



OXY – SHUGART 6 FED COM #1 BATTERY

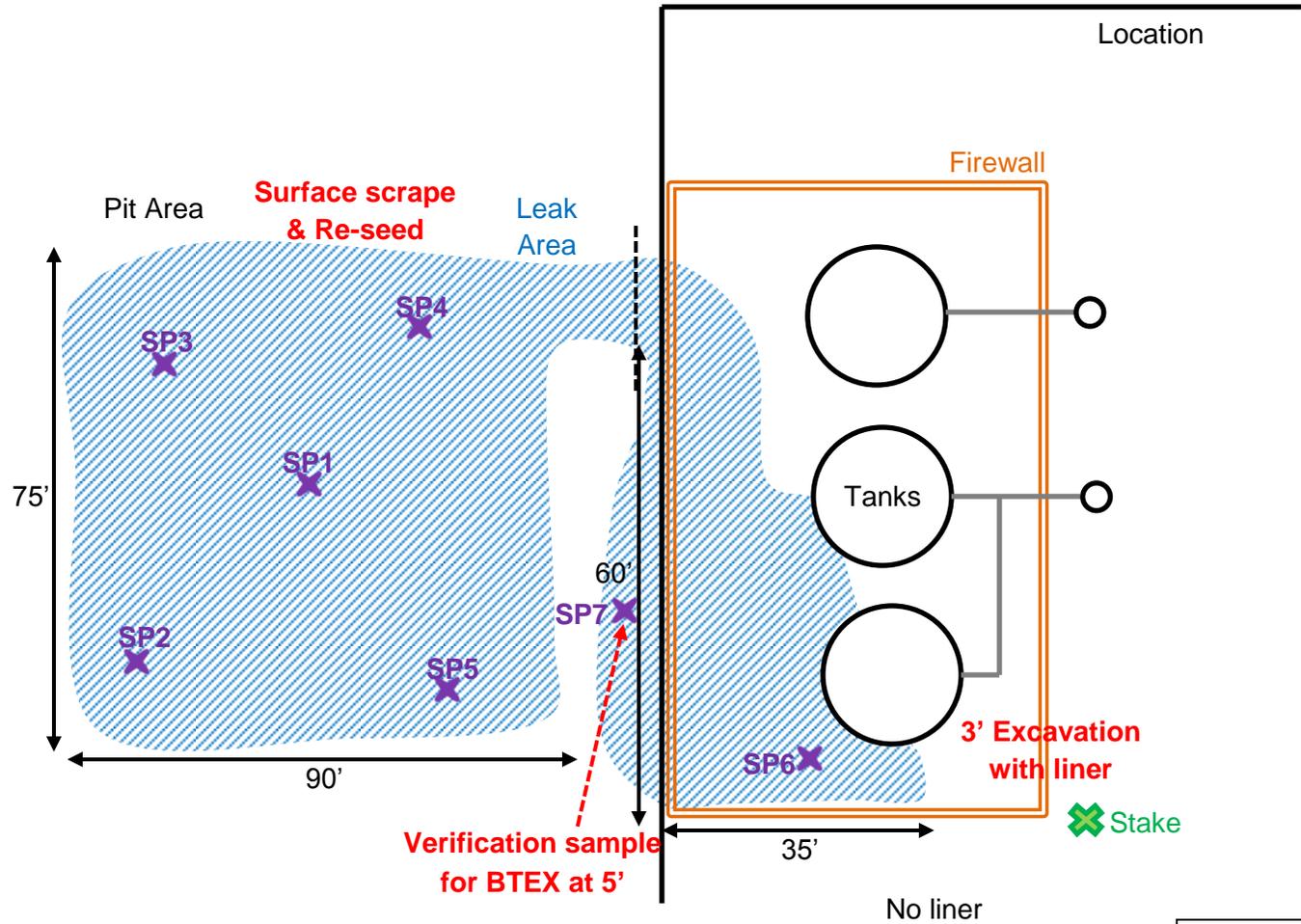
REMEDIATION PLAN

Oxy will excavate the spill area as depicted on the following site diagram. The spill area covering SP1 – SP5 will be surface scraped and re-seeded. The area covering SP6 and SP7 will be excavated to a depth of 3 feet with a liner then installed. A verification sample will be taken at SP7 at 5 feet and analyzed for BTEX to verify allowable limits are achieved. The site will then be backfilled with clean soil.

All excavated materials will be disposed of at an NMOCD-approved disposal facility.



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

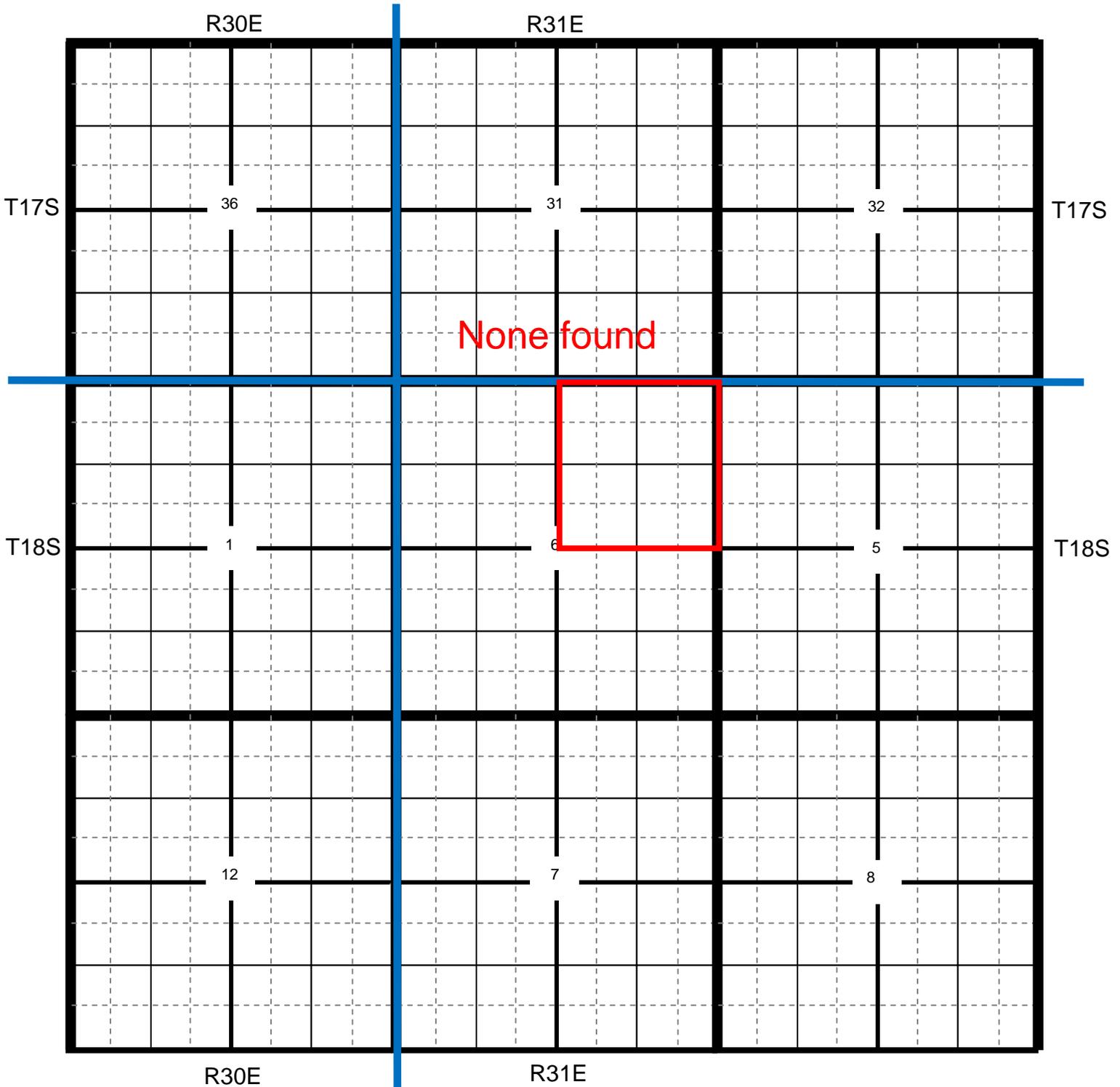
Unit Letter
NE ¼

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

Laboratory Analytical Results Summary
Shugart 6 Fed Com #1 Battery

Analyte	Method	Sample	SP1 @ 1'	SP1 @ 2'
		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

Analyte	Method	Sample	SP2 @ 1'	SP2 @ 2'
		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

Analyte	Method	Sample	SP3 @ 1'	SP3 @ 2'
		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

Analyte	Method	Sample	SP4 @ 1'	SP4 @ 2'
		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

Analyte	Method	Sample	SP5 @ 1'	SP5 @ 2'
		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

Analyte	Method	Sample	SP6 @ 1'	SP6 @ 3'	SP6 @ 5'	SP6 @ 8'	SP6 @ 10'	SP6 @ 13'	SP6 @ 15'
		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

Analyte	Method	Sample	SP7 @ 1'	SP7 @ 3'	SP7 @ 5'	SP7 @ 7'	SP7 @ 9'	SP7 @ 11'	SP7 @ 13'	SP7 @ 15'
		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



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 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)

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) 95.5 % 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

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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	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 @ 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, SM4500Cl-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

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 Cliff Brunson
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 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: 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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 Cliff Brunson
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 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: 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, SM4500Cl-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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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: 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, SM4500Cl-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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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: SP3 @ 2' (H501663-06)

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	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, SM4500Cl-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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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: 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, SM4500Cl-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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 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: 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, SM4500Cl-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	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: 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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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: 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, SM4500Cl-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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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: 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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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: 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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 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: SP7 @ 1' (H501663-13)

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	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 BTEX	0.996	0.300	06/29/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	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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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: SP7 @ 3' (H501663-14)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTEX	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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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: SP7 @ 5' (H501663-15)

BTEX 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 BTEX	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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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



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

1092

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

BILL TO
P.O. #:
Company:
Attn:
Address:
City:
State:
Zip:
Phone #:
Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	TPH	BTEX	CL
H561663	1. SP1 @ 1'						6-18-15	8:00			
	2. SP2 @ 1'						6-18-15	8:05			
	3. SP2 @ 1'						6-18-15	8:32			
	4. SP3 @ 1'						6-18-15	8:48			
	5. SP3 @ 1'						6-18-15	9:25			
	6. SP4 @ 1'						6-18-15	9:40			
	7. SP4 @ 1'						6-18-15	10:15			
	8. SP4 @ 1'						6-18-15	10:33			
	9. SP5 @ 1'						6-18-15	11:05			
	10. SP5 @ 1'						6-18-15	11:20			

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Relinquished By: *[Signature]* Date: 6-29-15 Time:
 Received By: *[Signature]* Date: 6-29-15 Time:
 Relinquished By: *[Signature]* Date: 6-29-15 Time: 9:56
 Received By: *[Signature]* Date: 6-29-15 Time: 9:56

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other:
 Sample Condition:
 Cool Intact
 Yes No
 Checked By: *[Signature]* (Initials)
 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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

282

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc. P.O. #:
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: SAME
Project #: Project Owner: OXY City: State: Zip:
Project Name: SHUGAN T & FED Phone #:
Project Location: State: Zip:
Sampler Name: RAJEL HERNANDEZ Fax #:
FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	DATE	TIME	TPH	BTEX	CL-
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :						
H501443	SP6 @ 1'		1							6-18-15	1152				
	12 SP7 @ 3'		1							6-18-15	1219				
	13 SP7 @ 1'		1							6-18-15	1110				
	14 C3'		1							6-18-15	1388				
	15 C5'		1							6-18-15	910				

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Relinquished By: [Signature] Date: 6-19-15 Received By: Judy Garcia Date: 6-29-15
Time: 9:56 AM

Delivered By: (Circle One) UPS - Bus - Other: 7.0c

Sample Condition: Cool Intact Yes No

CHECKED BY: [Signature] (Initials) [Signature]

Phone Result: Yes No Add'l Phone #:
Fax Result: Yes No Add'l Fax #:
REMARKS:

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

#54



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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive 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:	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)

BTEX 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 BTEX	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	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 @ 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, SM4500Cl-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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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)

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*	<0.050	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 BTEX	<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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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 @ 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, SM4500CI-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

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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: SP7 @ 11' (H501773-08)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	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 BTEX	0.670	0.300	07/16/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 168 % 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	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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*=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: SP7 @ 13' (H501773-09)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	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 BTEX	0.554	0.300	07/16/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 165 % 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	07/17/2015	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)

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*	0.154	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) 126 % 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	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 SM450Cl-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

1081

Company Name: BBC International, Inc. **BILL TO** ANALYSIS REQUEST
 Project Manager: Cliff Brunson
 Address: P.O. Box 805
 City: Hobbs State: NM Zip: 88241
 Phone #: 575-397-6388 Fax #: 575-397-0397
 Project #: Project Owner: Oxy
 Project Name: Shugart 6 Fed Com #1 Battery
 Project Location: Eddy County, NM
 Sampler Name: Roger Hernandez
 P.O. #: Company:
 Attn: Address:
 City: State: Zip:
 Phone #: Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	BTEX	CI	TPH
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :							
#501778	SP6 @ 5'	61								7/9/15	12:45 PM	✓	✓	✓	
	SP6 @ 8'	61								7/9/15	1:52 PM	✓	✓	✓	
	SP6 @ 10'	61								7/9/15	2:09 PM	✓	✓	✓	
	SP6 @ 13'	61								7/9/15	2:35 PM	✓	✓	✓	
	SP6 @ 15'	61								7/9/15	3:00 PM	✓	✓	✓	
	SP7 @ 7'	61								7/9/15	8:55 AM	✓	✓	✓	
	SP7 @ 9'	61								7/9/15	9:28 AM	✓	✓	✓	
	SP7 @ 11'	61								7/9/15	9:58 AM	✓	✓	✓	
	SP7 @ 13'	61								7/9/15	10:32 AM	✓	✓	✓	
	SP7 @ 15'	61								7/9/15	11:05 AM	✓	✓	✓	

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Relinquished By: *[Signature]* Date: 7/13/15 Received By: *[Signature]* Date: 7/13/15
 Relinquished By: *[Signature]* Date: 7/13/15 Received By: *[Signature]* Date: 7/13/15
 Relinquished By: *[Signature]* Date: 7/13/15 Received By: *[Signature]* Date: 7/13/15
 Delivered By: (Circle One) *[Signature]* Sample Condition: Cool Impact Yes No
 Sampler - UPS - Bus - Other: *[Signature]* 5.4c CHECKED BY: *[Signature]* (Initials) *[Signature]*

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

#54

District I
1625 N. French Dr., Hobbs, NM 88240
District II
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:	<u>OIL CONSERVATION DIVISION</u>		
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