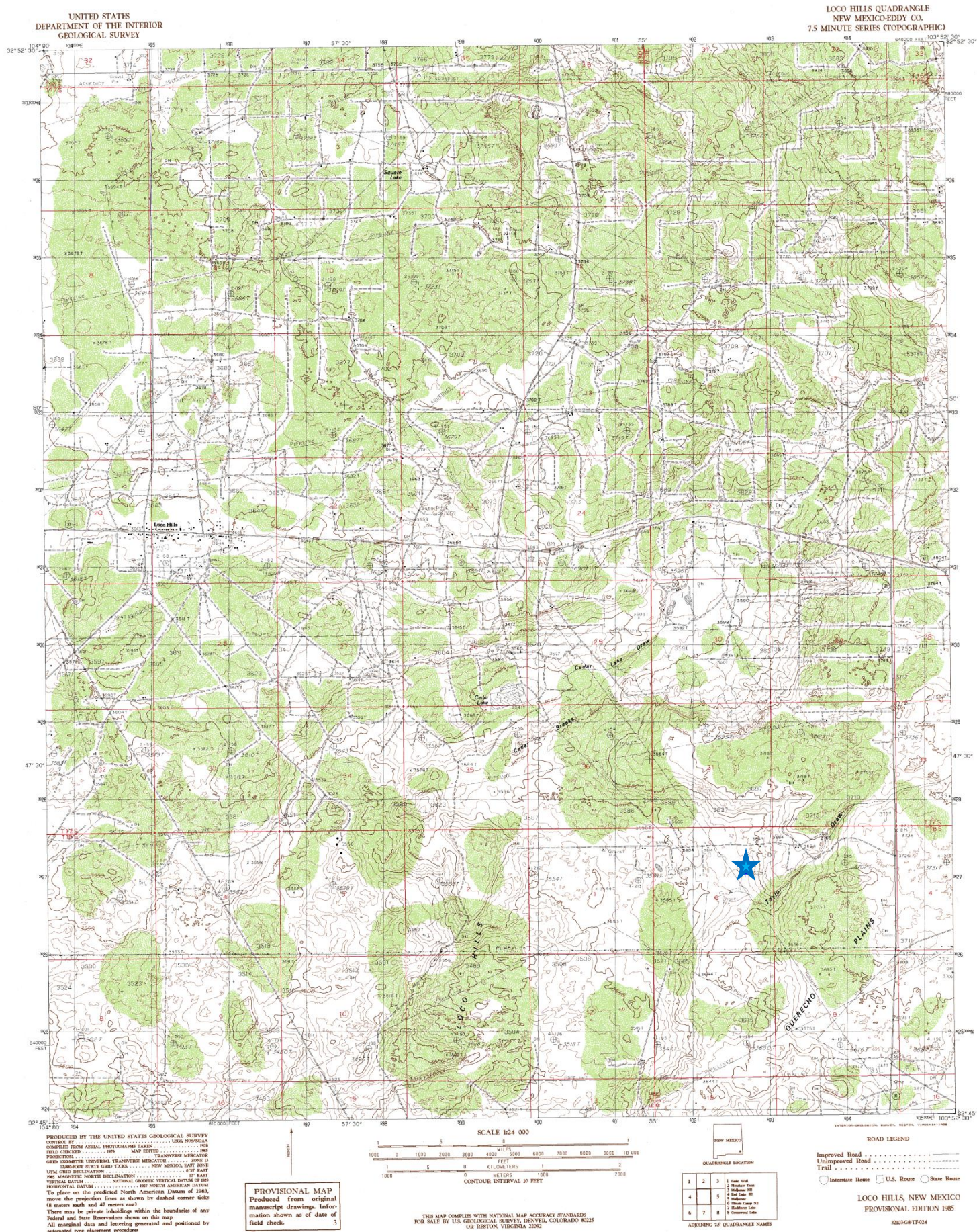
NW/NW Unit Letter D	NE/NW Unit Letter C	NW/NE None found Unit Letter B	NE/NE Unit Letter A
SW/NW Unit Letter E	SE/NW Unit Letter F	SW/NE Unit Letter G	SE/NE Unit Letter H
NW/SW Unit Letter L	NE/SW Unit Letter K	NW/SE Unit Letter J	NE/SE Unit Letter I
SW/SW Unit Letter M	SE/SW Unit Letter N	SW/SE Unit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

3

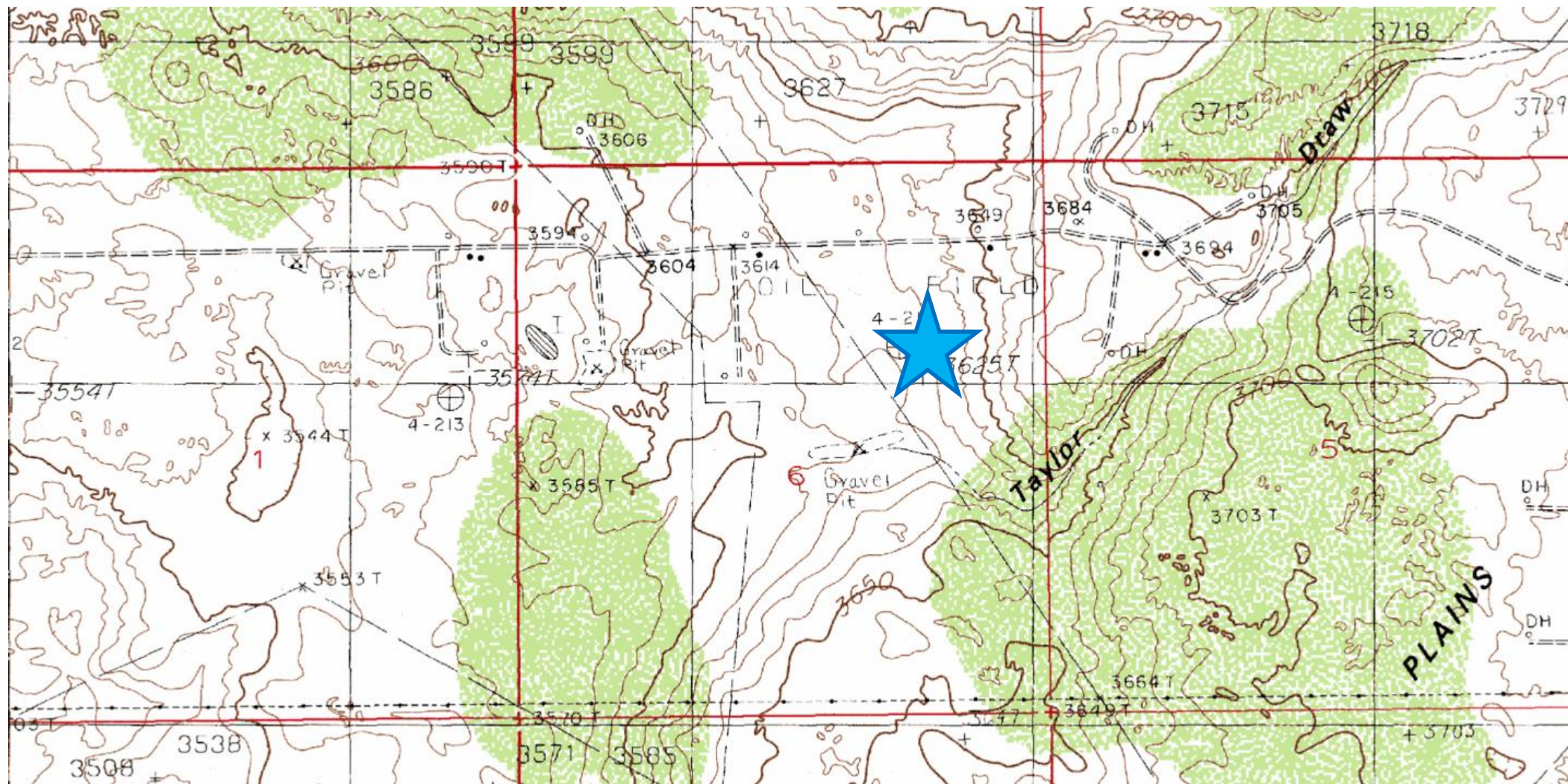
4

Oxy

Shugart 6 Fed Com #1 Btry



Shugart 6 Fed Com #1 Btry



**Laboratory Analytical Results Summary
Shugart 6 Fed Com #1 Battery**

		Sample	SP1 @ 1'	SP1 @ 2'
Analyte	Method	Date	6/18/15	6/18/15
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500Cl-B		3040	3160
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0

		Sample	SP2 @ 1'	SP2 @ 2'
Analyte	Method	Date	6/18/15	6/18/15
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500Cl-B		1880	2240
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0

		Sample	SP3 @ 1'	SP3 @ 2'
Analyte	Method	Date	6/18/15	6/18/15
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500Cl-B		1150	1300
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0

		Sample	SP4 @ 1'	SP4 @ 2'
Analyte	Method	Date	6/18/15	6/18/15
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500Cl-B		1220	1310
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0

		Sample	SP5 @ 1'	SP5 @ 2'
Analyte	Method	Date	6/18/15	6/18/15
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500Cl-B		880	1960
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0

		Sample	SP6 @ 1'	SP6 @ 3'	SP6 @ 5'	SP6 @ 8'	SP6 @ 10'	SP6 @ 13'	SP6 @ 15'
Analyte	Method	Date	6/18/15	6/18/15	7/9/15	7/9/15	7/9/15	7/9/15	7/9/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.500	<1.00	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.248	0.287	1.99	<1.00	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		2.66	3.08	5.2	<1.00	0.103	<0.050	<0.050
Total Xylenes	BTEX 8021B		4.56	3	33.5	<3.00	<0.150	<0.150	0.19
Total BTEX	BTEX 8021B		7.47	6.37	40.6	<6.00	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		3320	3440	1540	1600	784	960	768
GRO	TPH 8015M		342	279	663	1810	19.7	13	<10.0
DRO	TPH 8015M		1070	1180	784	1850	94.3	142	47.2

		Sample	SP7 @ 1'	SP7 @ 3'	SP7 @ 5'	SP7 @ 7'	SP7 @ 9'	SP7 @ 11'	SP7 @ 13'	SP7 @ 15'
Analyte	Method	Date	6/18/15	6/18/15	6/18/15	7/9/15	7/9/15	7/9/15	7/9/15	7/9/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.100	<0.100	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.052	0.067	6.08	0.426	<0.100	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		0.566	0.668	14.3	2.91	0.846	0.071	0.053	<0.050
Total Xylenes	BTEX 8021B		0.378	0.793	99.2	15.3	5.66	0.599	0.501	0.154
Total BTEX	BTEX 8021B		0.996	1.53	120	18.7	6.5	0.67	0.554	<0.300
Chloride	SM4500Cl-B		2480	1200	1550	1340	704	832	768	720
GRO	TPH 8015M		41.1	93.4	1240	275	170	15.3	15.8	<10.0
DRO	TPH 8015M		185	741	1290	551	748	82.3	190	146

**Laboratory Analytical Results Summary
Shugart 6 Fed Com #1 Battery**

Confirmation		Sample	SP7 @ 5'
Analyte	Method	Date	3/1/16
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		0.055
Ethylbenzene	BTEX 8021B		0.157
Total Xylenes	BTEX 8021B		0.958
Total BTEX	BTEX 8021B		1.17



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

July 02, 2015

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SHUGART 6 FED

Enclosed are the results of analyses for samples received by the laboratory on 06/29/15 9:56.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	06/29/2015	Sampling Date:	06/18/2015
Reported:	07/02/2015	Sampling Type:	Soil
Project Name:	SHUGART 6 FED	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP1 @ 1' (H501663-01)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2015	ND	2.29	114	2.00	2.80	
Toluene*	<0.050	0.050	06/29/2015	ND	2.09	105	2.00	4.59	
Ethylbenzene*	<0.050	0.050	06/29/2015	ND	2.02	101	2.00	6.35	
Total Xylenes*	<0.150	0.150	06/29/2015	ND	6.02	100	6.00	7.21	
Total BTX	<0.300	0.300	06/29/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 61-154

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	06/30/2015	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	06/29/2015	ND	170	85.0	200	4.55	
DRO >C10-C28	<10.0	10.0	06/29/2015	ND	197	98.3	200	7.81	

Surrogate: 1-Chlorooctane 111 % 47.2-157

Surrogate: 1-Chlorooctadecane 135 % 52.1-176

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

Analytical Results For:

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

Received: 06/29/2015
Reported: 07/02/2015
Project Name: SHUGART 6 FED
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/18/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP1 @ 2' (H501663-02)

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	06/29/2015	ND	2.29	114	2.00	2.80	
Toluene*	<0.050	0.050	06/29/2015	ND	2.09	105	2.00	4.59	
Ethylbenzene*	<0.050	0.050	06/29/2015	ND	2.02	101	2.00	6.35	
Total Xylenes*	<0.150	0.150	06/29/2015	ND	6.02	100	6.00	7.21	
Total BTEx	<0.300	0.300	06/29/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3160	16.0	06/30/2015	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	06/29/2015	ND	170	85.0	200	4.55	
DRO >C10-C28	<10.0	10.0	06/29/2015	ND	197	98.3	200	7.81	

Surrogate: 1-Chlorooctane 107 % 47.2-157

Surrogate: 1-Chlorooctadecane 132 % 52.1-176

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

Analytical Results For:

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

Received: 06/29/2015
Reported: 07/02/2015
Project Name: SHUGART 6 FED
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/18/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP2 @ 1' (H501663-03)

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	06/29/2015	ND	2.29	114	2.00	2.80	
Toluene*	<0.050	0.050	06/29/2015	ND	2.09	105	2.00	4.59	
Ethylbenzene*	<0.050	0.050	06/29/2015	ND	2.02	101	2.00	6.35	
Total Xylenes*	<0.150	0.150	06/29/2015	ND	6.02	100	6.00	7.21	
Total BTEx	<0.300	0.300	06/29/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	06/30/2015	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	06/29/2015	ND	170	85.0	200	4.55	
DRO >C10-C28	<10.0	10.0	06/29/2015	ND	197	98.3	200	7.81	

Surrogate: 1-Chlorooctane 117 % 47.2-157

Surrogate: 1-Chlorooctadecane 137 % 52.1-176

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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: 06/29/2015
Reported: 07/02/2015
Project Name: SHUGART 6 FED
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/18/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP2 @ 2' (H501663-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2015	ND	2.29	114	2.00	2.80	
Toluene*	<0.050	0.050	06/29/2015	ND	2.09	105	2.00	4.59	
Ethylbenzene*	<0.050	0.050	06/29/2015	ND	2.02	101	2.00	6.35	
Total Xylenes*	<0.150	0.150	06/29/2015	ND	6.02	100	6.00	7.21	
Total BTEx	<0.300	0.300	06/29/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	06/30/2015	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	06/29/2015	ND	170	85.0	200	4.55	
DRO >C10-C28	<10.0	10.0	06/29/2015	ND	197	98.3	200	7.81	

Surrogate: 1-Chlorooctane 101 % 47.2-157

Surrogate: 1-Chlorooctadecane 118 % 52.1-176

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Fax To: (575) 397-0397

Received: 06/29/2015
Reported: 07/02/2015
Project Name: SHUGART 6 FED
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/18/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP3 @ 1' (H501663-05)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2015	ND	2.29	114	2.00	2.80	
Toluene*	<0.050	0.050	06/29/2015	ND	2.09	105	2.00	4.59	
Ethylbenzene*	<0.050	0.050	06/29/2015	ND	2.02	101	2.00	6.35	
Total Xylenes*	<0.150	0.150	06/29/2015	ND	6.02	100	6.00	7.21	
Total BTEx	<0.300	0.300	06/29/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1150	16.0	06/30/2015	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	06/29/2015	ND	170	85.0	200	4.55	
DRO >C10-C28	<10.0	10.0	06/29/2015	ND	197	98.3	200	7.81	

Surrogate: 1-Chlorooctane 111 % 47.2-157

Surrogate: 1-Chlorooctadecane 131 % 52.1-176

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

Received: 06/29/2015
Reported: 07/02/2015
Project Name: SHUGART 6 FED
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/18/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP3 @ 2' (H501663-06)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2015	ND	2.29	114	2.00	2.80	
Toluene*	<0.050	0.050	06/29/2015	ND	2.09	105	2.00	4.59	
Ethylbenzene*	<0.050	0.050	06/29/2015	ND	2.02	101	2.00	6.35	
Total Xylenes*	<0.150	0.150	06/29/2015	ND	6.02	100	6.00	7.21	
Total BTX	<0.300	0.300	06/29/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	06/30/2015	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	06/29/2015	ND	170	85.0	200	4.55	
DRO >C10-C28	<10.0	10.0	06/29/2015	ND	197	98.3	200	7.81	

Surrogate: 1-Chlorooctane 105 % 47.2-157

Surrogate: 1-Chlorooctadecane 123 % 52.1-176

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Received: 06/29/2015
Reported: 07/02/2015
Project Name: SHUGART 6 FED
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/18/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP4 @ 1' (H501663-07)

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	06/29/2015	ND	2.29	114	2.00	2.80	
Toluene*	<0.050	0.050	06/29/2015	ND	2.09	105	2.00	4.59	
Ethylbenzene*	<0.050	0.050	06/29/2015	ND	2.02	101	2.00	6.35	
Total Xylenes*	<0.150	0.150	06/29/2015	ND	6.02	100	6.00	7.21	
Total BTEx	<0.300	0.300	06/29/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	06/30/2015	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	06/29/2015	ND	170	85.0	200	4.55	
DRO >C10-C28	<10.0	10.0	06/29/2015	ND	197	98.3	200	7.81	

Surrogate: 1-Chlorooctane 119 % 47.2-157

Surrogate: 1-Chlorooctadecane 141 % 52.1-176

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 Received: 06/29/2015
 Reported: 07/02/2015
 Project Name: SHUGART 6 FED
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 06/18/2015
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP4 @ 2' (H501663-08)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2015	ND	2.29	114	2.00	2.80	
Toluene*	<0.050	0.050	06/29/2015	ND	2.09	105	2.00	4.59	
Ethylbenzene*	<0.050	0.050	06/29/2015	ND	2.02	101	2.00	6.35	
Total Xylenes*	<0.150	0.150	06/29/2015	ND	6.02	100	6.00	7.21	
Total BTEx	<0.300	0.300	06/29/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1310	16.0	06/30/2015	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	06/29/2015	ND	170	85.0	200	4.55	
DRO >C10-C28	<10.0	10.0	06/29/2015	ND	197	98.3	200	7.81	

Surrogate: 1-Chlorooctane 109 % 47.2-157

Surrogate: 1-Chlorooctadecane 132 % 52.1-176

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Fax To: (575) 397-0397

Received: 06/29/2015
Reported: 07/02/2015
Project Name: SHUGART 6 FED
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/18/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP5 @ 1' (H501663-09)

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	06/29/2015	ND	2.29	114	2.00	2.80	
Toluene*	<0.050	0.050	06/29/2015	ND	2.09	105	2.00	4.59	
Ethylbenzene*	<0.050	0.050	06/29/2015	ND	2.02	101	2.00	6.35	
Total Xylenes*	<0.150	0.150	06/29/2015	ND	6.02	100	6.00	7.21	
Total BTEx	<0.300	0.300	06/29/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	06/30/2015	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	06/29/2015	ND	170	85.0	200	4.55	
DRO >C10-C28	<10.0	10.0	06/29/2015	ND	197	98.3	200	7.81	

Surrogate: 1-Chlorooctane 117 % 47.2-157

Surrogate: 1-Chlorooctadecane 140 % 52.1-176

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Fax To: (575) 397-0397

Received: 06/29/2015
Reported: 07/02/2015
Project Name: SHUGART 6 FED
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/18/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP5 @ 2' (H501663-10)

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	06/29/2015	ND	2.29	114	2.00	2.80	
Toluene*	<0.050	0.050	06/29/2015	ND	2.09	105	2.00	4.59	
Ethylbenzene*	<0.050	0.050	06/29/2015	ND	2.02	101	2.00	6.35	
Total Xylenes*	<0.150	0.150	06/29/2015	ND	6.02	100	6.00	7.21	
Total BTEx	<0.300	0.300	06/29/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1960	16.0	06/30/2015	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	06/29/2015	ND	170	85.0	200	4.55	
DRO >C10-C28	<10.0	10.0	06/29/2015	ND	197	98.3	200	7.81	

Surrogate: 1-Chlorooctane 112 % 47.2-157

Surrogate: 1-Chlorooctadecane 131 % 52.1-176

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

Received: 06/29/2015
Reported: 07/02/2015
Project Name: SHUGART 6 FED
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/18/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP6 @ 1' (H501663-11)

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	06/29/2015	ND	2.29	114	2.00	2.80	
Toluene*	0.248	0.050	06/29/2015	ND	2.09	105	2.00	4.59	
Ethylbenzene*	2.66	0.050	06/29/2015	ND	2.02	101	2.00	6.35	
Total Xylenes*	4.56	0.150	06/29/2015	ND	6.02	100	6.00	7.21	
Total BTEX	7.47	0.300	06/29/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 146 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3320	16.0	06/30/2015	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	342	10.0	06/29/2015	ND	170	85.0	200	4.55	
DRO >C10-C28	1070	10.0	06/29/2015	ND	197	98.3	200	7.81	

Surrogate: 1-Chlorooctane 171 % 47.2-157

Surrogate: 1-Chlorooctadecane 152 % 52.1-176

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Fax To: (575) 397-0397

Received: 06/29/2015
Reported: 07/02/2015
Project Name: SHUGART 6 FED
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/18/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP6 @ 3' (H501663-12)

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	06/29/2015	ND	2.29	114	2.00	2.80	
Toluene*	0.287	0.050	06/29/2015	ND	2.09	105	2.00	4.59	
Ethylbenzene*	3.08	0.050	06/29/2015	ND	2.02	101	2.00	6.35	
Total Xylenes*	3.00	0.150	06/29/2015	ND	6.02	100	6.00	7.21	
Total BTEX	6.37	0.300	06/29/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 146 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3440	16.0	06/30/2015	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	279	10.0	06/29/2015	ND	170	85.0	200	4.55	
DRO >C10-C28	1180	10.0	06/29/2015	ND	197	98.3	200	7.81	

Surrogate: 1-Chlorooctane 158 % 47.2-157

Surrogate: 1-Chlorooctadecane 134 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 06/29/2015
Reported: 07/02/2015
Project Name: SHUGART 6 FED
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/18/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP7 @ 1' (H501663-13)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2015	ND	2.29	114	2.00	2.80	
Toluene*	0.052	0.050	06/29/2015	ND	2.09	105	2.00	4.59	
Ethylbenzene*	0.566	0.050	06/29/2015	ND	2.02	101	2.00	6.35	
Total Xylenes*	0.378	0.150	06/29/2015	ND	6.02	100	6.00	7.21	
Total BTX	0.996	0.300	06/29/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	06/30/2015	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	41.1	10.0	06/29/2015	ND	170	85.0	200	4.55	
DRO >C10-C28	185	10.0	06/29/2015	ND	197	98.3	200	7.81	

Surrogate: 1-Chlorooctane 113 % 47.2-157

Surrogate: 1-Chlorooctadecane 132 % 52.1-176

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

Received: 06/29/2015
Reported: 07/02/2015
Project Name: SHUGART 6 FED
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/18/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP7 @ 3' (H501663-14)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2015	ND	2.29	114	2.00	2.80	
Toluene*	0.067	0.050	06/29/2015	ND	2.09	105	2.00	4.59	
Ethylbenzene*	0.668	0.050	06/29/2015	ND	2.02	101	2.00	6.35	
Total Xylenes*	0.793	0.150	06/29/2015	ND	6.02	100	6.00	7.21	
Total BTX	1.53	0.300	06/29/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	06/30/2015	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	93.4	10.0	06/29/2015	ND	170	85.0	200	4.55	
DRO >C10-C28	741	10.0	06/29/2015	ND	197	98.3	200	7.81	

Surrogate: 1-Chlorooctane 146 % 47.2-157

Surrogate: 1-Chlorooctadecane 146 % 52.1-176

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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: 06/29/2015
Reported: 07/02/2015
Project Name: SHUGART 6 FED
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/18/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: SP7 @ 5' (H501663-15)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	06/30/2015	ND	2.29	114	2.00	2.80	
Toluene*	6.08	0.500	06/30/2015	ND	2.09	105	2.00	4.59	
Ethylbenzene*	14.3	0.500	06/30/2015	ND	2.02	101	2.00	6.35	
Total Xylenes*	99.2	1.50	06/30/2015	ND	6.02	100	6.00	7.21	
Total BTX	120	3.00	06/30/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1550	16.0	06/30/2015	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	1240	10.0	06/29/2015	ND	170	85.0	200	4.55	
DRO >C10-C28	1290	10.0	06/29/2015	ND	197	98.3	200	7.81	

Surrogate: 1-Chlorooctane 153 % 47.2-157

Surrogate: 1-Chlorooctadecane 129 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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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

1 of 2

Company Name: BBC International, Inc.		P.O. #:		BILL TO		ANALYSIS REQUEST																													
Project Manager: Cliff Brunson		Company:																																	
Address: P.O. Box 805		Attn:																																	
City: Hobbs		Address:		SAME																															
Phone #: 575-397-6388		City:																																	
Fax #: 575-397-0397		State:		Zip:																															
Project #:		Project Owner:		OK																															
Project Name: SHUGART 6 FED		State:		Zip:																															
Project Location:		Phone #:																																	
Sampler Name: ROGER HERNANDEZ		Fax #:																																	
FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING																													
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		TPH		BTEX		CL-	
H561663		1. SP 10 @ 1'		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		6-18-15		8:00		✓		✓		✓	
2. SP 2 @ 1'		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		6-18-15		8:05		✓		✓		✓	
3. SP 2 @ 1'		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		6-18-15		8:32		✓		✓		✓	
4. SP 2 @ 1'		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		6-18-15		8:48		✓		✓		✓	
5. SP 3 @ 1'		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		6-18-15		9:25		✓		✓		✓	
6. SP 4 @ 1'		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		6-18-15		9:40		✓		✓		✓	
7. SP 4 @ 1'		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		6-18-15		10:33		✓		✓		✓	
8. SP 5 @ 1'		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		6-18-15		11:05		✓		✓		✓	
9. SP 5 @ 1'		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		6-18-15		11:20		✓		✓		✓	
10. SP 5 @ 1'		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		6-18-15		11:20		✓		✓		✓	
Relinquished By: [Signature]		Date: 6-29-15		Time: 9:56		Received By: Judy Bruce		Date: 6-29-15		Time: 9:56		Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: [Signature]		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		Add'l Phone #: [Blank]		Add'l Fax #: [Blank]		REMARKS:											
Delivered By: (Circle One)		Sampler - UPS - Bus - Other:		7.0c		#54																													

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

ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.						BILL TO		ANALYSIS REQUEST																																					
Project Manager: Cliff Brunson						P.O. #:																																							
Address: P.O. Box 805						Company:																																							
City: Hobbs						Attn:																																							
State: NM Zip: 88241						Address:		SAME																																					
Phone #: 575-397-6388 Fax #: 575-397-0397						City:																																							
Project #:						State:		Zip:																																					
Project Name: Shugart & FEO						Phone #:																																							
Project Location:						Fax #:																																							
Sampler Name: Roger Hernandez						FOR LAB USE ONLY																																							
Lab I.D. Sample I.D.						(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING																															
						GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME																			
H501443						SP 6 @ 1'		CL		✓		✓		✓		✓		✓		✓		✓		6-18-15		1152		✓		✓		TPH		BTEX		CL-									
12						SP 7 @ 1'		CL		✓		✓		✓		✓		✓		✓		✓		6-18-15		1119		✓		✓															
13						SP 7 @ 1'		CL		✓		✓		✓		✓		✓		✓		✓		6-18-15		1110		✓		✓															
14						CS		CL		✓		✓		✓		✓		✓		✓		✓		6-18-15		1338		✓		✓															
15						CS		CL		✓		✓		✓		✓		✓		✓		✓		6-18-15		1210		✓		✓															
								</																																					

July 17, 2015

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SHUGART 6 FED COM #1 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/13/15 9:06.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/13/2015	Sampling Date:	07/09/2015
Reported:	07/17/2015	Sampling Type:	Soil
Project Name:	SHUGART 6 FED COM #1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP6 @ 5' (H501773-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	07/16/2015	ND	2.35	117	2.00	1.01	
Toluene*	1.99	0.500	07/16/2015	ND	2.09	104	2.00	0.750	
Ethylbenzene*	5.20	0.500	07/16/2015	ND	1.97	98.6	2.00	0.374	
Total Xylenes*	33.5	1.50	07/16/2015	ND	5.88	98.0	6.00	0.525	
Total BTX	40.6	3.00	07/16/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1540	16.0	07/16/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	663	10.0	07/14/2015	ND	184	92.2	200	0.512	
DRO >C10-C28	784	10.0	07/14/2015	ND	187	93.5	200	2.63	

Surrogate: 1-Chlorooctane 125 % 47.2-157

Surrogate: 1-Chlorooctadecane 87.6 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 07/13/2015
Reported: 07/17/2015
Project Name: SHUGART 6 FED COM #1 BATTERY
Project Number: NONE GIVEN
Project Location: EDDY COUNTY, NM

Sampling Date: 07/09/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP6 @ 8' (H501773-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	07/16/2015	ND	2.35	117	2.00	1.01	
Toluene*	<1.00	1.00	07/16/2015	ND	2.09	104	2.00	0.750	
Ethylbenzene*	<1.00	1.00	07/16/2015	ND	1.97	98.6	2.00	0.374	
Total Xylenes*	<3.00	3.00	07/16/2015	ND	5.88	98.0	6.00	0.525	
Total BTEX	<6.00	6.00	07/16/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	07/16/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1810	10.0	07/14/2015	ND	184	92.2	200	0.512	
DRO >C10-C28	1850	10.0	07/14/2015	ND	187	93.5	200	2.63	

Surrogate: 1-Chlorooctane 131 % 47.2-157

Surrogate: 1-Chlorooctadecane 85.9 % 52.1-176

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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:	07/13/2015	Sampling Date:	07/09/2015
Reported:	07/17/2015	Sampling Type:	Soil
Project Name:	SHUGART 6 FED COM #1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP6 @ 10' (H501773-03)

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	07/16/2015	ND	2.35	117	2.00	1.01	
Toluene*	<0.050	0.050	07/16/2015	ND	2.09	104	2.00	0.750	
Ethylbenzene*	0.103	0.050	07/16/2015	ND	1.97	98.6	2.00	0.374	
Total Xylenes*	<0.150	0.150	07/16/2015	ND	5.88	98.0	6.00	0.525	
Total BTEx	<0.300	0.300	07/16/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 131 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	07/16/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	19.7	10.0	07/15/2015	ND	184	92.2	200	0.512	
DRO >C10-C28	94.3	10.0	07/15/2015	ND	187	93.5	200	2.63	

Surrogate: 1-Chlorooctane 90.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 93.1 % 52.1-176

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/13/2015	Sampling Date:	07/09/2015
Reported:	07/17/2015	Sampling Type:	Soil
Project Name:	SHUGART 6 FED COM #1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP6 @ 13' (H501773-04)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2015	ND	2.35	117	2.00	1.01	
Toluene*	<0.050	0.050	07/16/2015	ND	2.09	104	2.00	0.750	
Ethylbenzene*	<0.050	0.050	07/16/2015	ND	1.97	98.6	2.00	0.374	
Total Xylenes*	<0.150	0.150	07/16/2015	ND	5.88	98.0	6.00	0.525	
Total BTX	<0.300	0.300	07/16/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	07/16/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	13.0	10.0	07/15/2015	ND	184	92.2	200	0.512	
DRO >C10-C28	142	10.0	07/15/2015	ND	187	93.5	200	2.63	

Surrogate: 1-Chlorooctane 87.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 87.4 % 52.1-176

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

Received:	07/13/2015	Sampling Date:	07/09/2015
Reported:	07/17/2015	Sampling Type:	Soil
Project Name:	SHUGART 6 FED COM #1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP6 @ 15' (H501773-05)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2015	ND	2.02	101	2.00	0.122		
Toluene*	<0.050	0.050	07/16/2015	ND	2.19	110	2.00	2.86		
Ethylbenzene*	<0.050	0.050	07/16/2015	ND	2.10	105	2.00	6.40		
Total Xylenes*	0.190	0.150	07/16/2015	ND	6.81	114	6.00	10.5		
Total BTEx	<0.300	0.300	07/16/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	768	16.0	07/16/2015	ND	432	108	400	3.77		

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	07/15/2015	ND	184	92.2	200	0.512	
DRO >C10-C28	47.2	10.0	07/15/2015	ND	187	93.5	200	2.63	

Surrogate: 1-Chlorooctane 81.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 77.1 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/13/2015	Sampling Date:	07/09/2015
Reported:	07/17/2015	Sampling Type:	Soil
Project Name:	SHUGART 6 FED COM #1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY,NM		

Sample ID: SP7 @ 7' (H501773-06)

BTEx 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	07/16/2015	ND	2.02	101	2.00	0.122	
Toluene*	0.426	0.100	07/16/2015	ND	2.19	110	2.00	2.86	
Ethylbenzene*	2.91	0.100	07/16/2015	ND	2.10	105	2.00	6.40	
Total Xylenes*	15.3	0.300	07/16/2015	ND	6.81	114	6.00	10.5	
Total BTEX	18.7	0.600	07/16/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 377 % 85.6-137

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1340	16.0	07/16/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	275	10.0	07/15/2015	ND	184	92.2	200	0.512	
DRO >C10-C28	551	10.0	07/15/2015	ND	187	93.5	200	2.63	

Surrogate: 1-Chlorooctane 118 % 47.2-157

Surrogate: 1-Chlorooctadecane 93.5 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/13/2015	Sampling Date:	07/09/2015
Reported:	07/17/2015	Sampling Type:	Soil
Project Name:	SHUGART 6 FED COM #1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY,NM		

Sample ID: SP7 @ 9' (H501773-07)

BTEx 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	07/16/2015	ND	2.02	101	2.00	0.122	
Toluene*	<0.100	0.100	07/16/2015	ND	2.19	110	2.00	2.86	
Ethylbenzene*	0.846	0.100	07/16/2015	ND	2.10	105	2.00	6.40	
Total Xylenes*	5.66	0.300	07/16/2015	ND	6.81	114	6.00	10.5	
Total BTEX	6.50	0.600	07/16/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 295 % 85.6-137

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	07/16/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	170	10.0	07/15/2015	ND	184	92.2	200	0.512	
DRO >C10-C28	748	10.0	07/15/2015	ND	187	93.5	200	2.63	

Surrogate: 1-Chlorooctane 117 % 47.2-157

Surrogate: 1-Chlorooctadecane 86.8 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/13/2015	Sampling Date:	07/09/2015
Reported:	07/17/2015	Sampling Type:	Soil
Project Name:	SHUGART 6 FED COM #1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY,NM		

Sample ID: SP7 @ 11' (H501773-08)

BTX 8021B		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/16/2015	ND	2.02	101	2.00	0.122		
Toluene*	<0.050	0.050	07/16/2015	ND	2.19	110	2.00	2.86		
Ethylbenzene*	0.071	0.050	07/16/2015	ND	2.10	105	2.00	6.40		
Total Xylenes*	0.599	0.150	07/16/2015	ND	6.81	114	6.00	10.5		
Total BTX	0.670	0.300	07/16/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 168 % 85.6-137

Chloride, SM4500CI-B			mg/kg					Analyzed By: AP			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	832	16.0	07/16/2015	ND	432	108	400	3.77			

TPH 8015M			mg/kg					Analyzed By: MS			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	15.3	10.0	07/15/2015	ND	184	92.2	200	0.512			
DRO >C10-C28	82.3	10.0	07/15/2015	ND	187	93.5	200	2.63			

Surrogate: 1-Chlorooctane 87.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 71.2 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/13/2015	Sampling Date:	07/09/2015
Reported:	07/17/2015	Sampling Type:	Soil
Project Name:	SHUGART 6 FED COM #1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP7 @ 13' (H501773-09)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2015	ND	2.02	101	2.00	0.122	
Toluene*	<0.050	0.050	07/16/2015	ND	2.19	110	2.00	2.86	
Ethylbenzene*	0.053	0.050	07/16/2015	ND	2.10	105	2.00	6.40	
Total Xylenes*	0.501	0.150	07/16/2015	ND	6.81	114	6.00	10.5	
Total BTX	0.554	0.300	07/16/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 165 % 85.6-137

Chloride, SM4500CI-B			mg/kg					Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	07/17/2015	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	15.8	10.0	07/15/2015	ND	184	92.2	200	0.512	
DRO >C10-C28	190	10.0	07/15/2015	ND	187	93.5	200	2.63	

Surrogate: 1-Chlorooctane 95.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 95.5 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/13/2015	Sampling Date:	07/09/2015
Reported:	07/17/2015	Sampling Type:	Soil
Project Name:	SHUGART 6 FED COM #1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: SP7 @ 15' (H501773-10)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2015	ND	2.02	101	2.00	0.122	
Toluene*	<0.050	0.050	07/16/2015	ND	2.19	110	2.00	2.86	
Ethylbenzene*	<0.050	0.050	07/16/2015	ND	2.10	105	2.00	6.40	
Total Xylenes*	0.154	0.150	07/16/2015	ND	6.81	114	6.00	10.5	
Total BTX	<0.300	0.300	07/16/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 85.6-137

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	07/17/2015	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	07/15/2015	ND	184	92.2	200	0.512	
DRO >C10-C28	146	10.0	07/15/2015	ND	187	93.5	200	2.63	

Surrogate: 1-Chlorooctane 88.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 66.4 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

March 04, 2016

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SHUGART 6 FED

Enclosed are the results of analyses for samples received by the laboratory on 03/02/16 11:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 03/02/2016
Reported: 03/04/2016
Project Name: SHUGART 6 FED
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 03/01/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 7 @ 5' (H600465-01)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/03/2016	ND	2.04	102	2.00	0.850	
Toluene*	0.055	0.050	03/03/2016	ND	2.00	99.8	2.00	0.844	
Ethylbenzene*	0.157	0.050	03/03/2016	ND	1.79	89.5	2.00	0.0755	
Total Xylenes*	0.958	0.150	03/03/2016	ND	5.43	90.5	6.00	0.845	
Total BTEX	1.17	0.300	03/03/2016	ND					

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

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

10/1

Company Name: BBC International, Inc.

Project Manager: Cliff Brunson

Address: P.O. Box 805

City: Hobbs

Phone #: 575-397-6388

Project #:

Project Name:

Project Location:

Sampler Name:

FOR LAB USE ONLY

P.O. #:

Company:

Attn: *Cliff Brunson*

Address:

City:

State:

Phone #:

Fax #:

Zip:

Lab I.D.

Sample I.D.

Hoechst

SP 705

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

3/16 2:30

BTEX

PLEASE NOTE: Ardinal and Damages. Cardinal's liability and client's exclusive remedy for any claim arising from this contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including 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:

Date:

3-2-16

Received By:

Date:

3-2-16

Time:

11:30

Phone Result:

☐ Yes ☐ No

Fax Result:

☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

REMARKS:

Relinquished By:

Date:

3-2-16

Received By:

Date:

3-2-16

Time:

11:30

Phone Result:

☐ Yes ☐ No

Fax Result:

☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

REMARKS:

Delivered By: (Circle One)

Date:

3-2-16

Received By:

Date:

3-2-16

Time:

11:30

Phone Result:

☐ Yes ☐ No

Fax Result:

☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

REMARKS:

Sampler - UPS - Bus - Other:

Date:

3-2-16

Received By:

Date:

3-2-16

Time:

11:30

Phone Result:

☐ Yes ☐ No

Fax Result:

☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

REMARKS:

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

#54

Kathy Purvis

From: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>
Sent: Wednesday, November 25, 2015 10:23 AM
To: Cliff Brunson; Shelly Tucker
Cc: Patterson, Heather, EMNRD; Dusty Wilson; Jennifer_Duarte@oxy.com; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: RE: OXY Shugart 6 Fed Com #1 Battery - Remediation Plan

RE: OXY USA * Shugart 6 Fed Com 1 * 30-015-31313
2RP-3123 * Date of release: 6/8/2015

Cliff,

Your proposal for remediation of the above referenced release is approved. Additional excavation may be required in the area identified as SP 7, dependent on the confirmation sample. OCD notes BLM has approved this proposal.

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

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

Mike Bratcher
NMOCD District 2
811 S. First Street
Artesia, NM 88210
O: 575-748-1283 X108
C: 575-626-0857
F: 575-748-9720

From: Cliff Brunson [<mailto:cbrunson@bbcinternational.com>]
Sent: Sunday, November 22, 2015 5:58 PM
To: Bratcher, Mike, EMNRD; Shelly Tucker
Cc: Patterson, Heather, EMNRD; Dusty Wilson; Jennifer_Duarte@oxy.com; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: OXY Shugart 6 Fed Com #1 Battery - Remediation Plan

Mike and Shelly,

I have attached the remediation materials that we used in our discussions about the remediation plan for the Oxy Shugart 6 Fed Com #1 Battery. Both of you have now verbally agreed to this plan as depicted on the site diagram.

If you would please reply via email with your approval and concurrence of this plan, it would be greatly appreciated. If you have any questions, please let me know.

Thanks, Cliff

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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Version: 2015.0.6176 / Virus Database: 4460/11063 - Release Date: 11/25/15

Kathy Purvis

From: Tucker, Shelly <stucker@blm.gov>
Sent: Monday, November 23, 2015 10:41 AM
To: Cliff Brunson
Cc: Mike Bratcher; Heather Patterson; Dusty Wilson; Jennifer_Duarte@oxy.com; Ken Swinney; Jennifer Gilkey; Kathy Purvis
Subject: Re: OXY Shugart 6 Fed Com #1 Battery - Remediation Plan

BLM accepts/approves the work plan as submitted.

If you have any questions or concerns, please do not hesitate to contact me.

Sincerely,

Shelly J Tucker

Environmental Protection Specialist
Bureau of Land Management

620 E. Greene St
Carlsbad, NM 88220

575.234.5905 - Direct
575.361.0084 - Cellular

stucker@blm.gov



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

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On Sun, Nov 22, 2015 at 5:58 PM, Cliff Brunson <cbrunson@bbcinternational.com> wrote:

Mike and Shelly,

I have attached the remediation materials that we used in our discussions about the remediation plan for the Oxy Shugart 6 Fed Com #1 Battery. Both of you have now verbally agreed to this plan as depicted on the site diagram.

If you would please reply via email with your approval and concurrence of this plan, it would be greatly appreciated. If you have any questions, please let me know.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS

President

BBC International, Inc.

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Mailing Address:

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Version: 2015.0.6176 / Virus Database: 4460/11047 - Release Date: 11/22/15

