

# State 35 Release

1RP-4540

## Legend

-  Background Samples
-  Bore Sample Points
-  Release Area

North

SP5

Sp4

West

Sp3

East

Sp1

Sp2

$N32^{\circ}47'6.72''$

Google Earth

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300 ft

**Laboratory Analytical Results Summary  
Mack Energy, State 35**

Analyte	Method	Sample	SP1 @ 2'	SP1 @ 7'	SP1 @ 12'	SP1 @ 17'
		Date	5/24/17	5/24/17	5/24/17	5/24/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		608	576	288	192
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

Analyte	Method	Sample	SP2 @ 2'	SP2 @ 7'	SP2 @ 12'	SP2 @ 17'
		Date	5/24/17	5/24/17	5/24/17	5/24/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		336	688	192	368
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		160	<10.0	<10.0	10.5

Analyte	Method	Sample	SP3 @ 1'	SP3 @ 6'	SP3 @ 11'
		Date	5/24/17	5/24/17	5/24/17
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		64	400	368
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0

Analyte	Method	Sample	SP4 @ 1'	SP4 @ 7'	SP4 @ 12'
		Date	5/24/17	5/24/17	5/24/17
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		48	224	384
GRO	TPH 8015M		<50.0	<10.0	<10.0
DRO	TPH 8015M		194	<10.0	<10.0

Analyte	Method	Sample	SP5 @ 1'	SP5 @ 6'	SP5 @ 11'
		Date	5/24/17	5/24/17	5/24/17
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.07	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500Cl-B		64	16	32
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0

Analyte	Method	Sample	NORTH @ 1'
		Date	2/8/17
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		32
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

Analyte	Method	Sample	SOUTH @ 1'
		Date	2/8/17
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		32
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

Analyte	Method	Sample	EAST @ 1'
		Date	2/8/17
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenz	BTEX 8021B		<0.050
Total Xyle	BTEX 8021B		<0.150
Total BTE	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		32
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

Analyte	Method	Sample	WEST @ 1'
		Date	2/8/17
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenz	BTEX 8021B		<0.050
Total Xyle	BTEX 8021B		<0.150
Total BTE	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		<16.0
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		61.1

May 31, 2017

Cliff Brunson  
BBC International, Inc.  
P.O. Box 805  
Hobbs, NM 88241

RE: STATE 35

Enclosed are the results of analyses for samples received by the laboratory on 05/25/17 12:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://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: 05/25/2017  
 Reported: 05/31/2017  
 Project Name: STATE 35  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 05/24/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP1 @ 2' (H701394-01)**

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	05/26/2017	ND	1.89	94.4	2.00	0.772	
Toluene*	<0.050	0.050	05/26/2017	ND	1.89	94.3	2.00	1.62	
Ethylbenzene*	<0.050	0.050	05/26/2017	ND	1.99	99.7	2.00	2.05	
Total Xylenes*	<0.150	0.150	05/26/2017	ND	5.53	92.2	6.00	1.91	
Total BTEX	<0.300	0.300	05/26/2017	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 72-148*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>608</b>	16.0	05/26/2017	ND	432	108	400	3.64	

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	05/26/2017	ND	197	98.7	200	1.08	
DRO >C10-C28	<10.0	10.0	05/26/2017	ND	194	96.9	200	1.53	

*Surrogate: 1-Chlorooctane 90.5 % 28.3-164*
*Surrogate: 1-Chlorooctadecane 74.8 % 34.7-157*

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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: 05/25/2017  
 Reported: 05/31/2017  
 Project Name: STATE 35  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 05/24/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP1 @ 7' (H701394-02)**

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	05/26/2017	ND	1.89	94.4	2.00	0.772	
Toluene*	<0.050	0.050	05/26/2017	ND	1.89	94.3	2.00	1.62	
Ethylbenzene*	<0.050	0.050	05/26/2017	ND	1.99	99.7	2.00	2.05	
Total Xylenes*	<0.150	0.150	05/26/2017	ND	5.53	92.2	6.00	1.91	
Total BTEX	<0.300	0.300	05/26/2017	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>576</b>	16.0	05/26/2017	ND	432	108	400	3.64	

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	05/26/2017	ND	197	98.7	200	1.08	
DRO >C10-C28	<10.0	10.0	05/26/2017	ND	194	96.9	200	1.53	

Surrogate: 1-Chlorooctane 87.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 74.9 % 34.7-157

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

 Received: 05/25/2017  
 Reported: 05/31/2017  
 Project Name: STATE 35  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 05/24/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP1 @ 12' (H701394-03)**

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	05/26/2017	ND	1.89	94.4	2.00	0.772	
Toluene*	<0.050	0.050	05/26/2017	ND	1.89	94.3	2.00	1.62	
Ethylbenzene*	<0.050	0.050	05/26/2017	ND	1.99	99.7	2.00	2.05	
Total Xylenes*	<0.150	0.150	05/26/2017	ND	5.53	92.2	6.00	1.91	
Total BTEX	<0.300	0.300	05/26/2017	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>288</b>	16.0	05/26/2017	ND	432	108	400	3.64	

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	05/26/2017	ND	197	98.7	200	1.08	
DRO >C10-C28	<10.0	10.0	05/26/2017	ND	194	96.9	200	1.53	

Surrogate: 1-Chlorooctane 99.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 82.0 % 34.7-157

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

 Received: 05/25/2017  
 Reported: 05/31/2017  
 Project Name: STATE 35  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 05/24/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP1 @ 17' (H701394-04)**

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	05/26/2017	ND	1.89	94.4	2.00	0.772	
Toluene*	<0.050	0.050	05/26/2017	ND	1.89	94.3	2.00	1.62	
Ethylbenzene*	<0.050	0.050	05/26/2017	ND	1.99	99.7	2.00	2.05	
Total Xylenes*	<0.150	0.150	05/26/2017	ND	5.53	92.2	6.00	1.91	
Total BTEX	<0.300	0.300	05/26/2017	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/26/2017	ND	432	108	400	3.64	

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	05/26/2017	ND	197	98.7	200	1.08	
DRO >C10-C28	<10.0	10.0	05/26/2017	ND	194	96.9	200	1.53	

Surrogate: 1-Chlorooctane 103 % 28.3-164

Surrogate: 1-Chlorooctadecane 88.1 % 34.7-157

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 Fax To: (575) 397-0397

Received:	05/25/2017	Sampling Date:	05/24/2017
Reported:	05/31/2017	Sampling Type:	Soil
Project Name:	STATE 35	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP2 @ 2' (H701394-05)**

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	05/26/2017	ND	1.89	94.4	2.00	0.772	
Toluene*	<0.050	0.050	05/26/2017	ND	1.89	94.3	2.00	1.62	
Ethylbenzene*	<0.050	0.050	05/26/2017	ND	1.99	99.7	2.00	2.05	
Total Xylenes*	<0.150	0.150	05/26/2017	ND	5.53	92.2	6.00	1.91	
Total BTEX	<0.300	0.300	05/26/2017	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>336</b>	16.0	05/26/2017	ND	432	108	400	3.64	

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	05/26/2017	ND	197	98.7	200	1.08	
<b>DRO &gt;C10-C28</b>	<b>160</b>	10.0	05/26/2017	ND	194	96.9	200	1.53	

*Surrogate: 1-Chlorooctane 99.5 % 28.3-164*
*Surrogate: 1-Chlorooctadecane 92.1 % 34.7-157*

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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:	05/25/2017	Sampling Date:	05/24/2017
Reported:	05/31/2017	Sampling Type:	Soil
Project Name:	STATE 35	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP2 @ 7' (H701394-06)**

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	05/26/2017	ND	1.89	94.4	2.00	0.772	
Toluene*	<0.050	0.050	05/26/2017	ND	1.89	94.3	2.00	1.62	
Ethylbenzene*	<0.050	0.050	05/26/2017	ND	1.99	99.7	2.00	2.05	
Total Xylenes*	<0.150	0.150	05/26/2017	ND	5.53	92.2	6.00	1.91	
Total BTEX	<0.300	0.300	05/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	05/26/2017	ND	432	108	400	3.64	

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	05/26/2017	ND	197	98.7	200	1.08	
DRO >C10-C28	<10.0	10.0	05/26/2017	ND	194	96.9	200	1.53	

Surrogate: 1-Chlorooctane 112 % 28.3-164

Surrogate: 1-Chlorooctadecane 98.0 % 34.7-157

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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:	05/25/2017	Sampling Date:	05/24/2017
Reported:	05/31/2017	Sampling Type:	Soil
Project Name:	STATE 35	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP2 @ 12' (H701394-07)**

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	05/26/2017	ND	1.89	94.4	2.00	0.772	
Toluene*	<0.050	0.050	05/26/2017	ND	1.89	94.3	2.00	1.62	
Ethylbenzene*	<0.050	0.050	05/26/2017	ND	1.99	99.7	2.00	2.05	
Total Xylenes*	<0.150	0.150	05/26/2017	ND	5.53	92.2	6.00	1.91	
Total BTEX	<0.300	0.300	05/26/2017	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 100 % 72-148*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>192</b>	16.0	05/26/2017	ND	432	108	400	3.64	

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	05/26/2017	ND	197	98.7	200	1.08	
DRO >C10-C28	<10.0	10.0	05/26/2017	ND	194	96.9	200	1.53	

*Surrogate: 1-Chlorooctane 97.8 % 28.3-164*
*Surrogate: 1-Chlorooctadecane 78.3 % 34.7-157*

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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: 05/25/2017  
 Reported: 05/31/2017  
 Project Name: STATE 35  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 05/24/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP2 @ 17' (H701394-08)**

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	05/26/2017	ND	1.89	94.4	2.00	0.772	
Toluene*	<0.050	0.050	05/26/2017	ND	1.89	94.3	2.00	1.62	
Ethylbenzene*	<0.050	0.050	05/26/2017	ND	1.99	99.7	2.00	2.05	
Total Xylenes*	<0.150	0.150	05/26/2017	ND	5.53	92.2	6.00	1.91	
Total BTEX	<0.300	0.300	05/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>368</b>	16.0	05/26/2017	ND	432	108	400	3.64	

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	05/26/2017	ND	197	98.7	200	1.08	
<b>DRO &gt;C10-C28</b>	<b>10.5</b>	10.0	05/26/2017	ND	194	96.9	200	1.53	

Surrogate: 1-Chlorooctane 95.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 89.5 % 34.7-157

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**Analytical Results For:**

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

 Received: 05/25/2017  
 Reported: 05/31/2017  
 Project Name: STATE 35  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 05/24/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP3 @ 1' (H701394-09)**

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	05/26/2017	ND	1.89	94.4	2.00	0.772	
Toluene*	<0.050	0.050	05/26/2017	ND	1.89	94.3	2.00	1.62	
Ethylbenzene*	<0.050	0.050	05/26/2017	ND	1.99	99.7	2.00	2.05	
Total Xylenes*	<0.150	0.150	05/26/2017	ND	5.53	92.2	6.00	1.91	
Total BTEX	<0.300	0.300	05/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	05/26/2017	ND	432	108	400	3.64	

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	05/26/2017	ND	197	98.7	200	1.08	
DRO >C10-C28	<10.0	10.0	05/26/2017	ND	194	96.9	200	1.53	

Surrogate: 1-Chlorooctane 104 % 28.3-164

Surrogate: 1-Chlorooctadecane 86.7 % 34.7-157

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 Fax To: (575) 397-0397

 Received: 05/25/2017  
 Reported: 05/31/2017  
 Project Name: STATE 35  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 05/24/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP3 @ 6' (H701394-10)**

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	05/26/2017	ND	1.89	94.4	2.00	0.772	
Toluene*	<0.050	0.050	05/26/2017	ND	1.89	94.3	2.00	1.62	
Ethylbenzene*	<0.050	0.050	05/26/2017	ND	1.99	99.7	2.00	2.05	
Total Xylenes*	<0.150	0.150	05/26/2017	ND	5.53	92.2	6.00	1.91	
Total BTEX	<0.300	0.300	05/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>400</b>	16.0	05/26/2017	ND	432	108	400	3.64	

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	05/26/2017	ND	197	98.7	200	1.08	
DRO >C10-C28	<10.0	10.0	05/26/2017	ND	194	96.9	200	1.53	

Surrogate: 1-Chlorooctane 103 % 28.3-164

Surrogate: 1-Chlorooctadecane 83.7 % 34.7-157

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 Fax To: (575) 397-0397

 Received: 05/25/2017  
 Reported: 05/31/2017  
 Project Name: STATE 35  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 05/24/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP3 @ 11' (H701394-11)**

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	05/26/2017	ND	1.89	94.4	2.00	0.772	
Toluene*	<0.050	0.050	05/26/2017	ND	1.89	94.3	2.00	1.62	
Ethylbenzene*	<0.050	0.050	05/26/2017	ND	1.99	99.7	2.00	2.05	
Total Xylenes*	<0.150	0.150	05/26/2017	ND	5.53	92.2	6.00	1.91	
Total BTEX	<0.300	0.300	05/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	05/26/2017	ND	432	108	400	3.64	

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	05/26/2017	ND	197	98.7	200	1.08	
DRO >C10-C28	<10.0	10.0	05/26/2017	ND	194	96.9	200	1.53	

Surrogate: 1-Chlorooctane 107 % 28.3-164

Surrogate: 1-Chlorooctadecane 88.8 % 34.7-157

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 Received: 05/25/2017  
 Reported: 05/31/2017  
 Project Name: STATE 35  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 05/24/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP4 @ 1' (H701394-12)**

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	05/26/2017	ND	1.89	94.4	2.00	0.772	
Toluene*	<0.050	0.050	05/26/2017	ND	1.89	94.3	2.00	1.62	
Ethylbenzene*	<0.050	0.050	05/26/2017	ND	1.99	99.7	2.00	2.05	
Total Xylenes*	<0.150	0.150	05/26/2017	ND	5.53	92.2	6.00	1.91	
Total BTEX	<0.300	0.300	05/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>48.0</b>	16.0	05/26/2017	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	05/26/2017	ND	197	98.7	200	1.08	
<b>DRO &gt;C10-C28</b>	<b>194</b>	50.0	05/26/2017	ND	194	96.9	200	1.53	

Surrogate: 1-Chlorooctane 98.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 102 % 34.7-157

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**Analytical Results For:**

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

 Received: 05/25/2017  
 Reported: 05/31/2017  
 Project Name: STATE 35  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 05/24/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP4 @ 7' (H701394-13)**

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	05/26/2017	ND	1.89	94.4	2.00	0.772	
Toluene*	<0.050	0.050	05/26/2017	ND	1.89	94.3	2.00	1.62	
Ethylbenzene*	<0.050	0.050	05/26/2017	ND	1.99	99.7	2.00	2.05	
Total Xylenes*	<0.150	0.150	05/26/2017	ND	5.53	92.2	6.00	1.91	
Total BTEX	<0.300	0.300	05/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>224</b>	16.0	05/26/2017	ND	432	108	400	3.64	

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	05/26/2017	ND	197	98.7	200	1.08	
DRO >C10-C28	<10.0	10.0	05/26/2017	ND	194	96.9	200	1.53	

Surrogate: 1-Chlorooctane 95.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 81.2 % 34.7-157

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**Analytical Results For:**

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

 Received: 05/25/2017  
 Reported: 05/31/2017  
 Project Name: STATE 35  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 05/24/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP4 @ 12' (H701394-14)**

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	05/26/2017	ND	1.89	94.4	2.00	0.772	
Toluene*	<0.050	0.050	05/26/2017	ND	1.89	94.3	2.00	1.62	
Ethylbenzene*	<0.050	0.050	05/26/2017	ND	1.99	99.7	2.00	2.05	
Total Xylenes*	<0.150	0.150	05/26/2017	ND	5.53	92.2	6.00	1.91	
Total BTEX	<0.300	0.300	05/26/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>384</b>	16.0	05/26/2017	ND	432	108	400	3.64	

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	05/26/2017	ND	197	98.7	200	1.08	
DRO >C10-C28	<10.0	10.0	05/26/2017	ND	194	96.9	200	1.53	

Surrogate: 1-Chlorooctane 94.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 82.4 % 34.7-157

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 Fax To: (575) 397-0397

 Received: 05/25/2017  
 Reported: 05/31/2017  
 Project Name: STATE 35  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 05/24/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP5 @ 1' (H701394-15)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2017	ND	1.65	82.7	2.00	1.60	
<b>Toluene*</b>	<b>0.070</b>	0.050	05/30/2017	ND	1.68	84.1	2.00	1.08	
Ethylbenzene*	<0.050	0.050	05/30/2017	ND	1.83	91.7	2.00	1.54	
Total Xylenes*	<0.150	0.150	05/30/2017	ND	5.04	83.9	6.00	1.40	
Total BTEX	<0.300	0.300	05/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	05/26/2017	ND	432	108	400	3.64	

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	05/26/2017	ND	197	98.7	200	1.08	
DRO >C10-C28	<10.0	10.0	05/26/2017	ND	194	96.9	200	1.53	

Surrogate: 1-Chlorooctane 88.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 69.5 % 34.7-157

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 Received: 05/25/2017  
 Reported: 05/31/2017  
 Project Name: STATE 35  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 05/24/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SP5 @ 6' (H701394-16)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2017	ND	1.65	82.7	2.00	1.60	
Toluene*	<0.050	0.050	05/30/2017	ND	1.68	84.1	2.00	1.08	
Ethylbenzene*	<0.050	0.050	05/30/2017	ND	1.83	91.7	2.00	1.54	
Total Xylenes*	<0.150	0.150	05/30/2017	ND	5.04	83.9	6.00	1.40	
Total BTEX	<0.300	0.300	05/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/26/2017	ND	432	108	400	3.64	

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	05/26/2017	ND	197	98.7	200	1.08	
DRO >C10-C28	<10.0	10.0	05/26/2017	ND	194	96.9	200	1.53	

Surrogate: 1-Chlorooctane 102 % 28.3-164

Surrogate: 1-Chlorooctadecane 82.3 % 34.7-157

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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:	05/25/2017	Sampling Date:	05/24/2017
Reported:	05/31/2017	Sampling Type:	Soil
Project Name:	STATE 35	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: SP5 @ 11' (H701394-17)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2017	ND	1.65	82.7	2.00	1.60	
Toluene*	<0.050	0.050	05/30/2017	ND	1.68	84.1	2.00	1.08	
Ethylbenzene*	<0.050	0.050	05/30/2017	ND	1.83	91.7	2.00	1.54	
Total Xylenes*	<0.150	0.150	05/30/2017	ND	5.04	83.9	6.00	1.40	
Total BTEX	<0.300	0.300	05/30/2017	ND					

*Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 72-148*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	05/26/2017	ND	432	108	400	3.64	

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	05/26/2017	ND	197	98.7	200	1.08	
DRO >C10-C28	<10.0	10.0	05/26/2017	ND	194	96.9	200	1.53	

*Surrogate: 1-Chlorooctane 103 % 28.3-164*
*Surrogate: 1-Chlorooctadecane 88.6 % 34.7-157*

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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:	05/25/2017	Sampling Date:	05/24/2017
Reported:	05/31/2017	Sampling Type:	Soil
Project Name:	STATE 35	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

**Sample ID: NORTH @ 1' (H701394-18)**

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	05/30/2017	ND	1.65	82.7	2.00	1.60		
Toluene*	<0.050	0.050	05/30/2017	ND	1.68	84.1	2.00	1.08		
Ethylbenzene*	<0.050	0.050	05/30/2017	ND	1.83	91.7	2.00	1.54		
Total Xylenes*	<0.150	0.150	05/30/2017	ND	5.04	83.9	6.00	1.40		
Total BTEX	<0.300	0.300	05/30/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/26/2017	ND	432	108	400	3.64		

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	05/26/2017	ND	197	98.7	200	1.08		
DRO >C10-C28	<10.0	10.0	05/26/2017	ND	194	96.9	200	1.53		

Surrogate: 1-Chlorooctane 80.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 67.7 % 34.7-157

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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: 05/25/2017  
 Reported: 05/31/2017  
 Project Name: STATE 35  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 05/24/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: SOUTH @ 1' (H701394-19)**

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	05/30/2017	ND	1.65	82.7	2.00	1.60	
Toluene*	<0.050	0.050	05/30/2017	ND	1.68	84.1	2.00	1.08	
Ethylbenzene*	<0.050	0.050	05/30/2017	ND	1.83	91.7	2.00	1.54	
Total Xylenes*	<0.150	0.150	05/30/2017	ND	5.04	83.9	6.00	1.40	
Total BTEX	<0.300	0.300	05/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>32.0</b>	16.0	05/26/2017	ND	432	108	400	3.64	

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	05/27/2017	ND	194	96.9	200	10.8	
DRO >C10-C28	<10.0	10.0	05/27/2017	ND	181	90.4	200	16.7	

Surrogate: 1-Chlorooctane 94.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 77.4 % 34.7-157

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**Analytical Results For:**

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

 Received: 05/25/2017  
 Reported: 05/31/2017  
 Project Name: STATE 35  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 05/24/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: EAST @ 1' (H701394-20)**

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	05/30/2017	ND	1.65	82.7	2.00	1.60	
Toluene*	<0.050	0.050	05/30/2017	ND	1.68	84.1	2.00	1.08	
Ethylbenzene*	<0.050	0.050	05/30/2017	ND	1.83	91.7	2.00	1.54	
Total Xylenes*	<0.150	0.150	05/30/2017	ND	5.04	83.9	6.00	1.40	
Total BTEX	<0.300	0.300	05/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/26/2017	ND	432	108	400	3.64	

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	05/27/2017	ND	194	96.9	200	10.8	
DRO >C10-C28	<10.0	10.0	05/27/2017	ND	181	90.4	200	16.7	

Surrogate: 1-Chlorooctane 84.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 68.6 % 34.7-157

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**Analytical Results For:**

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

 Received: 05/25/2017  
 Reported: 05/31/2017  
 Project Name: STATE 35  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 05/24/2017  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: WEST @ 1' (H701394-21)**

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	05/30/2017	ND	1.65	82.7	2.00	1.60		
Toluene*	<0.050	0.050	05/30/2017	ND	1.68	84.1	2.00	1.08		
Ethylbenzene*	<0.050	0.050	05/30/2017	ND	1.83	91.7	2.00	1.54		
Total Xylenes*	<0.150	0.150	05/30/2017	ND	5.04	83.9	6.00	1.40		
Total BTEX	<0.300	0.300	05/30/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/26/2017	ND	432	108	400	3.64		

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	05/31/2017	ND	194	96.9	200	10.8		
<b>DRO &gt;C10-C28</b>	<b>61.1</b>	10.0	05/31/2017	ND	181	90.4	200	16.7		

Surrogate: 1-Chlorooctane 98.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 89.0 % 34.7-157

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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.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report





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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

**BILL TO**

**ANALYSIS REQUEST**

Company Name: BBC International, Inc.		P.O. #:	
Project Manager: Cliff Brunson		Company: Mack Energy	
Address: P.O. Box 805		Attn:	
City: Hobbs		Address:	
State: NM Zip: 88241		City:	
Phone #: 575-397-6388		State:	
Fax #: 575-397-0397		Zip:	
Project #: _____		Project Owner: Mack Energy	
Project Name: State 35		Phone #:	
Project Location:		Fax #:	
Sampler Name: Price Brunson		DATE	
FOR LAB USE ONLY		TIME	
Lab I.D. Sample I.D.		BTEX	
H101394		CI	
1 SP1 @ 2'		TPH	
2 SP1 @ 7'			
3 SP1 @ 12'			
4 SP1 @ 17'			
5 SP2 @ 2'			
6 SP2 @ 7'			
7 SP2 @ 12'			
8 SP2 @ 17'			
9 SP3 @ 1'			
10 SP3 @ 6'			

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Relinquished By: _____	Date: 5/24/17	Received By: _____	Date: 5/24/17
Time: 3:30 PM		Time: 12:30	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: -396	Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: _____ (Initials)	70-Hrs
REMARKS:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:	
	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:	

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



**CARDINAL LABORATORIES**

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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

2013

**BILL TO**

**ANALYSIS REQUEST**

Company Name: BBC International, Inc. P.O. #:   
 Project Manager: Cliff Brunson Company: *Hack Grunig*   
 Address: P.O. Box 805 Attn:   
 City: Hobbs State: NM Zip: 88241   
 Phone #: 575-397-6388 Fax #: 575-397-0397 Address:   
 Project #: Project Owner: *Hack Grunig*   
 Project Name: State 35 City:   
 Project Location: State: Zip:   
 Sample Name: Price Brunson Phone #:   
 FOR LAB USE ONLY Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTEX	CI	TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
<i>A101394</i>														
11	SP3 @ 11'		1						5/24/17	12:30 PM	✓	✓	✓	
12	SP4 @ 1'		1						5/24/17	1:00 PM	✓	✓	✓	
13	SP4 @ 7'		1						5/24/17	1:20 PM	✓	✓	✓	
14	SP4 @ 12'		1						5/24/17	1:30 PM	✓	✓	✓	
15	SP5 @ 1'		1						5/24/17	1:40 PM	✓	✓	✓	
16	SP5 @ 6'		1						5/24/17	1:50 PM	✓	✓	✓	
17	SP5 @ 11'		1						5/24/17	2:00 PM	✓	✓	✓	
18	NORTH @ 1'		1						5/24/17	11:35 AM	✓	✓	✓	
19	SOUTH @ 1'		1						5/24/17	11:10 AM	✓	✓	✓	
20	EAST @ 1'		1						5/24/17	11:20 AM	✓	✓	✓	

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Relinquished By: *[Signature]* Date: *5/24/17* Time: *3:30 PM* Received By: *[Signature]* Date: *5/24/17* Time: *12:30*

Delivered By: (Circle One)  UPS  Bus  Other: *-39°*

Sample Condition:  Cool  Intact  Yes  No  Yes  No

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

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

