

# Closure Report

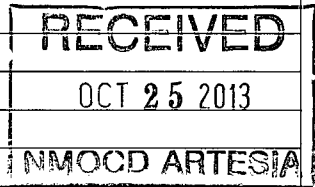
Site Description	
Site Name:	Benson Shugart WFU #2 CTB
Company:	Chevron Delaware Basin
Legal Description:	U/L I, Section 26, T18S, R30E
County:	Eddy County, NM
GPS Coordinates:	N 32.71738° W 103.93519°

Release Data	
Date of Release:	07/29/2013
Type of Release:	Produced Water
Source of Release:	Tank overflow
Volume of Release:	59 bbls
Volume Recovered:	51 bbls

Remediation Specifications	
Remediation Parameters:	Excavate across the entire leak site to a depth of 1 foot. The area to West (yellow/orange sample points on drawing) will be excavated by hand. The site will then be backfilled with clean soil. An archaeologist will be present at all times during the remediation process.
Remediation Activities:	09/24/2013 to 09/27/2013

Plan Sent to OCD:	Meeting	Verbal request/C. Brunson to M. Bratcher
OCD Approval of Plan:	Meeting	Verbal approval/ M. Bratcher to C. Brunson
Plan Sent to BLM:	09/20/2013	Email from Cliff Brunson to Mike Burton
BLM Approval of Plan:	09/20/2013	Email from Mike Burton to Cliff Brunson

Supporting Documentation	
Initial C-141	Signed 08/01/2013
Final C-141	Signed 10/23/2013
Site Diagram	August 2013
Groundwater Plot	175'-200'
TOPO Maps	August 2013
Lab Summary	08/06/2013 and 08/22/2013
Lab Analysis	08/06/2013 and 08/22/2013
Correspondence	Request and approval of remediation plan via email



Request for Closure	
Based on the completion of the remediation plan as agreed upon, BBC International requests closure approval from NMOCD.	
Cliff Brunson, President of BBC International Inc.	10/23/2013

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, 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 October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

### Release Notification and Corrective Action

#### OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Chevron Delaware Basin	Contact	Bradley Blevins
Address	PO Box 190, Hobbs, NM 88241	Telephone No.	(575) 391-1462
Facility Name	Benson Shugart WFU #2 CTB	Facility Type	Battery
Surface Owner	BLM	Mineral Owner	API #

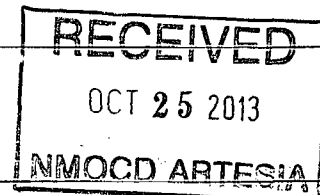
#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	26	18S	30E	2310	South	330	East	Eddy County, NM

Latitude N 32.71738° Longitude W 103.93519°

#### NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	59 bbls	Volume Recovered	51 bbls
Source of Release	Tank overflow	Date and Hour of Occurrence	07/29/2013 @ 10:00 am	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- NMOCD; James Amos- BLM		
By Whom?	Bradley Blevins	Date and Hour	07/29/2013 @ 3:22 pm		
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.\*  
Failure to get a load from the tank caused an overflow and 59 bbls of produced water leaked onto the ground. 51 bbls of produced water were recovered via vacuum truck.

Describe Area Affected and Cleanup Action Taken.\*  
Failure to get a load from the tank caused an overflow and 59 bbls of produced water leaked onto the ground. 51 bbls of produced water were recovered via vacuum truck. Further remediation will be performed in accordance with a NMOCD and BLM approved remediation plan.

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: <i>Bradley Blevins</i>	OIL CONSERVATION DIVISION		
Printed Name: Bradley Blevins	Approved by District Supervisor:		
Title: HE Specialist	Approval Date:	Expiration Date:	
E-mail Address: Bradley.blevins@chk.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 8/1/13	Phone: (575) 391-1462		

\* Attach Additional Sheets If Necessary

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
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District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

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1220 South St. Francis Dr.  
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Form C-141  
Revised October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

### Release Notification and Corrective Action

#### OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Chevron Delaware Basin	Contact	Bradley Blevins
Address	PO Box 190, Hobbs, NM 88241	Telephone No.	(575) 391-1462
Facility Name	Benson Shugart WFU #2 CTB	Facility Type	Battery
Surface Owner	BLM	Mineral Owner	API #

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	26	18S	30E	2310	South	330	East	Eddy County, NM

Latitude N 32.71738° Longitude W 103.93519°

#### NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	59 bbls	Volume Recovered	51 bbls
Source of Release	Tank overflow	Date and Hour of Occurrence	07/29/2013 @ 10:00 am	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- NMOCD; James Amos- BLM		
By Whom?	Bradley Blevins	Date and Hour	07/29/2013 @ 3:22 pm		
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.\*

**RECEIVED**

OCT 25 2013

Describe Cause of Problem and Remedial Action Taken.\*

Failure to get a load from the tank caused an overflow and 59 bbls of produced water leaked onto the ground. 51 bbls of produced water were recovered via vacuum truck.

**NMOCD ARTESIA**

Describe Area Affected and Cleanup Action Taken.\*

Failure to get a load from the tank caused an overflow and 59 bbls of produced water leaked onto the ground. 51 bbls of produced water were recovered via vacuum truck. Remediation was completed in accordance with the remediation plan verbally approved by Mike Bratcher of NMOCD and approved by Mike Burton of the BLM via email on 09/20/2013.

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:

*Bradley Blevins*

Printed Name: Bradley Blevins

#### OIL CONSERVATION DIVISION

Approved by District Supervisor:

Title: HE Specialist

Approval Date:

Expiration Date:

E-mail Address: Bradley.blevins@chk.com

Conditions of Approval:

Attached ☐

Date: 10/23/2013

Phone: (575) 391-1462

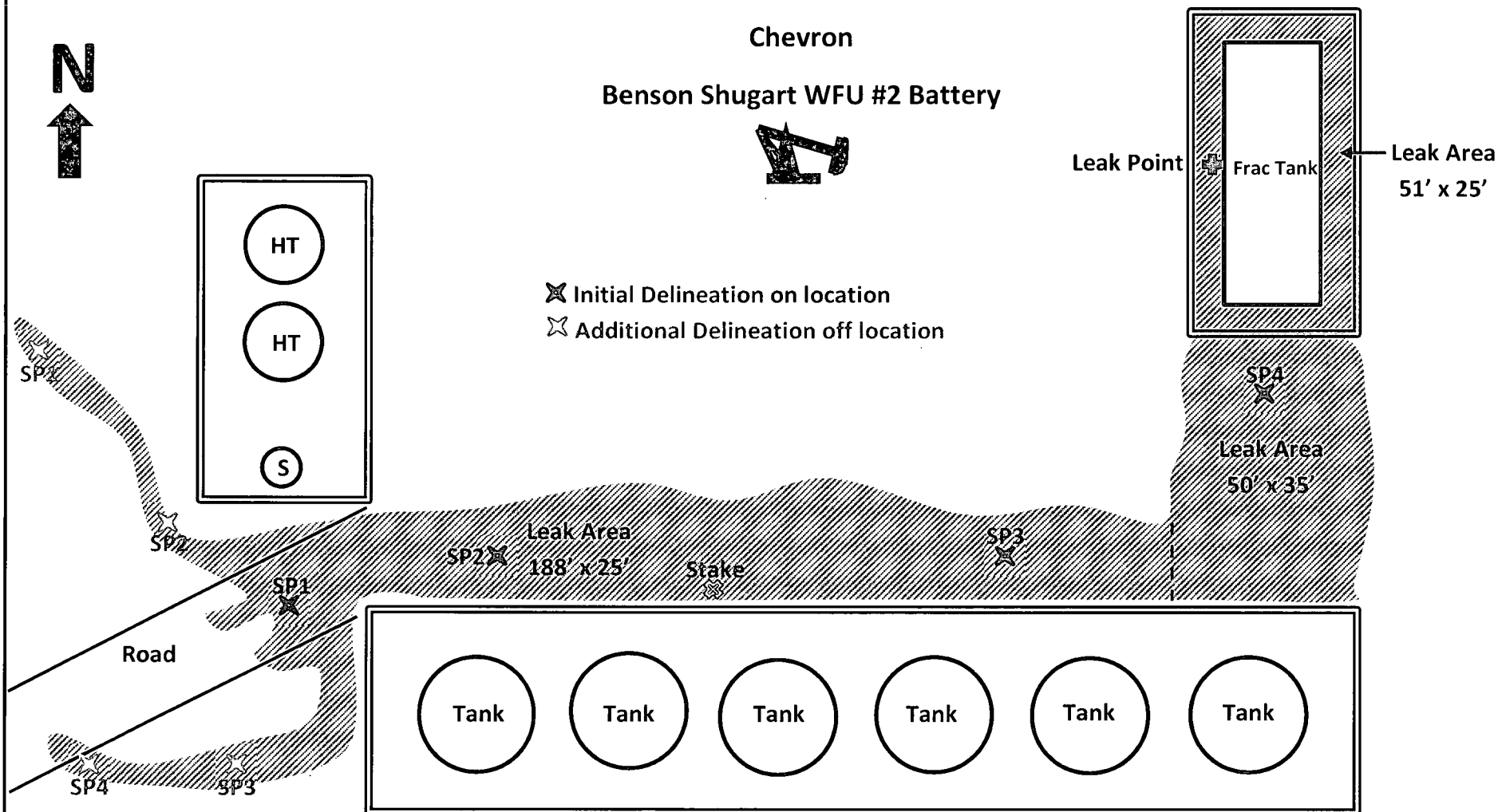
\* Attach Additional Sheets If Necessary



**Chevron**  
**Benson Shugart WFU #2 Battery**



- ✕ Initial Delineation on location
- ✧ Additional Delineation off location



U/L I, Section 26, T18S, R30E  
2310' FSL and 330' FEL  
Eddy County, NM  
GPS at Stake: N 32.71738°W 103.93519°

BBC International, Inc.	
Chevron	
Benson Shugart WFU #2 Battery	
Date: 08/02/2013	DRWG by: K. Purvis
NOT TO SCALE	File: Chevron 2013



# Groundwater Plot

## Chevron Benson Shugart WFU #2 Battery

County  
Eddy

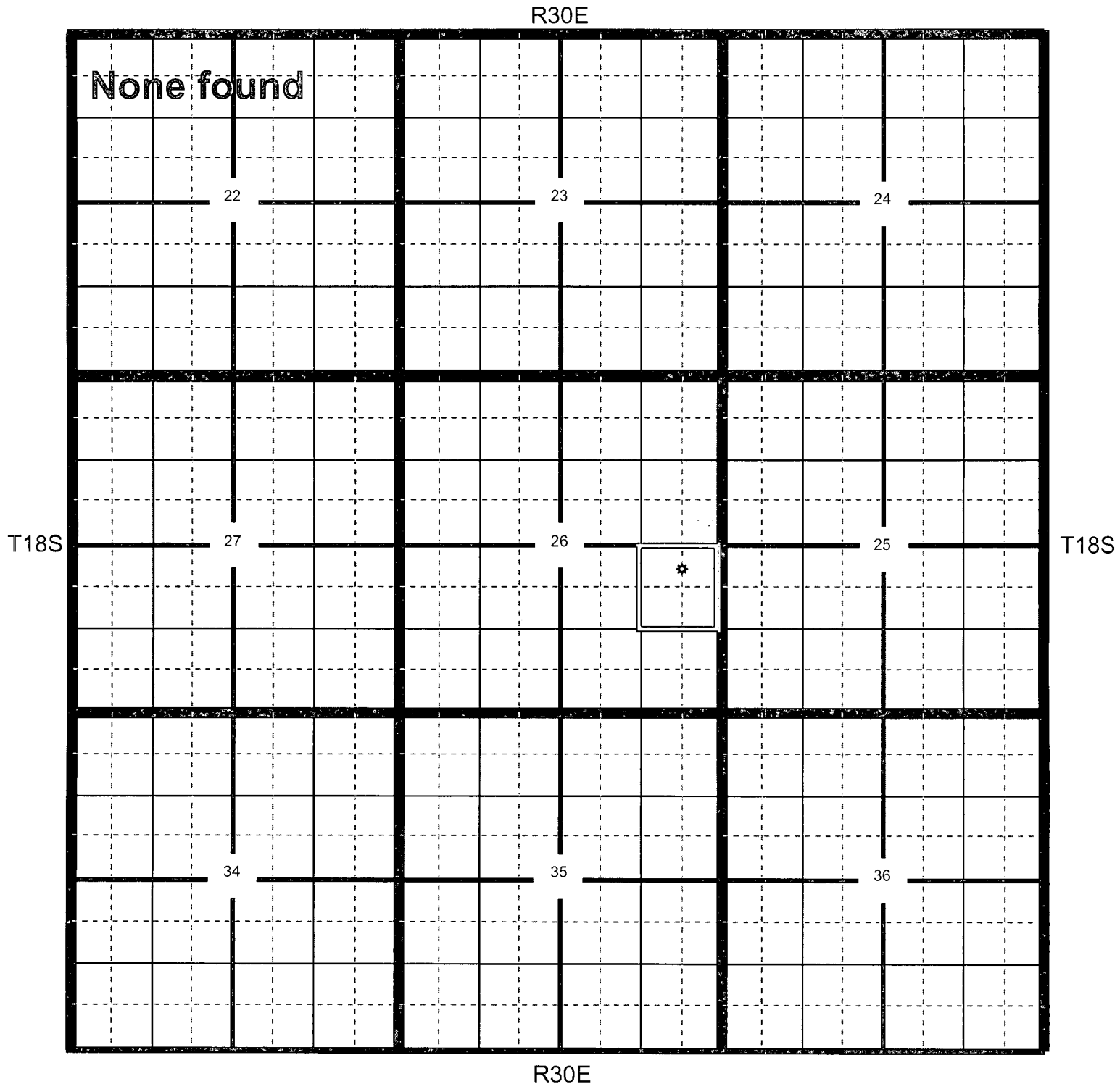
Unit Letter  
I

Section  
26

Township  
18S

Range  
30E

Trend Map 175'-200'



★ Location

○ OCD

○ USGS

○ SEO

● All Databases

# Chevron Benson Shugart WFU #2 Btry

<b>County</b> Eddy	<b>Unit Letter</b> I	<b>Section</b> 26	<b>Township</b> 18S	<b>Range</b> 30E
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Trend Map 175'-200'

1

2

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

3

4

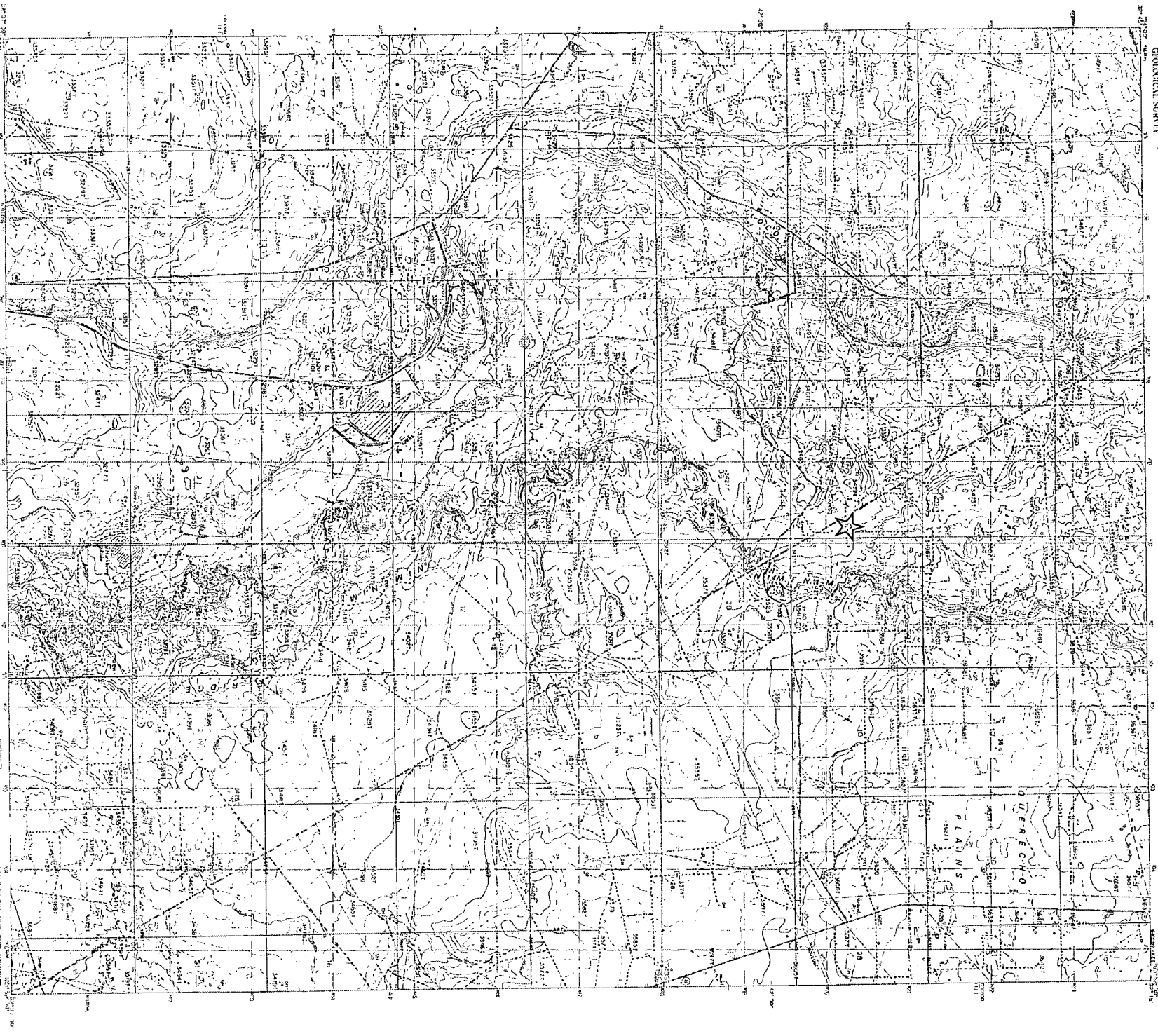
## Chevron

Benson Shugart

WFU #2 Battery

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

BLACKBERRY LAKE QUADRANGLE  
NEW MEXICO GEOIDY CO.  
25 MINUTE SERIES TOPOGRAPHIC



PROVISIONAL MAP  
Produced from original  
manuscript drawings. Infor-  
mation shown as of date of  
field check. 1

THIS MAP COMPLETES WITH NATIONAL MAP SERVICE AT SANDBAR  
FOR SALE BY US GEOGRAPHICAL SERVICE, DISTRICT CHAIRMAN  
OR BOSTON, VIRGINIA 22002

[illegible]

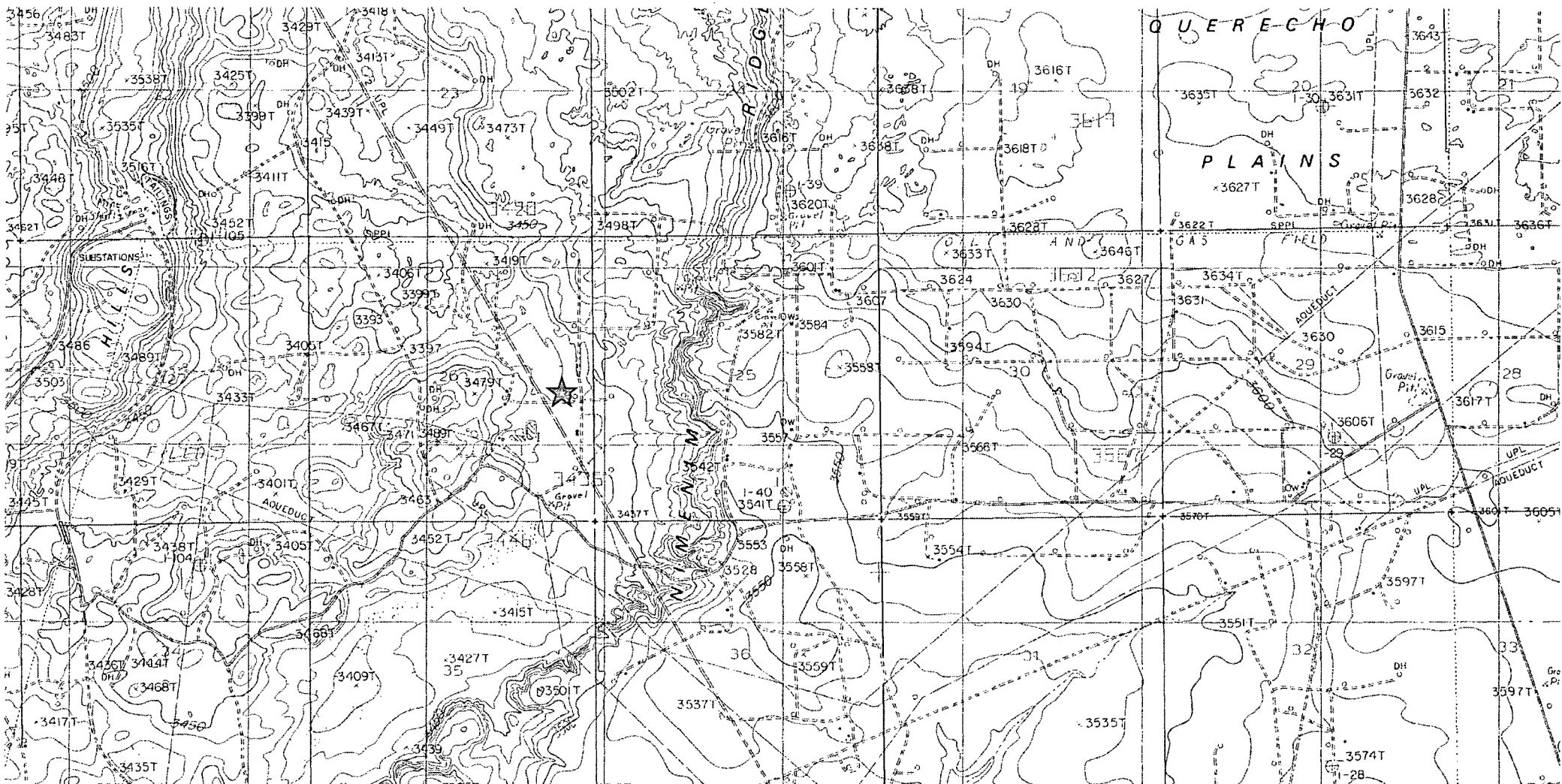
Improved Road . . . . .  
 Unimproved Road . . . . .  
 Trail . . . . .  
 Interstate Route } U.S. Route } State Route

HACKBERRY LAKE, NEW MEXICO  
 PROVISIONAL EDITION 1965

000416-72-2

44-38861-1000

# WFU #2 Battery





**Laboratory Analytical Results Summary**  
**Benson Shugart WFU #2**

		Sample	SP1 @ SURFACE	SP1 @ 1'
Analyte	Method	Date	8/6/13	8/6/13
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	<0.050
Toluene	BTEX 8021B		n/a	<0.050
Ethylbenzene	BTEX 8021B		n/a	<0.050
Total Xylenes	BTEX 8021B		n/a	<0.150
Total BTEX	BTEX 8021B		n/a	<0.300
Chloride	SM4500CI-B		3480	176
GRO	TPH 8015M		n/a	<10.0
DRO	TPH 8015M		n/a	23.5

		Sample	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'
Analyte	Method	Date	8/6/13	8/6/13	8/6/13
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	n/a	<0.050
Toluene	BTEX 8021B		n/a	n/a	<0.050
Ethylbenzene	BTEX 8021B		n/a	n/a	<0.050
Total Xylenes	BTEX 8021B		n/a	n/a	<0.150
Total BTEX	BTEX 8021B		n/a	n/a	<0.300
Chloride	SM4500CI-B		5360	176	32
GRO	TPH 8015M		n/a	n/a	<10.0
DRO	TPH 8015M		n/a	n/a	<10.0

		Sample	SP3 @ SURFACE	SP3 @ 1'
Analyte	Method	Date	8/6/13	8/6/13
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	<0.050
Toluene	BTEX 8021B		n/a	<0.050
Ethylbenzene	BTEX 8021B		n/a	<0.050
Total Xylenes	BTEX 8021B		n/a	<0.150
Total BTEX	BTEX 8021B		n/a	<0.300
Chloride	SM4500CI-B		1440	560
GRO	TPH 8015M		n/a	<10.0
DRO	TPH 8015M		n/a	<10.0

		Sample	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 1'
Analyte	Method	Date	8/6/13	8/6/13	8/6/13
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	n/a	n/a
Toluene	BTEX 8021B		n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		n/a	n/a	n/a
Total Xylenes	BTEX 8021B		n/a	n/a	n/a
Total BTEX	BTEX 8021B		n/a	n/a	n/a
Chloride	SM4500CI-B		3400	224	32
GRO	TPH 8015M		n/a	n/a	n/a
DRO	TPH 8015M		n/a	n/a	n/a

		Sample	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'
Analyte	Method	Date	8/22/13	8/22/13	8/22/13	8/22/13	8/22/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	<0.050	n/a	n/a	<0.050
Toluene	BTEX 8021B		n/a	<0.050	n/a	n/a	<0.050
Ethylbenzene	BTEX 8021B		n/a	<0.050	n/a	n/a	<0.050
Total Xylenes	BTEX 8021B		n/a	<0.150	n/a	n/a	<0.150
Total BTEX	BTEX 8021B		n/a	<0.300	n/a	n/a	<0.300
Chloride	SM4500CI-B		2160	32	<16.0	<16.0	<16.0
GRO	TPH 8015M		n/a	<50.0	n/a	n/a	<10.0
DRO	TPH 8015M		n/a	83.9	n/a	n/a	<10.0

		Sample	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	8/22/13	8/22/13	8/22/13	8/22/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	<0.050	n/a	<0.050
Toluene	BTEX 8021B		n/a	<0.050	n/a	<0.050
Ethylbenzene	BTEX 8021B		n/a	<0.050	n/a	<0.050
Total Xylenes	BTEX 8021B		n/a	<0.150	n/a	<0.150
Total BTEX	BTEX 8021B		n/a	<0.300	n/a	<0.300
Chloride	SM4500CI-B		2520	32	16	32
GRO	TPH 8015M		n/a	<50.0	n/a	<10.0
DRO	TPH 8015M		n/a	147	n/a	<10.0

		Sample	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	8/22/13	8/22/13	8/22/13	8/22/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	<0.050	n/a	<0.050
Toluene	BTEX 8021B		n/a	<0.050	n/a	<0.050
Ethylbenzene	BTEX 8021B		n/a	<0.050	n/a	<0.050
Total Xylenes	BTEX 8021B		n/a	<0.150	n/a	<0.150
Total BTEX	BTEX 8021B		n/a	<0.300	n/a	<0.300
Chloride	SM4500CI-B		2200	160	64	48
GRO	TPH 8015M		n/a	<10.0	n/a	<10.0
DRO	TPH 8015M		n/a	23.2	n/a	<10.0

		Sample	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 4'
Analyte	Method	Date	8/22/13	8/22/13	8/22/13	8/22/13	8/22/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	<0.050	n/a	n/a	<0.050
Toluene	BTEX 8021B		n/a	<0.050	n/a	n/a	<0.050
Ethylbenzene	BTEX 8021B		n/a	<0.050	n/a	n/a	<0.050
Total Xylenes	BTEX 8021B		n/a	<0.150	n/a	n/a	<0.150
Total BTEX	BTEX 8021B		n/a	<0.300	n/a	n/a	<0.300
Chloride	SM4500CI-B		2400	192	64	48	32
GRO	TPH 8015M		n/a	<10.0	n/a	n/a	<10.0
DRO	TPH 8015M		n/a	23.7	n/a	n/a	<10.0



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

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August 26, 2013

Cliff Brunson

BBC International, Inc. .

P.O. Box 805

Hobbs, NM 88241

RE: BENSON SHUGART WFU #2

Enclosed are the results of analyses for samples received by the laboratory on 08/13/13 12:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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,

Caley 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:	08/13/2013	Sampling Date:	08/06/2013
Reported:	08/26/2013	Sampling Type:	Soil
Project Name:	BENSON SHUGART WFU #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 1 @ SURFACE (H301912-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3480	16.0	08/14/2013	ND	448	112	400	11.3	

**Sample ID: SP 1 @ 1' (H301912-02)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2013	ND	1.97	98.7	2.00	1.33	
Toluene*	<0.050	0.050	08/19/2013	ND	1.95	97.7	2.00	1.04	
Ethylbenzene*	<0.050	0.050	08/19/2013	ND	1.90	95.0	2.00	1.00	
Total Xylenes*	<0.150	0.150	08/19/2013	ND	5.67	94.5	6.00	1.36	
Total BTEX	<0.300	0.300	08/19/2013	ND					

Surrogate: Dibromofluoromethane 95.7 % 61.3-142

Surrogate: Toluene-d8 103 % 71.3-129

Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

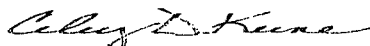
Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/14/2013	ND	448	112	400	11.3	

TPH 8015M		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/14/2013	ND	187	93.7	200	3.43	
DRO >C10-C28	23.5	10.0	08/14/2013	ND	203	102	200	3.21	

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	08/13/2013	Sampling Date:	08/06/2013
Reported:	08/26/2013	Sampling Type:	Soil
Project Name:	BENSON SHUGART WFU #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 1 @ 1' (H301912-02)**

TPH 8015M		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Surrogate: 1-Chlorooctane	93.2 %	65.2-140							
Surrogate: 1-Chlorooctadecane	108 %	63.6-154							

**Sample ID: SP 2 @ SURFACE (H301912-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5360	16.0	08/14/2013	ND	448	112	400	11.3	

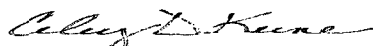
**Sample ID: SP 2 @ 1' (H301912-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	08/14/2013	ND	448	112	400	11.3		

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:	08/13/2013	Sampling Date:	08/06/2013
Reported:	08/26/2013	Sampling Type:	Soil
Project Name:	BENSON SHUGART WFU #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 2 @ 2' (H301912-05)**

BTEx 82608		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/19/2013	ND	1.97	98.7	2.00	1.33		
Toluene*	<0.050	0.050	08/19/2013	ND	1.95	97.7	2.00	1.04		
Ethylbenzene*	<0.050	0.050	08/19/2013	ND	1.90	95.0	2.00	1.00		
Total Xylenes*	<0.150	0.150	08/19/2013	ND	5.67	94.5	6.00	1.36		
Total BTEx	<0.300	0.300	08/19/2013	ND						

Surrogate: Dibromofluoromethane 94.2 % 61.3-142

Surrogate: Toluene-d8 104 % 71.3-129

Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/14/2013	ND	448	112	400	11.3	

TPH 8015M		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/14/2013	ND	187	93.7	200	3.43	
DRO >C10-C28	<10.0	10.0	08/14/2013	ND	203	102	200	3.21	

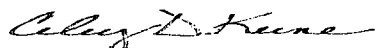
Surrogate: 1-Chlorooctane 86.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 63.6-154

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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:	08/13/2013	Sampling Date:	08/06/2013
Reported:	08/26/2013	Sampling Type:	Soil
Project Name:	BENSON SHUGART WFU #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

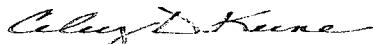
**Sample ID: SP 3 @ SURFACE (H301912-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	08/14/2013	ND	448	112	400	11.3	

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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: 08/13/2013  
Reported: 08/26/2013  
Project Name: BENSON SHUGART WFU #2  
Project Number: NONE GIVEN  
Project Location: LOCO HILLS, NM

Sampling Date: 08/06/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 1' (H301912-07)**

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/19/2013	ND	1.97	98.7	2.00	1.33		
Toluene*	<0.050	0.050	08/19/2013	ND	1.95	97.7	2.00	1.04		
Ethylbenzene*	<0.050	0.050	08/19/2013	ND	1.90	95.0	2.00	1.00		
Total Xylenes*	<0.150	0.150	08/19/2013	ND	5.67	94.5	6.00	1.36		
Total BTEX	<0.300	0.300	08/19/2013	ND						

Surrogate: Dibromofluoromethane 95.9 % 61.3-142  
Surrogate: Toluene-d8 101 % 71.3-129  
Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	08/14/2013	ND	448	112	400	11.3	

TPH 8015M		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/14/2013	ND	187	93.7	200	3.43	
DRO >C10-C28	<10.0	10.0	08/14/2013	ND	203	102	200	3.21	

Surrogate: 1-Chlorooctane 93.3 % 63.2-140  
Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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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:	08/13/2013	Sampling Date:	08/06/2013
Reported:	08/26/2013	Sampling Type:	Soil
Project Name:	BENSON SHUGART WFU #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 4 @ SURFACE (H301912-08)**

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	08/14/2013	ND	448	112	400	11.3	

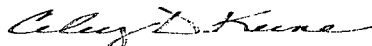
**Sample ID: SP 4 @ 1' (H301912-09)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/14/2013	ND	448	112	400	11.3	

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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:	08/13/2013	Sampling Date:	08/06/2013
Reported:	08/26/2013	Sampling Type:	Soil
Project Name:	BENSON SHUGART WFU #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 4 @ 2' (H301912-10)**

BTEX 82608		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2013	ND	1.97	98.7	2.00	1.33	
Toluene*	<0.050	0.050	08/19/2013	ND	1.95	97.7	2.00	1.04	
Ethylbenzene*	<0.050	0.050	08/19/2013	ND	1.90	95.0	2.00	1.00	
Total Xylenes*	<0.150	0.150	08/19/2013	ND	5.67	94.5	6.00	1.36	
Total BTEX	<0.300	0.300	08/19/2013	ND					

Surrogate: Dibromofluoromethane 96.8 % 61.3-142  
 Surrogate: Toluene-d8 102 % 71.3-129  
 Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/14/2013	ND	448	112	400	11.3	

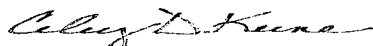
TPH 8015M		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/14/2013	ND	187	93.7	200	3.43	
DRO >C10-C28	<10.0	10.0	08/14/2013	ND	203	102	200	3.21	

Surrogate: 1-Chlorooctane 95.9 % 65.2-140  
 Surrogate: 1-Chlorooctadecane 109 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

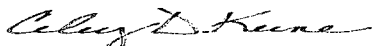
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

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Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 10 of 10

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Relinquished By: <i>[Signature]</i>		Date: <i>8/6/13</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
		Time: <i>5:00 PM</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <i>[Signature]</i>		Date: <i>8/13/13</i>	Received By: <i>Jodi Benson</i>	REMARKS:	
		Time: <i>12:40</i>			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition: Cool - Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CHECKED BY: <i>[Signature]</i>		

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

#54



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

---

September 03, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: BENSON SHUGART WFU #2

Enclosed are the results of analyses for samples received by the laboratory on 08/23/13 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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](http://www.tceq.texas.gov/field/ga/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:	08/23/2013	Sampling Date:	08/22/2013
Reported:	09/03/2013	Sampling Type:	Soil
Project Name:	BENSON SHUGART WFU #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 1 @ SURFACE (H302041-01)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	08/29/2013	ND	432	108	400	0.00	

**Sample ID: SP 1 @ 1' (H302041-02)**

BTX 8021B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2013	ND	2.00	99.9	2.00	4.14	
Toluene*	<0.050	0.050	08/29/2013	ND	1.96	98.2	2.00	6.66	
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	1.96	98.0	2.00	11.6	
Total Xylenes*	<0.150	0.150	08/29/2013	ND	5.84	97.3	6.00	10.2	
Total BTX	<0.300	0.300	08/29/2013	ND					

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

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/29/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: AR/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	08/30/2013	ND	209	105	200	2.74	
DRO >C10-C28	83.9	50.0	08/30/2013	ND	209	104	200	4.45	

Surrogate: 1-Chlorooctane 90.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

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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:	08/23/2013	Sampling Date:	08/22/2013
Reported:	09/03/2013	Sampling Type:	Soil
Project Name:	BENSON SHUGART WFU #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 1 @ 2' (H302041-03)**

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	08/30/2013	ND	416	104	400	0.00		


**Sample ID: SP 1 @ 3' (H302041-04)**

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	08/30/2013	ND	416	104	400	0.00		

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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:	08/23/2013	Sampling Date:	08/22/2013
Reported:	09/03/2013	Sampling Type:	Soil
Project Name:	BENSON SHUGART WFU #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 1 @ 4' (H302041-05)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2013	ND	2.00	99.9	2.00	4.14		
Toluene*	<0.050	0.050	08/29/2013	ND	1.96	98.2	2.00	6.66		
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	1.96	98.0	2.00	11.6		
Total Xylenes*	<0.150	0.150	08/29/2013	ND	5.84	97.3	6.00	10.2		
Total BTEX	<0.300	0.300	08/29/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 102 % 89.4-126

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	08/30/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AR/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/30/2013	ND	209	105	200	2.74		
DRO >C10-C28	<10.0	10.0	08/30/2013	ND	209	104	200	4.45		

Surrogate: 1-Chlorooctane 98.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

**Sample ID: SP 2 @ SURFACE (H302041-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2520	16.0	08/30/2013	ND	416	104	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:	08/23/2013	Sampling Date:	08/22/2013
Reported:	09/03/2013	Sampling Type:	Soil
Project Name:	BENSON SHUGART WFU #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 2 @ 1' (H302041-07)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2013	ND	2.00	99.9	2.00	4.14		
Toluene*	<0.050	0.050	08/29/2013	ND	1.96	98.2	2.00	6.66		
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	1.96	98.0	2.00	11.6		
Total Xylenes*	<0.150	0.150	08/29/2013	ND	5.84	97.3	6.00	10.2		
Total BTEX	<0.300	0.300	08/29/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 99.5 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/30/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AR/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	08/30/2013	ND	209	105	200	2.74		
DRO >C10-C28	147	50.0	08/30/2013	ND	209	104	200	4.45		

Surrogate: 1-Chlorooctane 98.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 127 % 63.6-154


**Sample ID: SP 2 @ 2' (H302041-08)**

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	08/30/2013	ND	416	104	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:	08/23/2013	Sampling Date:	08/22/2013
Reported:	09/03/2013	Sampling Type:	Soil
Project Name:	BENSON SHUGART WFU #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 2 @ 3' (H302041-09)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2013	ND	2.00	99.9	2.00	4.14		
Toluene*	<0.050	0.050	08/29/2013	ND	1.96	98.2	2.00	6.66		
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	1.96	98.0	2.00	11.6		
Total Xylenes*	<0.150	0.150	08/29/2013	ND	5.84	97.3	6.00	10.2		
Total BTEX	<0.300	0.300	08/29/2013	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/30/2013	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: AR/					

TPH 8015M		mg/kg		Analyzed By: AR/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/30/2013	ND	209	105	200	2.74	
DRO >C10-C28	<10.0	10.0	08/30/2013	ND	209	104	200	4.45	

Surrogate: 1-Chlorooctane 103 % 63.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154


**Sample ID: SP 3 @ SURFACE (H302041-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	08/30/2013	ND	416	104	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: 08/23/2013  
Reported: 09/03/2013  
Project Name: BENSON SHUGART WFU #2  
Project Number: NONE GIVEN  
Project Location: LOCO HILLS, NM

Sampling Date: 08/22/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 1' (H302041-11)**

BTX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2013	ND	2.00	99.9	2.00	4.14	
Toluene*	<0.050	0.050	08/29/2013	ND	1.96	98.2	2.00	6.66	
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	1.96	98.0	2.00	11.6	
Total Xylenes*	<0.150	0.150	08/29/2013	ND	5.84	97.3	6.00	10.2	
Total BTX	<0.300	0.300	08/29/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 100 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/30/2013	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: AR/					

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/30/2013	ND	209	105	200	2.74	
DRO >C10-C28	23.2	10.0	08/30/2013	ND	209	104	200	4.45	

Surrogate: 1-Chlorooctane 109 % 63.2-140

Surrogate: 1-Chlorooctadecane 118 % 63.6-154

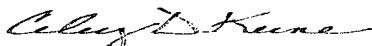
**Sample ID: SP 3 @ 2' (H302041-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/30/2013	ND	416	104	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: 08/23/2013  
Reported: 09/03/2013  
Project Name: BENSON SHUGART WFU #2  
Project Number: NONE GIVEN  
Project Location: LOCO HILLS, NM

Sampling Date: 08/22/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 3' (H302041-13)**

BTEX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2013	ND	2.00	99.9	2.00	4.14	
Toluene*	<0.050	0.050	08/29/2013	ND	1.96	98.2	2.00	6.66	
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	1.96	98.0	2.00	11.6	
Total Xylenes*	<0.150	0.150	08/29/2013	ND	5.84	97.3	6.00	10.2	
Total BTEX	<0.300	0.300	08/29/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 89.4-126

Chloride, SM4500Cl-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	08/30/2013	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AR/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/30/2013	ND	209	105	200	2.74	
DRO >C10-C28	<10.0	10.0	08/30/2013	ND	209	104	200	4.45	

Surrogate: 1-Chlorooctane 116 % 63.2-140

Surrogate: 1-Chlorooctadecane 124 % 63.6-154

**Sample ID: SP 4 @ SURFACE (H302041-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	08/30/2013	ND	416	104	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:	08/23/2013	Sampling Date:	08/22/2013
Reported:	09/03/2013	Sampling Type:	Soil
Project Name:	BENSON SHUGART WFU #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 4 @ 1' (H302041-15)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2013	ND	2.00	99.9	2.00	4.14		
Toluene*	<0.050	0.050	08/29/2013	ND	1.96	98.2	2.00	6.66		
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	1.96	98.0	2.00	11.6		
Total Xylenes*	<0.150	0.150	08/29/2013	ND	5.84	97.3	6.00	10.2		
Total BTEX	<0.300	0.300	08/29/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 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	192	16.0	08/30/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AR/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/30/2013	ND	209	105	200	2.74		
DRO >C10-C28	23.7	10.0	08/30/2013	ND	209	104	200	4.45		

Surrogate: 1-Chlorooctane 100 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

**Sample ID: SP 4 @ 2' (H302041-16)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/30/2013	ND	416	104	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: 08/23/2013  
 Reported: 09/03/2013  
 Project Name: BENSON SHUGART WFU #2  
 Project Number: NONE GIVEN  
 Project Location: LOCO HILLS, NM

 Sampling Date: 08/22/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 3' (H302041-17)**

Chloride, SM4500Cl-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	08/30/2013	ND	416	104	400	0.00	

**Sample ID: SP 4 @ 4' (H302041-18)**

BTX 8021B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2013	ND	2.00	99.9	2.00	4.14	
Toluene*	<0.050	0.050	08/29/2013	ND	1.96	98.2	2.00	6.66	
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	1.96	98.0	2.00	11.6	
Total Xylenes*	<0.150	0.150	08/29/2013	ND	5.84	97.3	6.00	10.2	
Total BTX	<0.300	0.300	08/29/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 107 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/30/2013	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: AR/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/30/2013	ND	209	105	200	2.74	
DRO >C10-C28	<10.0	10.0	08/30/2013	ND	209	104	200	4.45	

Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 114 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

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

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Celey D. Keene, Lab Director/Quality Manager



1 of 2

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Relinquished By: <i>[Signature]</i>		Date: <i>8-23-13</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
		Time: <i>4:17</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <i>[Signature]</i>		Date: <i>8-23-13</i>	Received By: <i>[Signature]</i>	REMARKS:	
		Time: <i>4:20</i>			
Delivered By: (Circle One)		Sample Condition		CHECKED BY:	
Sampler - UPS - Bus - Other:		Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/>		(Initials)	
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<i>[Signature]</i>	

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

#54



# CARDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of

Page 13 of 13

Company Name: BBC International, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																			
Project Manager: Cliff Brunson				P.O. #:				<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">CHLORIDE</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> </div>																			
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: Chevron		City:																							
Project Name:				State: Zip:																							
Project Location: Benson Spugart				Phone #:																							
Sampler Name: Roger Hernandez				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.		GRAB OR (COMP. # CONTAINERS)		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE:		TIME	
H302041																											
11		SP3 @ 1'		G1																							
12		@ 2'		G1																							
13		@ 3'		G1																							
14		SP4 @ SURFACE		G1																							
15		@ 1'		G1																							
16		@ 2'		G1																							
17		@ 3'		G1																							
18		@ 4'		G1																							

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Relinquished By: Roger Hernandez		Date: 8-22-13		Received By: S-J-Rob		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
		Time: 4:12				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By: S-J-Rob		Date: 8-23-13		Received By: Jodi Benson		REMARKS:			
		Time: 4:20							
Delivered By: (Circle One)				Sample Condition		CHECKED BY: (Initials)			
Sampler - UPS - Bus - Other:				Cool Intact		JTB			
				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					

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

#54



## Kathy Purvis

---

**From:** Cliff P. Brunson <cbrunson@bbcinternational.com>  
**Sent:** Friday, September 20, 2013 2:38 PM  
**To:** Bradley Blevins  
**Cc:** Ken Swinney; Kathy Purvis; Jennifer Gilkey  
**Subject:** FW: Chevron-Benson Shugart WFU #2 Battery-Remediation Plan

Brad,

See BLM approval below.

Cliff P. Brunson, CEI, CRS  
President  
BBC International, Inc.  
World-Wide Environmental Specialists  
Mailing Address:  
P. O. Box 805  
Hobbs, NM 88241-0805 USA  
Shipping Address:  
1324 W. Marland St.  
Hobbs, NM 88240 USA  
Phone: (575) 397-6388  
Fax: (575) 397-0397  
E-Mail: [cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)

\*\*\*\*\*  
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\*\*\*\*\*

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**From:** Mike Burton <[mburton@blm.gov](mailto:mburton@blm.gov)>  
**Date:** Friday, September 20, 2013 2:35 PM  
**To:** Cliff Brunson <[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)>  
**Subject:** Re: Chevron-Benson Shugart WFU #2 Battery-Remediation Plan

Cliff,  
This plan is approved as written.  
Thanks

**Mike Burton**  
**BLM-CFO**  
**Environmental Protection Specialist**  
**575-234-2226 office**  
**575-361-3574 cell**  
**[mburton@blm.gov](mailto:mburton@blm.gov)**

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On Fri, Sep 20, 2013 at 12:06 PM, Cliff P. Brunson <[cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)> wrote:  
Mike,

I met with Mike Bratcher of the NMOCD and he has approved the following remediation plan for the leak at this site. I have attached the documentation that Mike and I used in our discussion. As you know we have conducted an archeological study on the West side of the battery. Chevron proposes a 1 foot excavation across the entire leak area. The area to the West depicted by the yellow sample points on the drawing will be hand excavated and backfilled. There will be an archeologist on site the whole time while operations are conducted in this area to maintain that the soil removal does not disturb any sensitive area.

Chevron is therefore requesting the approval from the BLM to conduct this remediation. If you would please respond back via e-mail with the approval to proceed, it would be greatly appreciated. If you have any questions, please let us know.

Thank you,

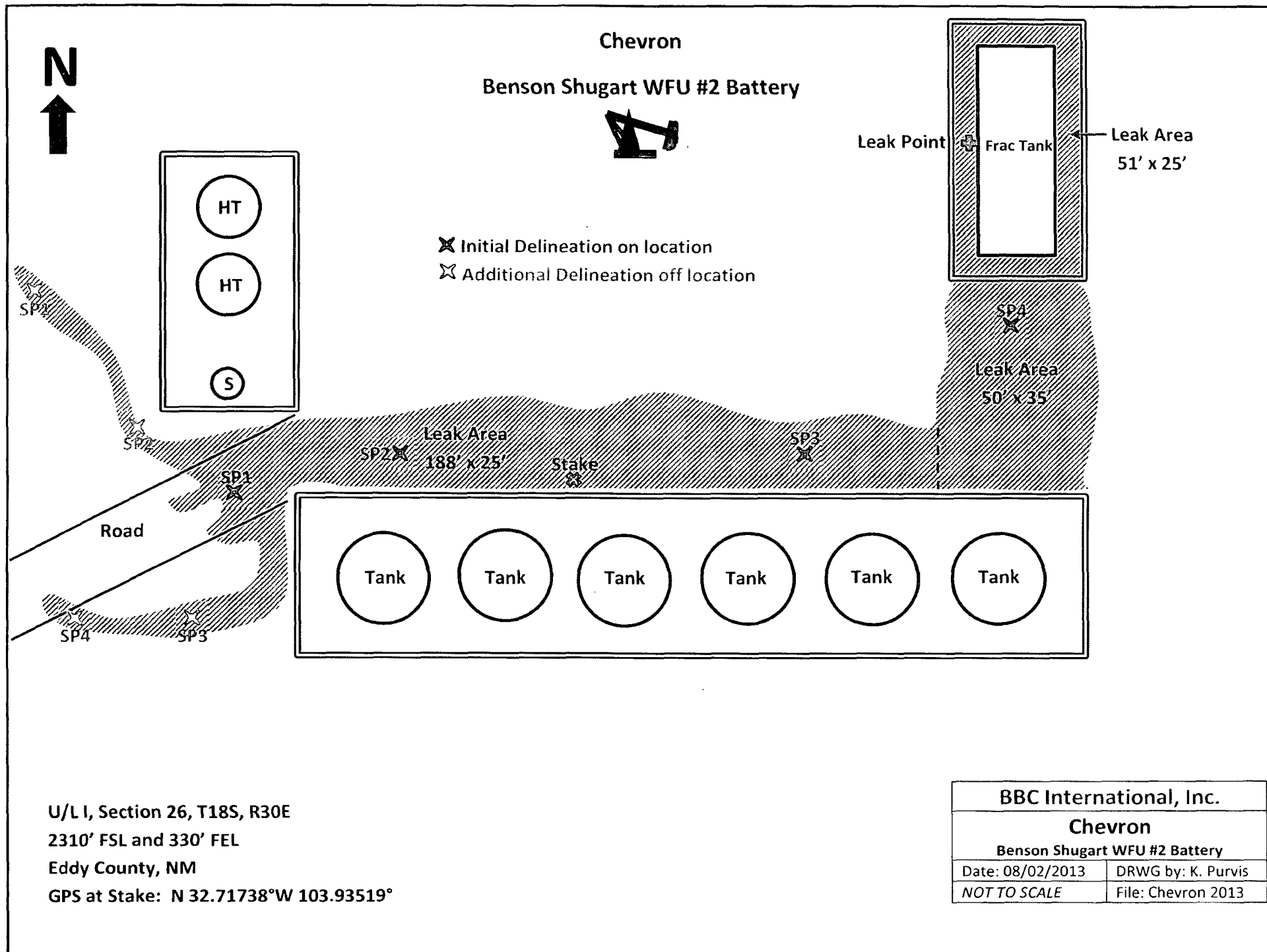
Cliff

Cliff P. Brunson, CEI, CRS  
President  
BBC International, Inc.  
World-Wide Environmental Specialists  
Mailing Address:  
P. O. Box 805  
Hobbs, NM 88241-0805 USA  
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Phone: (575) 397-6388  
Fax: (575) 397-0397  
E-Mail: [cbrunson@bbcinternational.com](mailto:cbrunson@bbcinternational.com)

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# Groundwater Plot

## Chevron Benson Shugart WFU #2 Battery

County  
EddyY

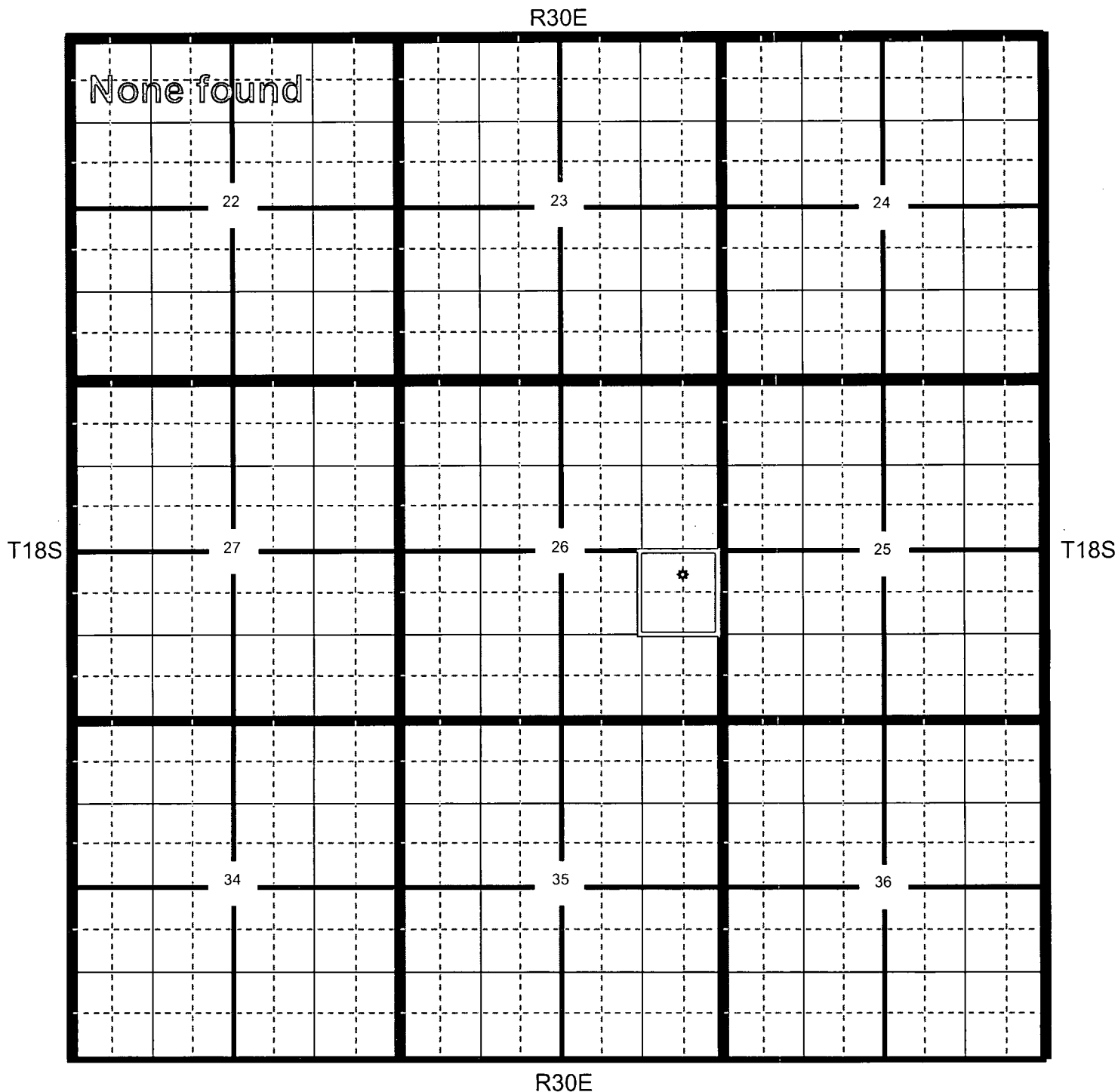
Unit Letter  
I

Section  
26

Township  
18S

Range  
30E

Trend Map 175'-200'



★ Location

○ OCD

○ USGS

○ SEO

● All Databases



# Section Quarters

## Chevron Benson Shugart WFU #2 Btry

County	Unit Letter	Section	Township	Range
Eddy	I	26	18S	30E

Trend Map 175'-200'

1

2

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

3

4

★ Location      ○ OCD      ○ USGS      ○ SEO      ● All Databases

**Laboratory Analytical Results Summary  
Benson Shugart WFU #2**

		Sample	SP1 @ SURFACE	SP1 @ 1'
Analyte	Method	Date	8/6/13	8/6/13
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	<0.050
Toluene	BTEX 8021B		n/a	<0.050
Ethylbenzene	BTEX 8021B		n/a	<0.050
Total Xylenes	BTEX 8021B		n/a	<0.150
Total BTEX	BTEX 8021B		n/a	<0.300
Chloride	SM4500Cl-B		3480	176
GRO	TPH 8015M		n/a	<10.0
DRO	TPH 8015M		n/a	23.5

		Sample	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'
Analyte	Method	Date	8/6/13	8/6/13	8/6/13
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	n/a	<0.050
Toluene	BTEX 8021B		n/a	n/a	<0.050
Ethylbenzene	BTEX 8021B		n/a	n/a	<0.050
Total Xylenes	BTEX 8021B		n/a	n/a	<0.150
Total BTEX	BTEX 8021B		n/a	n/a	<0.300
Chloride	SM4500Cl-B		5360	176	32
GRO	TPH 8015M		n/a	n/a	<10.0
DRO	TPH 8015M		n/a	n/a	<10.0

		Sample	SP3 @ SURFACE	SP3 @ 1'
Analyte	Method	Date	8/6/13	8/6/13
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	<0.050
Toluene	BTEX 8021B		n/a	<0.050
Ethylbenzene	BTEX 8021B		n/a	<0.050
Total Xylenes	BTEX 8021B		n/a	<0.150
Total BTEX	BTEX 8021B		n/a	<0.300
Chloride	SM4500Cl-B		1440	560
GRO	TPH 8015M		n/a	<10.0
DRO	TPH 8015M		n/a	<10.0

		Sample	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 1'
Analyte	Method	Date	8/6/13	8/6/13	8/6/13
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	n/a	n/a
Toluene	BTEX 8021B		n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		n/a	n/a	n/a
Total Xylenes	BTEX 8021B		n/a	n/a	n/a
Total BTEX	BTEX 8021B		n/a	n/a	n/a
Chloride	SM4500Cl-B		3400	224	32
GRO	TPH 8015M		n/a	n/a	n/a
DRO	TPH 8015M		n/a	n/a	n/a

		Sample	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'
Analyte	Method	Date	8/22/13	8/22/13	8/22/13	8/22/13	8/22/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	<0.050	n/a	n/a	<0.050
Toluene	BTEX 8021B		n/a	<0.050	n/a	n/a	<0.050
Ethylbenzene	BTEX 8021B		n/a	<0.050	n/a	n/a	<0.050
Total Xylenes	BTEX 8021B		n/a	<0.150	n/a	n/a	<0.150
Total BTEX	BTEX 8021B		n/a	<0.300	n/a	n/a	<0.300
Chloride	SM4500Cl-B		2160	32	<16.0	<16.0	<16.0
GRO	TPH 8015M		n/a	<50.0	n/a	n/a	<10.0
DRO	TPH 8015M		n/a	83.9	n/a	n/a	<10.0

		Sample	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	8/22/13	8/22/13	8/22/13	8/22/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	<0.050	n/a	<0.050
Toluene	BTEX 8021B		n/a	<0.050	n/a	<0.050
Ethylbenzene	BTEX 8021B		n/a	<0.050	n/a	<0.050
Total Xylenes	BTEX 8021B		n/a	<0.150	n/a	<0.150
Total BTEX	BTEX 8021B		n/a	<0.300	n/a	<0.300
Chloride	SM4500Cl-B		2520	32	16	32
GRO	TPH 8015M		n/a	<50.0	n/a	<10.0
DRO	TPH 8015M		n/a	147	n/a	<10.0

		Sample	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'
Analyte	Method	Date	8/22/13	8/22/13	8/22/13	8/22/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	<0.050	n/a	<0.050
Toluene	BTEX 8021B		n/a	<0.050	n/a	<0.050
Ethylbenzene	BTEX 8021B		n/a	<0.050	n/a	<0.050
Total Xylenes	BTEX 8021B		n/a	<0.150	n/a	<0.150
Total BTEX	BTEX 8021B		n/a	<0.300	n/a	<0.300
Chloride	SM4500Cl-B		2200	160	64	48
GRO	TPH 8015M		n/a	<10.0	n/a	<10.0
DRO	TPH 8015M		n/a	23.2	n/a	<10.0

		Sample	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 4'
Analyte	Method	Date	8/22/13	8/22/13	8/22/13	8/22/13	8/22/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		n/a	<0.050	n/a	n/a	<0.050
Toluene	BTEX 8021B		n/a	<0.050	n/a	n/a	<0.050
Ethylbenzene	BTEX 8021B		n/a	<0.050	n/a	n/a	<0.050
Total Xylenes	BTEX 8021B		n/a	<0.150	n/a	n/a	<0.150
Total BTEX	BTEX 8021B		n/a	<0.300	n/a	n/a	<0.300
Chloride	SM4500Cl-B		2400	192	64	48	32
GRO	TPH 8015M		n/a	<10.0	n/a	n/a	<10.0
DRO	TPH 8015M		n/a	23.7	n/a	n/a	<10.0



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

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August 26, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: BENSON SHUGART WFU #2

Enclosed are the results of analyses for samples received by the laboratory on 08/13/13 12:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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:	08/13/2013	Sampling Date:	08/06/2013
Reported:	08/26/2013	Sampling Type:	Soil
Project Name:	BENSON SHUGART WFU #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 1 @ SURFACE (H301912-01)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3480	16.0	08/14/2013	ND	448	112	400	11.3	

**Sample ID: SP 1 @ 1' (H301912-02)**

BTEX 8260B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2013	ND	1.97	98.7	2.00	1.33	
Toluene*	<0.050	0.050	08/19/2013	ND	1.95	97.7	2.00	1.04	
Ethylbenzene*	<0.050	0.050	08/19/2013	ND	1.90	95.0	2.00	1.00	
Total Xylenes*	<0.150	0.150	08/19/2013	ND	5.67	94.5	6.00	1.36	
Total BTEX	<0.300	0.300	08/19/2013	ND					

Surrogate: Dibromofluoromethane 95.7 % 61.3-142

Surrogate: Toluene-d8 103 % 71.3-129

Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

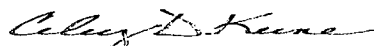
Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/14/2013	ND	448	112	400	11.3	

TPH 8015M		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/14/2013	ND	187	93.7	200	3.43	
DRO >C10-C28	23.5	10.0	08/14/2013	ND	203	102	200	3.21	

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:	08/13/2013	Sampling Date:	08/06/2013
Reported:	08/26/2013	Sampling Type:	Soil
Project Name:	BENSON SHUGART WFU #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 1 @ 1' (H301912-02)**

TPH 8015M		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Surrogate: 1-Chlorooctane	93.2 %	65.2-140							
Surrogate: 1-Chlorooctadecane	108 %	63.6-154							

**Sample ID: SP 2 @ SURFACE (H301912-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5360	16.0	08/14/2013	ND	448	112	400	11.3	

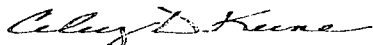
**Sample ID: SP 2 @ 1' (H301912-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/14/2013	ND	448	112	400	11.3	

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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:	08/13/2013	Sampling Date:	08/06/2013
Reported:	08/26/2013	Sampling Type:	Soil
Project Name:	BENSON SHUGART WFU #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 2 @ 2' (H301912-05)**

BTEX 8260B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/19/2013	ND	1.97	98.7	2.00	1.33		
Toluene*	<0.050	0.050	08/19/2013	ND	1.95	97.7	2.00	1.04		
Ethylbenzene*	<0.050	0.050	08/19/2013	ND	1.90	95.0	2.00	1.00		
Total Xylenes*	<0.150	0.150	08/19/2013	ND	5.67	94.5	6.00	1.36		
Total BTEX	<0.300	0.300	08/19/2013	ND						

Surrogate: Dibromofluoromethane 94.2 % 61.3-142

Surrogate: Toluene-d8 104 % 71.3-129

Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/14/2013	ND	448	112	400	11.3		

TPH 8015M		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/14/2013	ND	187	93.7	200	3.43		
DRO >C10-C28	<10.0	10.0	08/14/2013	ND	203	102	200	3.21		

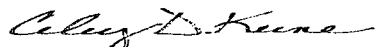
Surrogate: 1-Chlorooctane 86.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 63.6-154

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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:	08/13/2013	Sampling Date:	08/06/2013
Reported:	08/26/2013	Sampling Type:	Soil
Project Name:	BENSON SHUGART WFU #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

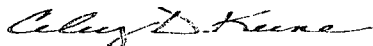
**Sample ID: SP 3 @ SURFACE (H301912-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	08/14/2013	ND	448	112	400	11.3	

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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:	08/13/2013	Sampling Date:	08/06/2013
Reported:	08/26/2013	Sampling Type:	Soil
Project Name:	BENSON SHUGART WFU #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 3 @ 1' (H301912-07)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2013	ND	1.97	98.7	2.00	1.33	
Toluene*	<0.050	0.050	08/19/2013	ND	1.95	97.7	2.00	1.04	
Ethylbenzene*	<0.050	0.050	08/19/2013	ND	1.90	95.0	2.00	1.00	
Total Xylenes*	<0.150	0.150	08/19/2013	ND	5.67	94.5	6.00	1.36	
Total BTEX	<0.300	0.300	08/19/2013	ND					

Surrogate: Dibromofluoromethane 95.9 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	08/14/2013	ND	448	112	400	11.3	

TPH 8015M		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/14/2013	ND	187	93.7	200	3.43	
DRO >C10-C28	<10.0	10.0	08/14/2013	ND	203	102	200	3.21	

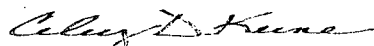
Surrogate: 1-Chlorooctane 93.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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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:	08/13/2013	Sampling Date:	08/06/2013
Reported:	08/26/2013	Sampling Type:	Soil
Project Name:	BENSON SHUGART WFU #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 4 @ SURFACE (H301912-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3400	16.0	08/14/2013	ND	448	112	400	11.3		

**Sample ID: SP 4 @ 1' (H301912-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	08/14/2013	ND	448	112	400	11.3		

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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: 08/13/2013  
 Reported: 08/26/2013  
 Project Name: BENSON SHUGART WFU #2  
 Project Number: NONE GIVEN  
 Project Location: LOCO HILLS, NM

 Sampling Date: 08/06/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 4 @ 2' (H301912-10)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/19/2013	ND	1.97	98.7	2.00	1.33	
Toluene*	<0.050	0.050	08/19/2013	ND	1.95	97.7	2.00	1.04	
Ethylbenzene*	<0.050	0.050	08/19/2013	ND	1.90	95.0	2.00	1.00	
Total Xylenes*	<0.150	0.150	08/19/2013	ND	5.67	94.5	6.00	1.36	
Total BTEX	<0.300	0.300	08/19/2013	ND					

Surrogate: Dibromofluoromethane 96.8 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/14/2013	ND	448	112	400	11.3	

TPH 8015M		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/14/2013	ND	187	93.7	200	3.43	
DRO >C10-C28	<10.0	10.0	08/14/2013	ND	203	102	200	3.21	

Surrogate: 1-Chlorooctane 95.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

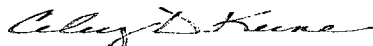
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

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Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 10 of 10

PLEASE NOTE: 11/20/2019 and Damages: Current liability and claims coverage remedy for any claim arising whether based in contract or tort shall be limited to the amount paid by the claimant for the actual damages sustained. Damages shall include reasonable attorneys' fees and costs. Damages shall not include punitive damages, interest, or any other cause whatsoever shall be deemed unless specifically written and received by Cardinal within 30 days after completion of the applicable coverage. In the event that claims are made for incidents of consequential damages, including without limitation business interruption, loss of use, loss of profits, or incurred by claimant's subsidiaries or affiliates, the claimant shall be responsible for the payment of such damages.

Relinquished By: <i>[Signature]</i>		Date: <i>8/13/13</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
		Time: <i>5:00 PM</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:
ReInquished By: <i>[Signature]</i>		Date: <i>8/13/13</i>	Received By: <i>[Signature]</i>	REMARKS:
		Time: <i>12:40</i>	<i>Jodi Benson</i>	
Delivered By: (Circle One)		Sample Condition:	CHECKED BY:	
Sampler - UPS - Bus - Other:		Cool - Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>[Signature]</i>	
		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		

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

#54





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

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September 03, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: BENSON SHUGART WFU #2

Enclosed are the results of analyses for samples received by the laboratory on 08/23/13 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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](http://www.tceq.texas.gov/field/ga/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:	08/23/2013	Sampling Date:	08/22/2013
Reported:	09/03/2013	Sampling Type:	Soil
Project Name:	BENSON SHUGART WFU #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 1 @ SURFACE (H302041-01)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	08/29/2013	ND	432	108	400	0.00	

**Sample ID: SP 1 @ 1' (H302041-02)**

BTEX 8021B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2013	ND	2.00	99.9	2.00	4.14	
Toluene*	<0.050	0.050	08/29/2013	ND	1.96	98.2	2.00	6.66	
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	1.96	98.0	2.00	11.6	
Total Xylenes*	<0.150	0.150	08/29/2013	ND	5.84	97.3	6.00	10.2	
Total BTEX	<0.300	0.300	08/29/2013	ND					

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

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/29/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: AR/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	08/30/2013	ND	209	105	200	2.74	
DRO >C10-C28	83.9	50.0	08/30/2013	ND	209	104	200	4.45	

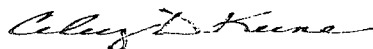
Surrogate: 1-Chlorooctane 90.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 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:	08/23/2013	Sampling Date:	08/22/2013
Reported:	09/03/2013	Sampling Type:	Soil
Project Name:	BENSON SHUGART WFU #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 1 @ 2' (H302041-03)**

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	08/30/2013	ND	416	104	400	0.00	

**Sample ID: SP 1 @ 3' (H302041-04)**

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	08/30/2013	ND	416	104	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:	08/23/2013	Sampling Date:	08/22/2013
Reported:	09/03/2013	Sampling Type:	Soil
Project Name:	BENSON SHUGART WFU #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

#### Sample ID: SP 1 @ 4' (H302041-05)

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2013	ND	2.00	99.9	2.00	4.14		
Toluene*	<0.050	0.050	08/29/2013	ND	1.96	98.2	2.00	6.66		
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	1.96	98.0	2.00	11.6		
Total Xylenes*	<0.150	0.150	08/29/2013	ND	5.84	97.3	6.00	10.2		
Total BTEX	<0.300	0.300	08/29/2013	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

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	08/30/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AR/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/30/2013	ND	209	105	200	2.74	
DRO >C10-C28	<10.0	10.0	08/30/2013	ND	209	104	200	4.45	

Surrogate: 1-Chlorooctane 98.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

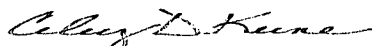
#### Sample ID: SP 2 @ SURFACE (H302041-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2520	16.0	08/30/2013	ND	416	104	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:	08/23/2013	Sampling Date:	08/22/2013
Reported:	09/03/2013	Sampling Type:	Soil
Project Name:	BENSON SHUGART WFU #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 2 @ 1' (H302041-07)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2013	ND	2.00	99.9	2.00	4.14		
Toluene*	<0.050	0.050	08/29/2013	ND	1.96	98.2	2.00	6.66		
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	1.96	98.0	2.00	11.6		
Total Xylenes*	<0.150	0.150	08/29/2013	ND	5.84	97.3	6.00	10.2		
Total BTEX	<0.300	0.300	08/29/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 99.5 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/30/2013	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: AR/						

TPH 8015M		mg/kg		Analyzed By: AR/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	08/30/2013	ND	209	105	200	2.74	
DRO >C10-C28	147	50.0	08/30/2013	ND	209	104	200	4.45	

Surrogate: 1-Chlorooctane 98.2 % 63.2-140

Surrogate: 1-Chlorooctadecane 127 % 63.6-154

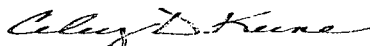
**Sample ID: SP 2 @ 2' (H302041-08)**

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	08/30/2013	ND	416	104	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:	08/23/2013	Sampling Date:	08/22/2013
Reported:	09/03/2013	Sampling Type:	Soil
Project Name:	BENSON SHUGART WFU #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 2 @ 3' (H302041-09)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2013	ND	2.00	99.9	2.00	4.14		
Toluene*	<0.050	0.050	08/29/2013	ND	1.96	98.2	2.00	6.66		
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	1.96	98.0	2.00	11.6		
Total Xylenes*	<0.150	0.150	08/29/2013	ND	5.84	97.3	6.00	10.2		
Total BTEX	<0.300	0.300	08/29/2013	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/30/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AR/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/30/2013	ND	209	105	200	2.74		
DRO >C10-C28	<10.0	10.0	08/30/2013	ND	209	104	200	4.45		

Surrogate: 1-Chlorooctane 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

**Sample ID: SP 3 @ SURFACE (H302041-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2200	16.0	08/30/2013	ND	416	104	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: 08/23/2013  
 Reported: 09/03/2013  
 Project Name: BENSON SHUGART WFU #2  
 Project Number: NONE GIVEN  
 Project Location: LOCO HILLS, NM

 Sampling Date: 08/22/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 @ 1' (H302041-11)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2013	ND	2.00	99.9	2.00	4.14		
Toluene*	<0.050	0.050	08/29/2013	ND	1.96	98.2	2.00	6.66		
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	1.96	98.0	2.00	11.6		
Total Xylenes*	<0.150	0.150	08/29/2013	ND	5.84	97.3	6.00	10.2		
Total BTEX	<0.300	0.300	08/29/2013	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/30/2013	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: AR/					

TPH 8015M		mg/kg		Analyzed By: AR/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/30/2013	ND	209	105	200	2.74	
DRO >C10-C28	23.2	10.0	08/30/2013	ND	209	104	200	4.45	

Surrogate: 1-Chlorooctane 109 % 65.2-140

Surrogate: 1-Chlorooctadecane 118 % 63.6-154

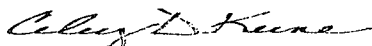
**Sample ID: SP 3 @ 2' (H302041-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/30/2013	ND	416	104	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:	08/23/2013	Sampling Date:	08/22/2013
Reported:	09/03/2013	Sampling Type:	Soil
Project Name:	BENSON SHUGART WFU #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 3 @ 3' (H302041-13)**

BTEx 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2013	ND	2.00	99.9	2.00	4.14		
Toluene*	<0.050	0.050	08/29/2013	ND	1.96	98.2	2.00	6.66		
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	1.96	98.0	2.00	11.6		
Total Xylenes*	<0.150	0.150	08/29/2013	ND	5.84	97.3	6.00	10.2		
Total BTEx	<0.300	0.300	08/29/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 89.4-126

Chloride, SM4500Cl-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	08/30/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AR/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/30/2013	ND	209	105	200	2.74		
DRO >C10-C28	<10.0	10.0	08/30/2013	ND	209	104	200	4.45		

Surrogate: 1-Chlorooctane 116 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 63.6-154

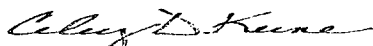
**Sample ID: SP 4 @ SURFACE (H302041-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2400	16.0	08/30/2013	ND	416	104	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:	08/23/2013	Sampling Date:	08/22/2013
Reported:	09/03/2013	Sampling Type:	Soil
Project Name:	BENSON SHUGART WFU #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 4 @ 1' (H302041-15)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2013	ND	2.00	99.9	2.00	4.14		
Toluene*	<0.050	0.050	08/29/2013	ND	1.96	98.2	2.00	6.66		
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	1.96	98.0	2.00	11.6		
Total Xylenes*	<0.150	0.150	08/29/2013	ND	5.84	97.3	6.00	10.2		
Total BTEX	<0.300	0.300	08/29/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	08/30/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: AR/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/30/2013	ND	209	105	200	2.74		
DRO >C10-C28	23.7	10.0	08/30/2013	ND	209	104	200	4.45		

Surrogate: 1-Chlorooctane 100 % 63.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

**Sample ID: SP 4 @ 2' (H302041-16)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	08/30/2013	ND	416	104	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:	08/23/2013	Sampling Date:	08/22/2013
Reported:	09/03/2013	Sampling Type:	Soil
Project Name:	BENSON SHUGART WFU #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 4 @ 3' (H302041-17)**

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	08/30/2013	ND	416	104	400	0.00	

**Sample ID: SP 4 @ 4' (H302041-18)**

BTEX 8021B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/29/2013	ND	2.00	99.9	2.00	4.14		
Toluene*	<0.050	0.050	08/29/2013	ND	1.96	98.2	2.00	6.66		
Ethylbenzene*	<0.050	0.050	08/29/2013	ND	1.96	98.0	2.00	11.6		
Total Xylenes*	<0.150	0.150	08/29/2013	ND	5.84	97.3	6.00	10.2		
Total BTEX	<0.300	0.300	08/29/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/30/2013	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AR/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/30/2013	ND	209	105	200	2.74	
DRO >C10-C28	<10.0	10.0	08/30/2013	ND	209	104	200	4.45	

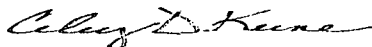
Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 114 % 63.6-154

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\*=Accredited Analyte

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**Notes and Definitions**

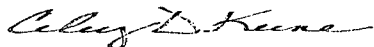
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

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Celey D. Keene, Lab Director/Quality Manager



# **CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

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

1 of 2

Page 12 of 13

Company Name: BBC International, Inc.				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Project Manager: Cliff Brunson				P.O. #:															
Address: P.O. Box 805				Company:															
City: Hobbs		State: NM		Zip: 88241		Attn:													
Phone #: 575-397-6388		Fax #: 575-397-0397		Address: <i>Same</i>		City:													
Project #:		Project Owner: <i>Chloride</i>		State:		Zip:													
Project Name: <i>Benson Shugart WFA # 2</i>				Phone #:															
Project Location: <i>Loco Hills</i>				Fax #:															
Sampler Name: <i>Roy H</i>																			

FOR LAB USE ONLY		Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.			SAMPLING		DATE	TIME	CHLORIDE	TPH	BTEX
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER						
1		H3D2041	SP1 @ Surface	1										8-22-13	945				
2			@ 1'	1										8-22-13	958				
3			@ 2'	1										8-22-13	1010				
4			@ 3'	1										8-22-13	1024				
5			@ 4'	1										8-22-13	1038				
6			SP2 @ Surface	1										8-22-13	1048				
7			@ 1'	1										8-22-13	1057				
8			@ 2'	1										8-22-13	1109				
9			@ 3'	1										8-22-13	1115				
10			SP3 @ Surface	1										8-22-13	1130				

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Relinquished By: <i>Roy H</i>		Date: <i>8-23-13</i>	Received By: <i>Sy - RAB</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
		Time: <i>4:12</i>			Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <i>Sy - RAB</i>		Date: <i>8-23-13</i>	Received By: <i>Jodi Benson</i>		REMARKS:	
		Time: <i>4:20</i>				
Delivered By: (Circle One)			Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:			Cool / Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	(Initials) <i>JA</i>		

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

#54



2 of

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Relinquished By: <i>Roger Hernandez</i> Date: <i>8-22-13</i> Time: <i>4:12</i>		Received By: <i>S-J-Rob</i> Date: <i>8-23-13</i> Time: <i>4:20</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ Add'l Fax #: _____ REMARKS:	
Relinquished By: <i>S-J-Rob</i> Date: <i>8-23-13</i> Time: <i>4:20</i>		Received By: <i>Jodi Benson</i> Date: <i>8-23-13</i> Time: <i>4:20</i>		CHECKED BY: <i>[Signature]</i> (Initials)	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool / Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <i>5.7°C</i>			

† 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  
1301 W. Grand Avenue, 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 October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

### Release Notification and Corrective Action

#### OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Chevron Delaware Basin	Contact	Bradley Blevins
Address	PO Box 190, Hobbs, NM 88241	Telephone No.	(575) 391-1462
Facility Name	Benson Shugart WFU #2 CTB	Facility Type	Battery
Surface Owner	BLM	Mineral Owner	API #

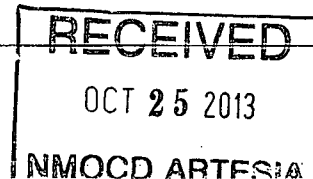
#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	26	18S	30E	2310	South	330	East	Eddy County, NM

Latitude N 32.71738° Longitude W 103.93519°

#### NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	59 bbls	Volume Recovered	51 bbls
Source of Release	Tank overflow	Date and Hour of Occurrence	07/29/2013 @ 10:00 am	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- NMOCD; James Amos- BLM		
By Whom?	Bradley Blevins	Date and Hour	07/29/2013 @ 3:22 pm		
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.\*  
Failure to get a load from the tank caused an overflow and 59 bbls of produced water leaked onto the ground. 51 bbls of produced water were recovered via vacuum truck.

Describe Area Affected and Cleanup Action Taken.\*  
Failure to get a load from the tank caused an overflow and 59 bbls of produced water leaked onto the ground. 51 bbls of produced water were recovered via vacuum truck. Further remediation will be performed in accordance with a NMOCD and BLM approved remediation plan.

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: <i>Bradley Blevins</i>	OIL CONSERVATION DIVISION		
Printed Name: Bradley Blevins	Approved by District Supervisor:		
Title: HE Specialist	Approval Date:	Expiration Date:	
E-mail Address: Bradley.blevins@chk.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 8/1/13	Phone: (575) 391-1462		

\* Attach Additional Sheets If Necessary