

From: [Larry Davis](#)
To: [Patterson, Heather, EMNRD](#)
Cc: [Jeff Teare](#); [Greg McWilliams](#); [Cliff Brunson](#)
Subject: Remediation of release site Beeson F Federal #029
Date: Monday, December 01, 2014 3:21:51 PM
Attachments: image003.png
Lab Analysis Beeson F Federal #29_8-20-14.pdf
Lab Analysis Beeson F Federal #29_11-14-14.pdf
Lab Summary Beeson F Federal #29_8-20-14.pdf
Lab Summary Beeson F Federal #29_11-14-14.pdf
Re EnergyQuest Proposed Actions - Grayburg Water Flood and Beeson #029.msg
Sampling Results - Beeson F Federal #29.msg
Re Sampling Results - Beeson F Federal #29.msg

Heather,

Regarding remediation of the Beeson F Federal #029 site resulting from a release on 03 August 2014, EnergyQuest has repaired all damaged lines and excavated the impacted area, removing contaminated soils and vegetation. Samples from that site were tested; initial analysis is attached. (See PDF's "Lab Analysis" and Lab Summary" dated 8-20-14). On 23 October 2014, EnergyQuest met and consulted with Sol Hughes and Jeffrey Robertson from the BLM. Following an on-site visit by both gentlemen, a remediation plan was developed and submitted to the BLM for approval. Below is the plan presented:

Corrective Actions for Beeson F Federal #029 Release site

It has been determined that this area has no groundwater concerns. Excavation at the site has reached a depth of approximately thirteen feet. Included in the discussion was reduction of the pad site and using material from the pad both as backfill and potentially as the cap over the backfill.

The corrective actions we discussed included:

1. Extract one (1) core sample from the floor of the excavated site and test for chlorides.
2. Remove caliche from the outer skirt of the #029 pad and re-use it for backfill and as a cap over the backfill. Extract sample from this material to verify it is clean of contaminants before using it for a cap over the backfill.
3. Backfill the excavation to the exposed natural caliche layer.
4. Cap the backfill with at least 1 foot of clean caliche (intent is to use caliche from the #029 pad if sampling shows it to be clean – if not, clean caliche will be brought in).
5. Add an additional 2 feet of clean, viable soil to the caliche cap, and contour the entire site to imitate as best as possible the natural contours of the surrounding area.
6. Replace material removed from the #029 pad with enough clean, viable soil to allow for proper root growth and contouring of the area to imitate as best as possible the natural contours of the surrounding area.
7. When appropriate, re-seed both locations with mixture determined by the BLM as best suited for the area.

BLM accepted EnergyQuest's proposal for Corrective Actions on October 29, 2014, with the stipulation that additional samples demonstrated that contaminants were within acceptable limits. (See attached email "Re: EnergyQuest Proposed Actions – Grayburg Water Flood and Beeson #029".) Please be aware that this email also contains a proposal for remediation of the Grayburg Jackson Water Flood Tank Battery, which is not part of the Beeson #29 incident. That remediation is to correct historical damage that EnergyQuest inherited from previous operators.

As directed by the BLM, additional samples were taken from the Beeson #29 site and submitted for

analysis; testing demonstrated that samples were within limits. (See attached email "Sampling Results – Beeson F Federal #29" and PDF's "Lab Analysis" and "Lab Summary" dated 11-14-14).

On December 1, 2014, Sol Hughes gave BLM's approval to proceed with remediation and outlined expectations. However, BLM stipulated that the proposal still requires approval from NMOCD. ("Re: Sampling Results – Beeson F Federal #29".)

In accordance with that requirement, EnergyQuest now submits our proposal and supporting documents for your review and approval.

Larry D. Davis
Environmental Quality & Safety Manager

The logo for EnergyQuest, featuring the word "Energy" in a blue serif font and "Quest" in a blue sans-serif font, with a stylized blue and white graphic element to the left.

Telephone: 281-651-5201 (direct)

E-Fax: 281-651-5207

**Laboratory Analytical Results Summary
Beeson Federal Injection Line**

<i>Confirmation Sidewall Samples</i>		Sample	SP1 @ NORTH WALL	SP2 @ EAST WALL	SP3 @ WEST WALL	SP4 @ SOUTH WALL
Analyte	Method	Date	8/20/14	8/20/14	8/20/14	8/20/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		1570	2000	3400	2680

<i>Confirmation Bottom Samples</i>		Sample	SP5 @ 13' EAST FLOOR	SP6 @ 13' NORTH/CENTE	SP7 @ 13' WEST FLOOR
Analyte	Method	Date	8/20/14	8/20/14	8/20/14
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	<0.050	n/a
Toluene	BTEX 8021B		n/a	<0.050	n/a
Ethylbenzene	BTEX 8021B		n/a	<0.050	n/a
Total Xylenes	BTEX 8021B		n/a	<0.150	n/a
Total BTEX	BTEX 8021B		n/a	<0.300	n/a
Chloride	SM4500Cl-B		3400	4240	8260
GRO	TPH 8015M		n/a	<10.0	n/a
DRO	TPH 8015M		n/a	<10.0	n/a



August 26, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: BEESON FEDERAL INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 08/20/14 16:47.

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:	08/20/2014	Sampling Date:	08/20/2014
Reported:	08/26/2014	Sampling Type:	Soil
Project Name:	BEESON FEDERAL INJECTION LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS		

Sample ID: SP. 1 @ N. WALL (H402557-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1570	16.0	08/21/2014	ND	400	100	400	0.00	

Sample ID: SP. 2 @ E. WALL (H402557-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	08/21/2014	ND	400	100	400	0.00	

Sample ID: SP. 3 @ W. WALL (H402557-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3400	16.0	08/21/2014	ND	400	100	400	0.00	

Sample ID: SP. 4 @ S. WALL (H402557-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	08/21/2014	ND	400	100	400	0.00	

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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:	08/20/2014	Sampling Date:	08/20/2014
Reported:	08/26/2014	Sampling Type:	Soil
Project Name:	BEESON FEDERAL INJECTION LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS		

Sample ID: SP. 5 @ 13 E. FLOOR (H402557-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3400	16.0	08/21/2014	ND	400	100	400	0.00	

Sample ID: SP. 6 @ 13 N. CENTER (H402557-06)

BTEX 8021B		mg/kg		Analyzed By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2014	ND	1.81	90.5	2.00	7.14	
Toluene*	<0.050	0.050	08/21/2014	ND	1.67	83.3	2.00	7.45	
Ethylbenzene*	<0.050	0.050	08/21/2014	ND	1.85	92.3	2.00	8.69	
Total Xylenes*	<0.150	0.150	08/21/2014	ND	5.49	91.5	6.00	8.89	
Total BTEX	<0.300	0.300	08/21/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	08/21/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/21/2014	ND	186	92.8	200	1.92	
DRO >C10-C28	<10.0	10.0	08/21/2014	ND	199	99.3	200	4.60	

Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

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:	08/20/2014	Sampling Date:	08/20/2014
Reported:	08/26/2014	Sampling Type:	Soil
Project Name:	BEESON FEDERAL INJECTION LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS		

Sample ID: SP. 7 @ 13 W. FLOOR (H402557-07)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8260	16.0	08/21/2014	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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



Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Cliff Brunson		Company:					
Address: P. O. Box 805		Attn:					
City: Hobbs		Address:					
State: NM Zip: 88241		City:					
Phone #: 575-397-6388		State:					
Fax #: 575-397-0397		Zip:					
Project #:		Project Name: <i>Brown Federal Negotiated Hire</i>					
Project Location: <i>Loce Hills</i>		Project Owner: <i>Emply West</i>					
Sampler Name: <i>BH Daniels</i>		Phone #:					
FOR LAB USE ONLY		Fax #:					
Lab I.D. Sample I.D.		(G)RAB OR (C)OMP		MATRIX		PRESERV	
		# CONTAINERS		GROUNDWATER		WASTEWATER	
				SOIL		SLUDGE	
				OIL		OTHER:	
				ACID/BASE:		ICE / COOL	
				OTHER:			
		DATE		TIME			
HH02557		SP12N-Wall		8:20		9:39	
1		SP20E-Wall		9:46		X	
2		SP30W-Wall		10:00		X	
3		SP40S-Wall		10:42		X	
4		SP50E-Ethor		11:07		X	
5		SP60E-13N Center		11:46		X	
6		SP70E-13W Floor					
7							

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Relinquished By: *Cliff Brunson* Date: *8/20/07* Received By: *Cliff Brunson* Date: *9/14/07*

Delivered By: (Circle One) UPS Bus Other: *-7:20*

Sample Condition: Cool Intact Yes No

CHECKED BY: *[Signature]*

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476 #54

Laboratory Analytical Results Summary
Beeson F Federal #29

CONFIRMATION		Sample	SP1 @ SURFACE	SP7 @ 14'	SP7 @ 15'
Analyte	Method	Date	11/14/14	11/14/14	11/14/14
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a
Chloride	SM4500Cl-B		<16.0	48	16
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a



November 20, 2014

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

RE: BEESON F FEDERAL #29

Enclosed are the results of analyses for samples received by the laboratory on 11/14/14 16:50.

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".

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:	11/14/2014	Sampling Date:	11/14/2014
Reported:	11/20/2014	Sampling Type:	Soil
Project Name:	BEESON F FEDERAL #29	Sampling Condition:	Cool & Intact
Project Number:	ENERGY QUEST	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 1 @ SURFACE (PAD) (H403529-01)

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	11/19/2014	ND	1.79	89.3	2.00	5.43	
Toluene*	<0.050	0.050	11/19/2014	ND	1.72	85.9	2.00	5.80	
Ethylbenzene*	<0.050	0.050	11/19/2014	ND	1.67	83.4	2.00	6.56	
Total Xylenes*	<0.150	0.150	11/19/2014	ND	5.01	83.6	6.00	6.86	
Total BTEX	<0.300	0.300	11/19/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 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	<16.0	16.0	11/17/2014	ND	400	100	400	0.00	

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	11/17/2014	ND	190	95.2	200	0.694	
DRO >C10-C28	<10.0	10.0	11/17/2014	ND	191	95.5	200	0.179	

Surrogate: 1-Chlorooctane 111 % 47.2-157
Surrogate: 1-Chlorooctadecane 119 % 52.1-176
Sample ID: SP 7 @ 14' (H403529-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/17/2014	ND	400	100	400	0.00	

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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:	11/14/2014	Sampling Date:	11/14/2014
Reported:	11/20/2014	Sampling Type:	Soil
Project Name:	BEESON F FEDERAL #29	Sampling Condition:	Cool & Intact
Project Number:	ENERGY QUEST	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 7 @ 15' (H403529-03)

Chloride, SM4500Cl-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	11/17/2014	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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- *** Insufficient time to reach temperature.
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Samples reported on an as received basis (wet) unless otherwise noted on report



Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.		P.O. #: BILL TO		ANALYSIS REQUEST															
Project Manager: Cliff Brunson		Company:																	
Address: P.O. Box 805		Attn:																	
City: Hobbs		Address:																	
State: NM Zip: 88241		City: <i>Same</i>																	
Phone #: 575-397-6388		State:																	
Fax #: 575-397-0397		Zip:																	
Project #: _____		Project Owner: <i>Energy Best</i>																	
Project Location: <i>Basco F Federal #29 loco Hills</i>		Phone #:																	
Sampler Name: <i>V.O</i>		Fax #:																	
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME	CL- TPH BTEX										
<i>H403579</i>	<i>SP105 site (PAD)</i>	<i>G</i>	<i>1</i>	GROUNDWATER			<i>11/14</i>	<i>920</i>	<i>X</i>										
<i>2</i>	<i>SP7014</i>	<i>G</i>	<i>1</i>	WASTEWATER			<i>11/14</i>	<i>1039</i>	<i>X</i>										
<i>3</i>	<i>015</i>	<i>C</i>	<i>1</i>	SOIL			<i>11/14</i>	<i>1111</i>	<i>X</i>										
				OIL															
				SLUDGE															
				OTHER :															
				ACID/BASE:															
				ICE / COOL															
				OTHER :															

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: *[Signature]* Date: *11-14-14* Time: *4:50*

Received By: *[Signature]* Date: _____ Time: _____

Delivered By: (Circle One) UPS Bus Other: *-1.20*

Sample Condition: Cool Intact Yes No

CHECKED BY: *[Signature]* (Initials)

REMARKS: *#54*



August 26, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: BEESON FEDERAL INJECTION LINE

Enclosed are the results of analyses for samples received by the laboratory on 08/20/14 16:47.

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".

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:	08/20/2014	Sampling Date:	08/20/2014
Reported:	08/26/2014	Sampling Type:	Soil
Project Name:	BEESON FEDERAL INJECTION LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS		

Sample ID: SP. 1 @ N. WALL (H402557-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1570	16.0	08/21/2014	ND	400	100	400	0.00	

Sample ID: SP. 2 @ E. WALL (H402557-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	08/21/2014	ND	400	100	400	0.00	

Sample ID: SP. 3 @ W. WALL (H402557-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3400	16.0	08/21/2014	ND	400	100	400	0.00	

Sample ID: SP. 4 @ S. WALL (H402557-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	08/21/2014	ND	400	100	400	0.00	

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:	08/20/2014	Sampling Date:	08/20/2014
Reported:	08/26/2014	Sampling Type:	Soil
Project Name:	BEESON FEDERAL INJECTION LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS		

Sample ID: SP. 5 @ 13 E. FLOOR (H402557-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3400	16.0	08/21/2014	ND	400	100	400	0.00	

Sample ID: SP. 6 @ 13 N. CENTER (H402557-06)

BTEX 8021B		mg/kg		Analyzed By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/21/2014	ND	1.81	90.5	2.00	7.14	
Toluene*	<0.050	0.050	08/21/2014	ND	1.67	83.3	2.00	7.45	
Ethylbenzene*	<0.050	0.050	08/21/2014	ND	1.85	92.3	2.00	8.69	
Total Xylenes*	<0.150	0.150	08/21/2014	ND	5.49	91.5	6.00	8.89	
Total BTEX	<0.300	0.300	08/21/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	08/21/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/21/2014	ND	186	92.8	200	1.92	
DRO >C10-C28	<10.0	10.0	08/21/2014	ND	199	99.3	200	4.60	

Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

Cardinal Laboratories

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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:	08/20/2014	Sampling Date:	08/20/2014
Reported:	08/26/2014	Sampling Type:	Soil
Project Name:	BEESON FEDERAL INJECTION LINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS		

Sample ID: SP. 7 @ 13 W. FLOOR (H402557-07)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8260	16.0	08/21/2014	ND	400	100	400	0.00	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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



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

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.		P.O. #:			
Project Manager: Cliff Brunson		Company:			
Address: P.O. Box 805		Attn:			
City: Hobbs		Address:			
State: NM Zip: 88241		City:			
Phone #: 575-397-6388		State: Zip:			
Fax #: 575-397-0397		Phone #:			
Project #:		Project Owner: Empty West			
Project Name: Brown Federal Negotiated Hire		State:			
Project Location: Loco Hills		Zip:			
Sampler Name: BH Daniels		Phone #:			
FOR LAB USE ONLY		Fax #:			
Lab I.D. Sample I.D.		(G)RAB OR (C)OMP			
HH02557		# CONTAINERS			
1 SP12N-Wall		GROUNDWATER			
2 SP20E-Wall		WASTEWATER			
3 SP30W-Wall		SOIL			
4 SP40S-Wall		OIL			
5 SP5013E-Ethor		SLUDGE			
6 SP6013N-center		OTHER:			
7 SP7013W-Floor		ACID/BASE:			
		ICE / COOL			
		OTHER:			
		DATE			
		TIME			
		8:20			
		9:39			
		9:46			
		10:06			
		10:42			
		11:07			
		11:46			

CV-
TPH
BTEX

PLEASE NOTE: Liability and Damages: Cardinal's liability and claims exclusive remedy for any claim arising whether based in contract or tort shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates, successors or assignors out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated instances of otherwise.

Relinquished By: *Cliff Brunson* Date: *8/20/07* Received By: *Cliff Brunson* Date: *9/14/07*

Delivered By: (Circle One) UPS Bus Other: *-7:20*

Sample Condition: Cool Intact Yes No

Checked By: *[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



November 20, 2014

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

RE: BEESON F FEDERAL #29

Enclosed are the results of analyses for samples received by the laboratory on 11/14/14 16:50.

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".

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:	11/14/2014	Sampling Date:	11/14/2014
Reported:	11/20/2014	Sampling Type:	Soil
Project Name:	BEESON F FEDERAL #29	Sampling Condition:	Cool & Intact
Project Number:	ENERGY QUEST	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 1 @ SURFACE (PAD) (H403529-01)

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	11/19/2014	ND	1.79	89.3	2.00	5.43	
Toluene*	<0.050	0.050	11/19/2014	ND	1.72	85.9	2.00	5.80	
Ethylbenzene*	<0.050	0.050	11/19/2014	ND	1.67	83.4	2.00	6.56	
Total Xylenes*	<0.150	0.150	11/19/2014	ND	5.01	83.6	6.00	6.86	
Total BTEX	<0.300	0.300	11/19/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 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	<16.0	16.0	11/17/2014	ND	400	100	400	0.00	

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	11/17/2014	ND	190	95.2	200	0.694	
DRO >C10-C28	<10.0	10.0	11/17/2014	ND	191	95.5	200	0.179	

Surrogate: 1-Chlorooctane 111 % 47.2-157
Surrogate: 1-Chlorooctadecane 119 % 52.1-176
Sample ID: SP 7 @ 14' (H403529-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/17/2014	ND	400	100	400	0.00	

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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:	11/14/2014	Sampling Date:	11/14/2014
Reported:	11/20/2014	Sampling Type:	Soil
Project Name:	BEESON F FEDERAL #29	Sampling Condition:	Cool & Intact
Project Number:	ENERGY QUEST	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

Sample ID: SP 7 @ 15' (H403529-03)

Chloride, SM4500Cl-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	11/17/2014	ND	400	100	400	0.00	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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



Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.		P.O. #:		BILL TO		ANALYSIS REQUEST													
Project Manager: Cliff Brunson		Company:																	
Address: P.O. Box 805		Attn:																	
City: Hobbs		State: NM		Zip: 88241															
Phone #: 575-397-6388		Fax #: 575-397-0397		Address:															
Project #:		Project Owner: Energy Best		City: <i>Same</i>															
Project Name: <i>Basco F Federal #29</i>		State:		Zip:															
Project Location: <i>Loco Hills</i>		Phone #:																	
Sampler Name: <i>V.O</i>		Fax #:																	
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV	SAMPLING													
<i>H403579</i>	<i>SP105 site (PAD)</i>	<i>G</i>	<i>1</i>	GROUNDWATER															
<i>2</i>	<i>SP7014</i>	<i>G</i>	<i>1</i>	WASTEWATER															
<i>3</i>	<i>015</i>	<i>C</i>	<i>1</i>	SOIL	<i>X</i>	<i>11/14</i>	<i>920</i>	<i>X</i>	<i>CL-</i>										
				OIL	<i>X</i>	<i>11/14</i>	<i>1039</i>	<i>X</i>	<i>TPH</i>										
				SLUDGE	<i>X</i>	<i>11/14</i>	<i>1111</i>	<i>X</i>	<i>BTEX</i>										
				OTHER :															
				ACID/BASE:															
				ICE / COOL															
				OTHER :															

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Relinquished By: *[Signature]* Date: *11-14-14* Time: *4:50*

Received By: *[Signature]* Date: *11-14-14* Time: *4:50*

Delivered By: (Circle One) UPS Bus Other: *-1.20*

Sample Condition: Cool Intact Yes No

CHECKED BY: *[Signature]* (Initials)

REMARKS: *#54*