

August 22, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: GRIER INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 08/19/14 11:45.

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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

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



BBC International, Inc. Cliff Brunson P.O. Box 805

Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 08/19/2014 Sampling Date: 08/18/2014

Reported: 08/22/2014 Sampling Type: Soil

Project Name: GRIER INJECTION LINE Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Kathy Perez

Project Location: LOCO HILLS

Sample ID: SP 1 @ 3 INCHES (H402532-01)

Chloride, SM4500Cl-B mg/kg			Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	08/20/2014	ND	400	100	400	0.00	

Sample ID: SP 1 @ 1' (H402532-02)

mg/	mg/kg Analyzed By: ck							
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	08/20/2014	ND	1.80	89.8	2.00	5.15	
<0.050	0.050	08/20/2014	ND	1.65	82.6	2.00	4.46	
<0.050	0.050	08/20/2014	ND	1.84	91.8	2.00	4.49	
<0.150	0.150	08/20/2014	ND	5.47	91.1	6.00	5.21	
<0.300	0.300	08/20/2014	ND					
	Result <0.050 <0.050 <0.050 <0.050 <0.150	Result Reporting Limit <0.050 0.050 <0.050 0.050 <0.050 0.050 <0.050 0.150	Result Reporting Limit Analyzed <0.050 0.050 08/20/2014 <0.050 0.050 08/20/2014 <0.050 0.050 08/20/2014 <0.150 0.150 08/20/2014	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank BS <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

Surrogate: 4-Bromofluorobenzene (PID 104 % 89.4-126

Surrogate: 4-Bromofluorobenzene (PID	104	% 89.4-12	26						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6720	16.0	08/20/2014	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	d By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/19/2014	ND	191	95.7	200	0.146	
DRO >C10-C28	<10.0	10.0	08/19/2014	ND	207	103	200	0.978	
Surrogate: 1-Chlorooctane	90.1	% 65.2-14	10						

Surrogate: 1-Chlorooctane 90.1 % 65.2-140
Surrogate: 1-Chlorooctadecane 99.6 % 63.6-154

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene



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Received: 08/19/2014 Sampling Date: 08/18/2014

Reported: 08/22/2014 Sampling Type: Soil

Project Name: GRIER INJECTION LINE Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Kathy Perez

Project Location: LOCO HILLS

Sample ID: SP 1 @ 3' (H402532-03)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8400	16.0	08/20/2014	ND	400	100	400	0.00		

Sample ID: SP 1 @ 5' (H402532-04)

Chloride, SM4500CI-B mg/kg			Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8080	16.0	08/20/2014	ND	400	100	400	0.00	

Sample ID: SP 2 @ 3 INCHES (H402532-05)

Chloride, SM4500Cl-B mg/kg			Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20800	16.0	08/20/2014	ND	400	100	400	0.00	

Sample ID: SP 2 @ 1' (H402532-06)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/20/2014	ND	400	100	400	0.00	

Sample ID: SP 2 @ 3' (H402532-07)

Chloride, SM4500CI-B	CI-B mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/20/2014	ND	400	100	400	0.00	

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Received: 08/19/2014 Sampling Date: 08/18/2014

Reported: 08/22/2014 Sampling Type: Soil

Project Name: GRIER INJECTION LINE Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Kathy Perez

Project Location: LOCO HILLS

Sample ID: SP 3 @ 3 INCHES (H402532-08)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	08/20/2014	ND	400	100	400	0.00	

Sample ID: SP 3 @ 1' (H402532-09)

Chloride, SM4500Cl-B mg/kg			Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6320	16.0	08/20/2014	ND	400	100	400	0.00	

Sample ID: SP 3 @ 3' (H402532-10)

Chloride, SM4500Cl-B	Analyze	d By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3560	16.0	08/20/2014	ND	400	100	400	0.00	

Sample ID: SP 3 @ 5' (H402532-11)

Chloride, SM4500Cl-B	loride, SM4500Cl-B mg/kg			d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	08/20/2014	ND	416	104	400	3.92	

Sample ID: SP 4 @ 3 INCHES (H402532-12)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12300	16.0	08/20/2014	ND	416	104	400	3.92	

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Fax To: (575) 397-0397

Received: 08/19/2014 Sampling Date: 08/18/2014

Reported: 08/22/2014 Sampling Type: Soil

Project Name: **GRIER INJECTION LINE** Sampling Condition: Cool & Intact Sample Received By: Project Number: NOT GIVEN Kathy Perez

Project Location: LOCO HILLS

Sample ID: SP 4 @ 1' (H402532-13)

BTEX 8021B	mg/	kg	Analyze	d By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/20/2014	ND	1.80	89.8	2.00	5.15	
Toluene*	<0.050	0.050	08/20/2014	ND	1.65	82.6	2.00	4.46	
Ethylbenzene*	<0.050	0.050	08/20/2014	ND	1.84	91.8	2.00	4.49	
Total Xylenes*	<0.150	0.150	08/20/2014	ND	5.47	91.1	6.00	5.21	
Total BTEX	<0.300	0.300	08/20/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4080	16.0	08/20/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	08/19/2014	ND	191	95.7	200	0.146	
DRO >C10-C28	58.0	50.0	08/19/2014	ND	207	103	200	0.978	
Surrogate: 1-Chlorooctane	70.1	% 65.2-14	0						
	106								

106 % 63.6-154 Surrogate: 1-Chlorooctadecane

Sample ID: SP 4 @ 3' (H402532-14)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	08/20/2014	ND	416	104	400	3.92	

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Reported: 08/22/2014 Sampling Type: Soil

Project Name: GRIER INJECTION LINE Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Kathy Perez

Project Location: LOCO HILLS

Sample ID: SP 4 @ 5' (H402532-15)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/20/2014	ND	416	104	400	3.92	

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Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

ARDINAL LABORATORIES 101 East Mariand, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476 Company Name: BBC International Inc.

Project Manager: Cliff Brunson	कार्य गाव	ANALYSIS REQUEST
DO DOSCI	P.O. #:	
Address: P.O. Box 805	Company:	
City. Hobbs State: NM Zip: 88241	Attn:	
Phone #: 575-397-6388 Fax #: 575-397-0397	Address:	
Project #: Project Owner: Manage Cove	City: OZM	
OUT THE	State: 7in.	
	#	
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LEASE NOTE: Liability and Damages. Condinats leability and cherd's exclusive remedy for any claim anising whather based in contract or lort, shart be limited to the annount pad by the claim for the	for shall be limited to the anadyri paid by the client for the	
synce. In no event shall contract be lable for incidenal or consequented damages, including without exercit unless industry and received by Continus within 30 days after competion of the applicable materials by successors arisin out of or relief to the participance of services hereunder by Continus (in continues and exercity) and of the participance of services hereunder by Continual receivables of whether such class is based upon any of the above stated reasons or otherwise.	sceived by Cardinal within 30 days after completion of the a softuse, or boss of profits incurred by client, its subsidiaries has been sorted by client, and the profits above stated reasons or otherwise.	ODG-Bit
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Time: Received By.	•	
Delivered By: (Circle One) Sample Condition	CHECKED BY:	
150: 42		•
† Cardinal cannot a	2	

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

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