Closure Report

RECEIVED

OCT 2 1 2013

	Site Description	NMOCD ARTESIA
Site Name:	Benson Shugart WFU #11	2RP-1646
Company:	Chevron Delaware Basin	
Legal Description:	U/L I, Section 26, T18S, R30E	
County:	Eddy County, NM	
GPS Coordinates:	N 32.71690° W 103.93508°	

	Release Data
Date of Release:	05/01/2013
Type of Release:	Produced Water
Source of Release:	Injection line leak
Volume of Release:	133 bbls
Volume Recovered:	90 bbls

	Remediation Specifications
Remediation Parameters:	Excavate the entire leak area to a depth of 4 feet. Place an impermeable line in the bottom of the excavation area. Backfill the site with clean soil.
Remediation Activities:	09/13/2013 to 10/15/2013

Plan Sent to OCD:	08/12/2013	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	08/13/2013	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	08/14/2013	Email from Cliff Brunson to Mike Burton
BLM Approval of Plan:	08/22/2013	Email from Mike Burton to Bradley Blevins

	Supporting Documentation
Initial C-141	Signed 05/05/2013
Final C-141	Signed 10/17/2013
Site Diagram	May 2013
Groundwater Plot	175'-200'
TOPO Maps	May 2013
Lab Summary	05/28/2013-05/31/2013, 06/27/2013, and 08/22/2013
Lab Analysis	05/28/2013-05/31/2013, 06/27/2013, and 08/22/2013
Correspondence	Request and approval of remediation plan via email

Request for Closure

Site early 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.

10/18/2013

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

						OPERATOR Initial Report Fin					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 #11 Well and Battery						Facility Type WFU						
Surface Ow	ner BLM			Mineral C	wner			API # 3	30-015-205	28		
				LOCA	TIO	N OF REI	LEASE.					
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/West Line	County			
I	26	18S	30E	2310		South	330	East	Eddy Cour	ntv NN	Л	
L	Latitude N 32.716						de W 103.93508		Eddy Cour	10,, 111		
	NATURE OF RELEASE											
Type of Relea	ase Produ	iced Water		INAI	UKL	Volume of		le Volume I	Recovered	00 hhl		
Source of Re		ction line leak					lour of Occurrence	1	Hour of Disc		·	
Boarde of Re	icase inje	citon tine teak					3 @ 1:00 am	Date and	tiour of Dis	.0 vc1 y		
Was Immedia	ate Notice C					If YES, To	Whom?					
		\boxtimes	Yes	No 🔲 Not Re	quired	Mike Brato	her- NMOCD; Jai	mes Amos- BLM				
By Whom?	Bradley Bla	evine .				Date and H	Tour 05/01/2013	@ 4:25 pm				
Was a Watero						If YES, Vo	hume Impacting th	ne Watercourse.				
			Yes 🏻	No		,	Γ		EIVE	D	7	
If a Watercou	rse was Im	pacted, Descri	be Fully.*					Ì			!	
								000	2 1 201	3	}	
												ļ
								IMMOC	D ARTE			
Describe Cau												
An injection repaired.	line leak ca	used 133 bbls	of produc	ed water to leak o	into the	ground. 90 b	bls of fluid were r	ecovered via vacu	um truck and	d the li	ne was	
ropanea.												
Describe Area	Affected a	and Cleanup A	ction Tak	en.*	-	,						
The area affec	eted us appr	oximately 100	o' x 250'	An injection line	leak car	used 133 bbls	of produced wate	r to leak onto the	ground. 90 b	obls of	fluid we	ere
recovered via remediation p		ick and the lin	e was repa	ured. Further rem	ediation	will be perto	ormed in accordan	ce with a NMOCE	and BLM a	pprove	ed	İ
remediation p	iaii,											
								derstand that purs				
regulations all	loperators	are required to	report an	d/or file certain re	lease no	otifications an	id perform correct	ive actions for rele	eases which	nay en	danger	
								port" does not reli at to ground water				
or the environ	ment. In a	ddition, NMO	CD accept	ance of a C-141 r	eport de	es not relieve	e the operator of re	esponsibility for co	, surface war ompliance w	ith anv	other	.1111
federal, state,	or local law	vs and/or regul	lations.									
٠,	7	-	,				OIL CONS	ERVATION	DIVISIO	N		
Signature: 🗸	لمدر ک	D. 16	0									
Signature: Classing Llevia						hamarad by	District Supervisor		÷			ļ
Printed Name	: Bradley	Blevins					District Supervisor	ı.				
Title: HE S	pecialist					Approval Date	e:	Expiration 1	Date:			
E-mail Addres	ss: Bradle	ey.blevins@cl	ık.com			Conditions of	Approval:			_		
	·								Attached	Ш		
Date: 05/06/		4. ICXI		none: (575) 391-1	462							

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

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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

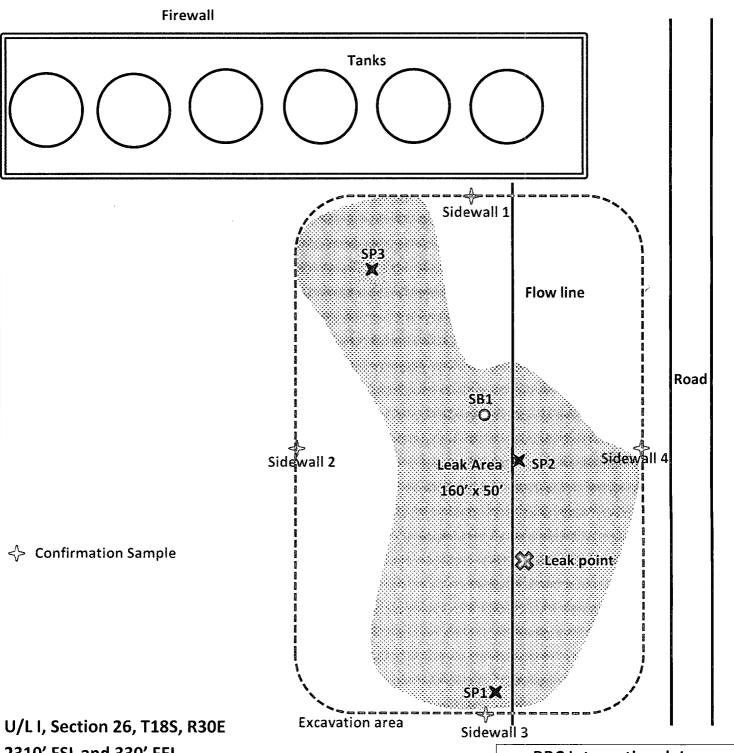
Release Notification and Corrective Action **ADED ATAD** [Fin] Turkin 1 D

	UPLKA			al Report Final Report				
Name of Company Chevron Delaware Basin		Bradley Blevins	···					
Address PO Box 190, Hobbs, NM 88241		Telephone No. (575) 391-1462						
Facility Name Benson Shugart #11 Well and Battery	Facility T	pe WFU	·					
Surface Owner BLM Mineral O	wner		API # 3	30-015-20528				
LOCA	TION OF RE	LEASE						
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 32.7	1690° Longit	ude W 103.9350	8°					
NAT	URE OF REI	EASE						
Type of Release Produced Water		of Release 133 bb	ls Volume I	Recovered 90 bbls				
Source of Release Injection line leak		Hour of Occurrence 13 @ 1:00 am	e Date and	Hour of Discovery				
Was Immediate Notice Given?		o Whom?						
☐ Yes ☐ No ☐ Not Red		tcher- NMOCD; Ja	mes Amos- BLM					
By Whom? Bradley Blevins	Date and	Hour 05/01/2013	@ 4:25 pm					
Was a Watercourse Reached?		olume Impacting t						
☐ Yes ☒ No								
If a Watercourse was Impacted, Describe Fully.*								
	.*							
Describe Cause of Problem and Remedial Action Taken.*								
An injection line leak caused 133 bbls of produced water to leak or repaired.	nto the ground. 90	bbls of fluid were	recovered via vacu	ium truck and the line was				
Describe Area Affected and Cleanup Action Taken.*								
The area affected us approximately 100' x 250'. An injection line	leak caused 133 bb	ls of produced water	er to leak onto the	ground. 90 bbls of fluid were				
recovered via vacuum truck and the line was repaired. Remediation	n was completed in	accordance with th	e remediation plan	approved by Mike Bratcher of				
NMOCD via email on 08/13/2013 and approved by Mike Burton or	f the BLM via ema	il on 08/22/2013.						
I hereby certify that the information given above is true and comple	ete to the best of m	y knowledge and u	nderstand that purs	suant to NMOCD rules and				
regulations all operators are required to report and/or file certain rel	lease notifications	and perform correct	tive actions for rele	eases which may endanger				
public health or the environment. The acceptance of a C-141 report								
should their operations have failed to adequately investigate and remore the environment. In addition, NMOCD acceptance of a C-141 re	mediate contamina eport does not relie	non that pose a thre	eat to ground water responsibility for c	ompliance with any other				
federal, state, or local laws and/or regulations.								
		OIL CONS	SERVATION	DIVISION				
Signature: rollen land								
73	Approved b	District Supervice	or.					
Printed Name: Bradley Blevins Approved by District Supervisor:								
Title: HE Specialist	Approval Da	ıte:	Expiration	Date:				
E-mail Address: Bradley.blevins@chk.com	Conditions of	of Approval:		Attached				
Date: 10/17/2013 Phone: (575) 391-14	462			Audonou [
Attach Additional Sheets If Necessary								

N 1

Chevron

Benson Shugart WFU #11



2310' FSL and 330' FEL Eddy County, NM N 32.71690° W 103.93508° API# 30-015-20528

BBC International, Inc.						
Chevron						
Benson Shu	ıgart WFU #11					
Date: 05/07/2013	DRWG by: K. Purvis					
NOT TO SCALE	File: Chevron 2013					



Groundwater Plot

Chevron Benson Shugart WFU #11

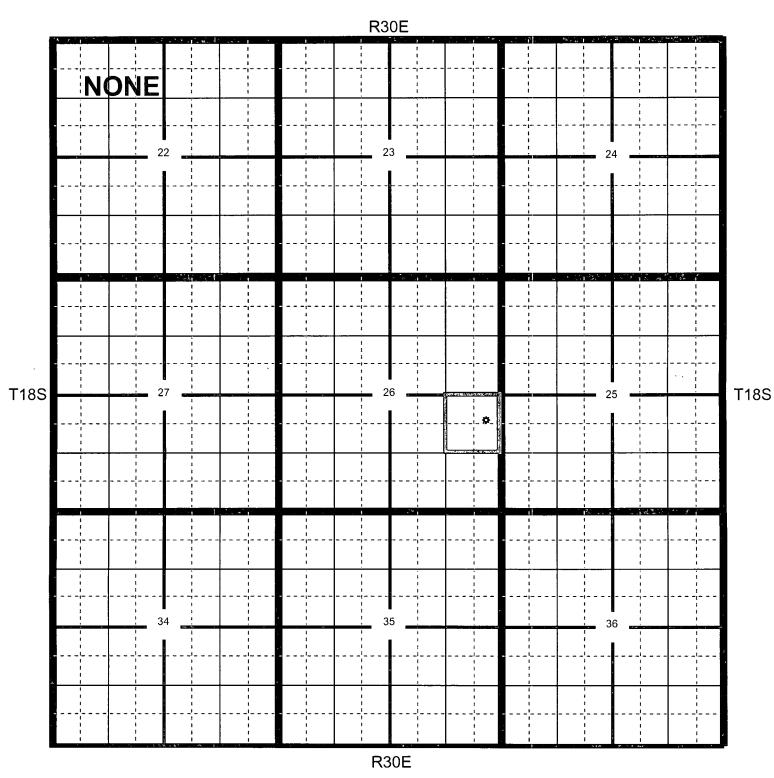
County Eddy Unit Letter

Section 26

Township 18S Range 30E

Trend Map

175'-200'



♣ Location

OCD

OUSGS

OSEO

All Databases



Section Quarters

Chevron Benson Shugart WFU #11

CountyUnit LetterSectionTownshipRangeEddy12618S30E

Trend Map 175'-200'

1 2

NW/NW	NE/NW	NW/NE	NE/NE
NONE			
Unit Letter D SW/NW	Unit Letter C SE/NW	Unit Letter B SW/NE	Unit Letter A SE/NE
 	, , , , ,		1 1 1 1 1
Unit Letter E	Unit Letter F	Unit Letter G	Unit Letter H NE/SE
NWYSW	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 L'etter M	Unit Letter N	Unit Letter O	Unit Letter P

3

4

♣ Location

o OCD

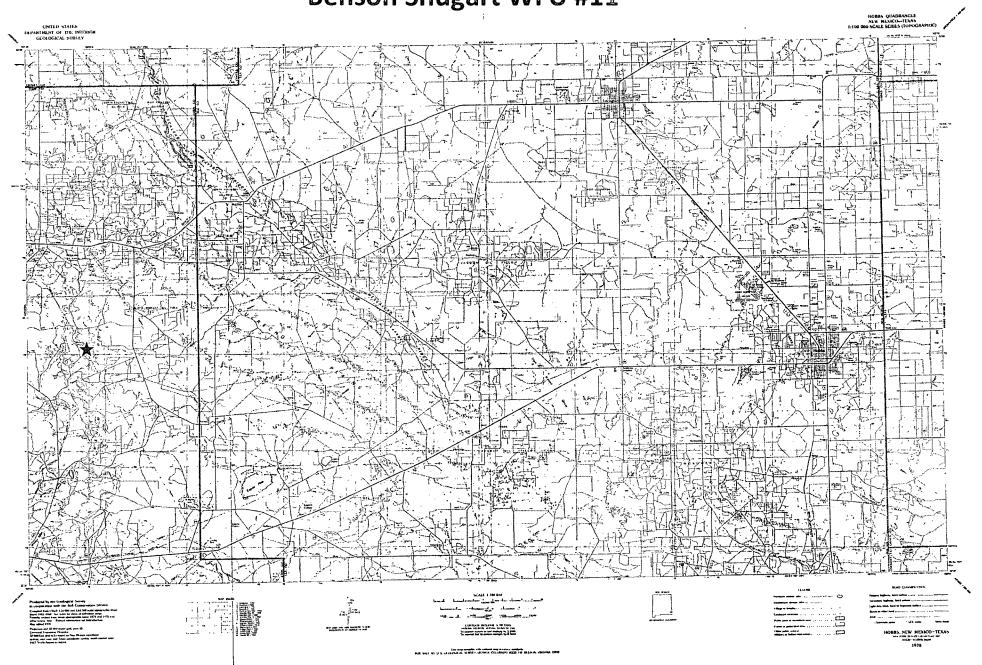
OUSGS

o SEO

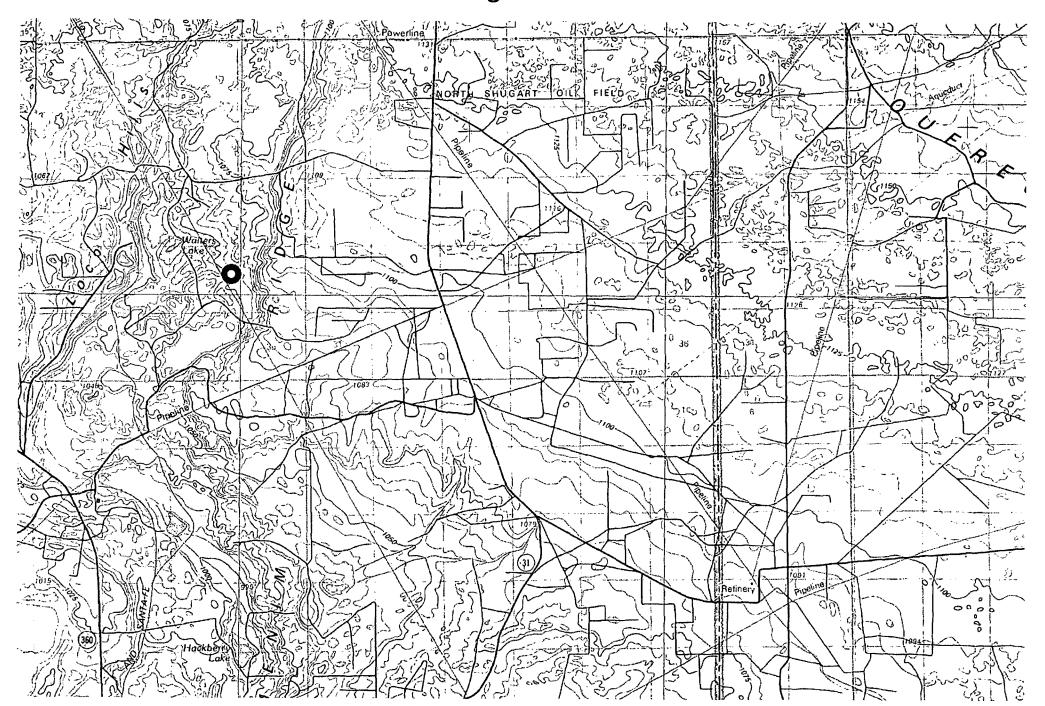
All Databases

Chevron

Benson Shugart WFU #11



Oxy
Benson Shugart WFU #11



Laboratory Analytical Results Summary Benson Shugart WFU #11

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 6'	SP1 @ 9'	SP1 @ 12'	SP1 @ 15'	SP1 @ 18'
Analyte	Method	Date	5/28/13	5/28/13	5/28/13	5/28/13	5/28/13	5/28/13	5/28/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		< 0.300	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		7920	4240	2720	3400	4680	5680	12800
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 6'	SP2 @ 9'	SP2 @ 12'	SP2 @ 15'	SP2 @ 18'
Analyte	Method	Date	5/28/13	5/28/13	5/28/13	5/31/13	5/31/13	5/31/13	5/31/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	ń/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		9800	5120	2560	8000	4080	5920	4560
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a

		Sample	SP3 @ 1'	SP3 @ 3'	SP3 @ 6'	SP3 @ 9'	SP3 @ 12'	SP3 @ 15'	SP3 @ 18'
Analyte	Method	Date	5/31/13	5/31/13	5/31/13	5/31/13	5/31/13	5/31/13	5/31/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		3920	5920	4560	5120	6400	4560	5440
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a

Laboratory Analytical Results Summary BS WFU #11

		Sample	SB1 @ 20'	SB1 @ 30'	SB1 @ 40'	SB1 @ 50'	SB1 @ 60'	SB1 @ 70'	SB1 @ 80'	SB1 @ 85'
Analyte	Method	Date	6/27/13	6/27/13	6/27/13	6/27/13	6/27/13	6/27/13	6/27/13	6/27/13
			mg/Kg							
Chloride	SM4500CI-B		2160	2320	2400	2600	2000	1560	208	144

Laboratory Analytical Results Summary Benson Shugart WFU #11

Confirmation		Sample	Sidewall 1
Analyte	Method	Date	8/22/13
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500CI-B		<16.0
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	Sidewall 2
Analyte	Method	Date	8/22/13
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500CI-B		<16.0
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	Sidewall 3
Analyte	Method	Date	8/22/13
			mg/Kg
Benzene	BTEX 8021B		<0.050_
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500CI-B		<16.0
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	Sidewall 4
Analyte	Method	Date	8/22/13
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500CI-B		<16.0
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0



June 06, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: BS WFU #11

Enclosed are the results of analyses for samples received by the laboratory on 06/03/13 10:55.

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 accredited certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey & Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To:

(575) 397-0397

Received: Reported: 06/03/2013

06/06/2013

BS WFU #11

Project Name: Project Number:

NONE GIVEN

Project Location:

LOCO HILLS, NM

Sampling Date:

05/28/2013

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Troject Eocadon:

Sample ID: SP 1 @ 1 FT (H301290-01)

8TEX 8021B	mg/kg		Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2013	ND	2.24	112	2.00	6.40	
Toluene*	< 0.050	0.050	06/05/2013	ND	2.02	101	2.00	9.20	
Ethylbenzene*	< 0.050	0.050	06/05/2013	ND	2.19	109	2.00	10.4	
Total Xylenes*	<0.150	0.150	06/05/2013	ND	6.37	106	6.00	8.90	
Total BTEX	<0.300	0.300	06/05/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	122 %	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7920	16.0	06/06/2013	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS		,			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/05/2013	ND	195	97.6	200	1.42	
DRO >C10-C28	<10.0	10.0	06/05/2013	ND	197	98.7	200	2.74	
Surrogate: 1-Chlorooctane	103 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	110 %	63.6-15	4						

Sample ID: SP 1 @ 3 FT (H301290-02)

Chloride, SM4500CI-B	00CI-B mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	06/06/2013	ND	432	108	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim ansing, 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 subclaines, 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 Laboratomes.

Celey D. Keine



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

Hobbs NM, 88241

Fax To:

(575) 397-0397

Received: Reported: 06/03/2013

06/06/2013

Project Name: Project Number: BS WFU #11 NONE GIVEN

Project Location:

LOCO HILLS, NM

Sampling Date:

05/28/2013

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Sample ID: SP 1 @ 6 FT (H301290-03)

Chloride,	SM4500CI-B
-----------	------------

Chloride

Chloride

Chloride

Chloride

Chloride

Analyzed By: DW

Analyte

Result 2720

Reporting Limit 16.0

Analyzed 06/06/2013

Analyzed

06/06/2013

Method Blank ND

BS 432 % Recovery

108

True Value QC

Oualifier

Sample ID: SP 1 @ 9 FT (H301290-04)

Chloride, SM4500Cl-B

Analyte

Analyte

Result

3400

Result

4680

Analyzed By: DW

Reporting Limit

Method Blank

BS

432

% Recovery

108

True Value QC

400

400

RPD

3.77

RPD

3.77

Qualifier

Sample ID: SP 1 @ 12 FT (H301290-05)

Chloride, SM4500Cl-B

Analyzed By: DW

Reporting Limit 16.0

16.0

Analyzed 06/06/2013 Method Blank ND

ND

BS 432 % Recovery

True Value QC

RPD

Qualifier

Sample ID: SP 1 @ 15 FT (H301290-06)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: DW

108

400

3.77

Analyte

Result

5680

Result

12800

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed 06/06/2013 Method Blank

ND

ND

ВS 432

BS

% Recovery

108

True Value QC

400

RPD

Qualifier 3.77

Sample ID: SP 1 @ 18 FT (H301290-07)

Chloride, SM4500Cl-B

Analyzed By: DW

Analyzed

06/06/2013

Method Blank

% Recovery 416 104

True Value QC 400

RPD 3.77 Qualifier

Cardinal Laboratories

Analyte

*=Accredited Analyte

All claims, including those for negligence and based in contract or tort, shall be limited to the amount paid by client for analyses. 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

Celey & Kune



BBC International, Inc.

Cliff Brunson P.O. Box 805

Hobbs NM, 88241

Fax To: (575) 397-0397

Received:

06/03/2013

Reported: Project Name: 06/06/2013 BS WFU #11 NONE GIVEN

Project Number: Project Location:

LOCO HILLS, NM

Sampling Date:

05/28/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 2 @ 1 FT (H301290-08)

В	T	E	X	8	0	2	1	В	

ma	/₩	'n

Analyzed By: AP

			<u> </u>						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2013	ND	2.24	112	2.00	6.40	
Toluene*	<0.050	0.050	06/05/2013	ND	2.02	101	2.00	9.20	
Ethylbenzene*	<0.050	0.050	06/05/2013	ND	2.19	109	2.00	10.4	
Total Xylenes*	<0.150	0.150	06/05/2013	ND	6.37	106	6.00	8.90	
Total BTEX	<0.300	0.300	06/05/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	122 %	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9800	16.0	06/06/2013	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/05/2013	ND	195	97.6	200	1.42	
DRO >C10-C28	<10.0	10.0	06/05/2013	ND	197	98.7	200	2.74	
Surrogate: 1-Chlorooctane	101 9	65.2-14	0			·			

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

Sample ID: SP 2 @ 3 FT (H301290-09)

Chloride, SM4500Cl-B mg/kg		Analyzed By: DW							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	06/06/2013	ND	416	104	400	3.77	

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



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

Fax To: (575) 397-0397

Received:

06/03/2013

Sampling Date:

05/28/2013

Reported:

06/06/2013

Sampling Type:

Soil

Project Name: Project Number: BS WFU #11 NONE GIVEN Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Location:

LOCO HILLS, NM

Sample ID: SP 2 @ 6 FT (H301290-10)

Chloride, SM4500CI-B	mg,	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	06/06/2013	ND	416	104	400	3.77	
Sample ID: SP 2 @ 9 FT (I	H301290-11)								
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: DW		,			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	06/06/2013	ND	416	104	400	3.77	
Sample ID: SP 2 @ 12 FT	(H301290-12)	ı							
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4080	16.0	06/06/2013	ND	416	104	400	3.77	
Sample ID: SP 2 @ 15 FT	(H301290-13)	•							
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5920	16.0	06/06/2013	ND	416	104	400	3.77	
Sample ID: SP 2 @ 18 FT	(H301290-14)	1							
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	06/06/2013	ND	416	104	400	3.77	

Cardinal Laboratories *=Accredited Analyte

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Celey & Keene



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

Fax To:

(575) 397-0397

Received:

06/03/2013

Sampling Date:

05/31/2013

Reported:

06/06/2013

Sampling Type:

Soil

Project Name:

Sampling Condition:

Cool & Intact

Project Number:

BS WFU #11 NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

LOCO HILLS, NM

Sample ID: SP 3 @ 1 FT (H301290-15)

BTEX 8021B	mg/	kg	Analyze	d By: AP			<u>.</u> .		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2013	ND	2.24	112	2.00	6.40	
Toluene*	<0.050	0.050	06/05/2013	ND	2.02	101	2.00	9.20	
Ethylbenzene*	<0.050	0.050	06/05/2013	ND	2.19	109	2.00	10.4	
Total Xylenes*	<0.150	0.150	06/05/2013	ND	6.37	106	6.00	8.90	
Total BTEX	<0.300	0.300	06/05/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	122 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW					
Analyte .	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	16.0	06/06/2013	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/05/2013	ND	195	97.6	200	1.42	
DRO >C10-C28	<10.0	10.0	06/05/2013	ND	197	98.7	200	2.74	
Surrogate: 1-Chlorooctane	93.3	% 65.2-14	0			,			
Surrogate: 1-Chlorooctadecane	102 9	63.6-15	4						

Sample ID: SP 3 @ 3 FT (H301290-16)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5920	16.0	06/06/2013	ND	416	104	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keens



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

Fax To: (575) 397-0397

Received: Reported:

06/03/2013 06/06/2013

Project Name: Project Number: Project Location: BS WFU #11 NONE GIVEN LOCO HILLS, NM Sampling Date:

05/31/2013 Sampling Type: Soil

Sampling Condition: Sample Received By: Cool & Intact

RPD

3.77

Qualifier

Jodi Henson

Sample ID: SP 3 @ 6 FT (H301290-17)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC
Chloride	4560	16.0	06/06/2013	ND	416	104	400

Sample ID: SP 3 @ 9 FT (H301290-18)

Chloride, SM4500CI-B	mg	/kg	Analyze	a By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	06/06/2013	ND	416	104	400	3.77	

Sample ID: SP 3 @ 12 FT (H301290-19)

Chile the CMAFOOCI D

Chloride, SM4500CI-B	mg	/ kg	Anaiyze	а ву: и w					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	06/06/2013	ND	416	104	400	3.77	

Ameliand But DM

Sample ID: SP 3 @ 15 FT (H301290-20)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	06/06/2013	ND	416	104	400	3.77	

Sample ID: SP 3 @ 18 FT (H301290-21)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	06/06/2013	ND	416	104	400	3.77	

*=Accredited Analyte Cardinal Laboratories

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Celeg & Keine



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 SM4500CI-B does not require samples be received at or below 6°C

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

Cardinal Laboratories *=Accredited Analyte

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Celeg & Keine

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Je 9 of 11

(505) 393-2326 FAX (505) 393-2476 Company Name: BBC International, Inc. **ANALYSIS REQUEST** 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 Project Owner Cherron City: Project #: Project Name: RS State: Project Location: (Phone # Sampler Name: Fax #: MATRIX PRESERV. SAMPLING FOR LAB USE ONLY Sample I.D. Lab I.D. H301290 TIME DATE 9:05 9:48 10:38 11:20 12:00

PLEASE NDTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any delim string whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those bor negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion for the applicable service. In one event shall Cardinal be finite for incidental or consequential damages, including without limitation, business interruptions, toss of use, or loss of prafts incurred by client, its subsidiaries,

- 12	Relinquished.By:	Dates Received By:	Phone		☐ Yes	□ No	Add'l Phone #:		
ľ	temiquished by.	G/3/13 1 1 1	Fax Res		☐ Yes	□ No	Add'l Fax #:		
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Ī	Relinquished By:	Date 21.2 Regeived By:	_ ['						•
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_									

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

#54

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Joy 10 of 11

(505) 393-2326 FAX (505) 393-2476		
Company Name: BBC International, Inc.		ANALYSIS REQUEST
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:	
Project #: Project Owner: Chevion	City:	
Project Name: BS WFU#!	State: Zip.	
Project Location: 100 Hills	Phone #:	
Sampler Name: Garu RAY	Fax #:	
FOR LAB USE ONLY MATRIX	PRESERV. SAMPLING	
# CONTAINERS GROUNDWATER WASTEWATER WASTEWATER OIL	OTHER: OTHER: OTHER: DATE: OTHER: ACIDIGE OTHER:	
115726984 16121	S-3() 9:30	
12 SP 20 12F4 62 X	X 5.31 (0:1	15 X
13592C 15F+ 62 X	5-31 11:0	
145P2@18FT 61 X	X 571 11 45	
15673@ 18+ 62 X	X 1:00 2:00	
16583@ 3F+ 62 X	X 5-31 1:30	
MSP7E 6FT GZ X	K 5-31 1:5	
18 P3@ 9F+ 62 X	λ 5-31 2:30	70 X
1959 12F+ 67 X	5-31 3:1	
100030 KFH V.1 X	V = 31 313	KE V

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Relinquished By: Date: 1- /-	Received By: /	Phone Result:	Yes □ No	Add'l Phone #:	
6/3/13		Fax Result: □	Yes 🗆 No	Add'l Fax #:	
Time:	\mathcal{M}^{2}	REMARKS:			2
		_ .			
Relinquished By. Dater	Received By:		9		
	Mou Don				
10/35	Will Sterior	_1			
Delivered By: (Circle One)	Sample Condition CHECKED BY:				
,	Cool intact (lightels)				
Sampler - UPS - Bus - Other:	C Ves Yes / /	1			
	1 U No No AV			•	

[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-3932476

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

30e 11 of 11

Company Name: BBC International, Inc.		ELLETO		ANALYSIS REC	QUEST
Project Manager: Cliff Brunson		P.O. #:			
Address: P.O. Box 805		Company:	1		
city: Hobbs State: NM zi	ip: 88241	Attn:	1		
Phone #: 575-397-6388 Fax #: 575-39	97-0397	Address:		1. •	
Project #: Project Owner: (Chevron	City: / / / '		1	
Project Name: 85 WFD #11		State: Zin:			
Project Location: Loco Hills		Phone #.			
Sampler Name: Gary RA-U		Fax #:		"	
FOR LAB USE ONLY	. MATRIX	PRESERV. SAMPLING	4 4		
	S S S S				
Lab I.D. Sample I.D.	## CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	ا ا ا			
l	TEW GE	R 888	17	· ·	
H301290 21 SP3@ BF+ G	# CON GROU WAST SOIL OIL	ACID/BASE: CE / COOL OTHER: AMIT STAN	19		
21 SP3@ BF+ 6		X 5-31 9:15			
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PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any client's					
analyses. All claims including those for negligence and any other cause whatsoever shall be deem service. In no event shall Cardinal be liable for incidental or consequental damages, including with	out limitation, business interruptions, I	loss of use, or loss of profits incurred by client, its subsid	artes,	,	.*
affiliates or successors arising out of or related to the performance of services hereunder by Cardin Relinquished By: Date: 12 (12 R	nal, regardless of whether eych daim is Received By:	Phone R	esult: 🗆 Yes 🗆 No	Add'l Phone #:	
6/3//3		Fax Resu		Add'l Fax #;	
Relinguished Bu Date: R	Received By:	Name of the second	· ··· ·······		
Remitueismen De vate. R	reopireu by.				

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

Time:

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

#54

Sample Condition
Cool Intact
Ves Yes
No No



July 09, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: BS WF #11

Enclosed are the results of analyses for samples received by the laboratory on 07/01/13 16:35.

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.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Hobbs NM, 88241

Fax To: (575) 397-0397

Received:

07/01/2013

Sampling Date:

06/27/2013

Reported:

07/09/2013

Sampling Type:

BŞ

432

BS

Soil

Project Name:

BS WF #11 NONE GIVEN

Sampling Condition: Sample Received By:

** (See Notes) Jodi Henson

Project Number: Project Location:

LOCO HILLS, NM

Sample ID: SB 1 @ 20' (H301552-01)

Chloride, SM4500CI-B

mg/kg Analyzed By: AP

Analyte

Reporting Limit Result

Analyzed Method Blank % Recovery True Value QC RPD

Chloride

Chloride

2160

16.0 07/09/2013 ND

432 108

Qualifier

Sample ID: SB 1 @ 30' (H301552-02)

Chloride, SM4500Cl-B

Analyte

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed By: AP

400

0.00

Result

2320

Analyzed

07/09/2013

Analyzed

Method Blank

ND

Method Blank

ND

BS % Recovery True Value QC

400

RPD

Qualifier

Sample ID: SB 1 @ 40' (H301552-03)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

% Recovery

108

108

Chloride

Result 2400

16.0 07/09/2013

432

True Value QC 400

RPD 0.00

0.00

Qualifier

Sample ID: SB 1 @ 50' (H301552-04)

Chloride, SM4500CI-B

Analyte

mg/kg

Analyzed By: AP

Analyte Result Reporting Limit Chloride 2600

Analyzed

07/09/2013

Method Blank ND

BS 432 % Recovery 108

True Value QC 400

RPD 0.00 Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Celey & Keene

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 5



BBC International, Inc. Cliff Brunson

P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received:

07/01/2013

Sampling Date:

06/27/2013

Reported:

Chloride, SM4500Cl-B

07/09/2013

Soil

Project Name:

BS WF #11

Sampling Type: Sampling Condition:

** (See Notes)

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

LOCO HILLS, NM

mg/kg

Sample ID: SB 1 @ 60' (H301552-05)

	9	, ·-g	,						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	07/09/2013	ND	432	108	400	0.00	
Sample ID: SB 1 @ 70' (F	1301552-06)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1560	16.0	07/09/2013	ND	432	108	400	0.00	
Sample ID: SB 1 @ 80' (F	1301552-07)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/09/2013	ND	432	108	400	0.00	
Sample ID: SB 1 @ 85' (H	l301552-08)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/09/2013	ND	416	104	400	0.00	

Analyzed By: AP

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine



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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name	: BBC International, Inc.						u ke						ANA	LYSI	S RE	QUE	ST			
Project Manage	: Cliff Brunson			P.C). #:	,									T				•	
Address: P.O.	Box 805			Co	mpan	y:		7				l .	·		- '	ļ.				
city: Hobbs	State: NM	Zip: 8	88241	Att	n:			/								ŀ		i		
Phone #: 575-	397-6388 Fax #: 575	397-0	397	Ad	dress		-0	/							·					
Project #:	Project Owne	: Ch	euron	Cit	y:		12/2		٠.										·	
Project Name:	RS WF #11			Sta	ite: U		⊋ ip:				ļ	ļ		ļ	ļ	ļ				
Project Location	11 Coco Hills			Ph	one#	<u>را.</u>	· ·					Į	Į	Į	ļ					
Sampler Name:	Gary RAy			Fa									٠.							
FOR LAB USE ONLY			MATRIX	_	PRES	ERV.	SAMPL	NG							1					
		(C)OMP ERS	ATER						. 1			<u> </u>						i		
Lab I.D.	Sample I.D.	(G)RAB OR (C)(# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL	OTHER:	ACID/BASE	OTHER:			C1											
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	d Damages. Cardinal's liability and client's exclusive remedy for a ng those for negligence and any other cause whatsoever shall be									ble										
service. In no event shall C	ardinal be liable for incidental or consequental damages, including ng out of or related to the performance of services hereunder by C	without limit	ation, business interruptions.	, loss of	use, or lo	ss of pr	ofils incurred by	client, its subsidi:	aries,	•										

Billiates of Successors arising our or or related to the performance of			s based apon any or the above staled it					
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476





September 03, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: BENSON SHUGART WFU #11

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/qa/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keens

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To:

(575) 397-0397

Received:

08/23/2013

Sampling Date:

08/22/2013

Reported:

09/03/2013

Sampling Type:

Soil

Project Name:

BENSON SHUGART WFU #11

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

LOCO HILLS, NM

Sample ID: SIDE WALL #1 (H302042-01)

BTEX 8021B	mg/	kg	Analyze	d 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	109 9	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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	99.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	107 9	63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Keens



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 #11

Sampling Condition:

Cool & Intact

Project Number: Project Location: NONE GIVEN LOCO HILLS, NM Sample Received By:

Jodi Henson

Sample ID: SIDE WALL #2 (H302042-02)

BTEX 8021B	mg/	kg	Analyze	d 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	106 %	6 89.4-12	6						
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	Analyze	d 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	106 %	6 65.2-14	0						
Surrogate: 1-Chlorooctadecane	115 %	63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Keine



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 #11

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

LOCO HILLS, NM

Sample ID: SIDE WALL #3 (H302042-03)

BTEX 8021B	mg/	kg	Analyze	d 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	107 %	6 89.4-12	6						
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	Analyze	d 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	113 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	118 %	63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Kuna



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 #11

Sampling Condition: Sample Received By:

Cool & Intact Jodi Henson

Project Number: Project Location: NONE GIVEN

LOCO HILLS, NM

Sample ID: SIDE WALL #4 (H302042-04)

BTEX 8021B	mg/	/kg	Analyze	d 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	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/30/2013	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d 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	108 9	% 65.2-14	0		- "				
Surrogate: 1-Chlorooctadecane	115 9	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celey & Kune



ND

Notes and Definitions

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

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories

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Celey & Kune

RDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(505) 393-2326 FAX (505) 393-2476		<u> </u>	12
Company Name: BBC International, Inc.		ANALYSIS REQUEST	,
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: Address:		
Project #: Project Owner:	City:		
Project Name: BENSON Shugary WDJ # 11	State: Zip:		
Project Location: LOCO Hells NM	Phone #:	3	
Sampler Name: POER HERNANCE	Fax #:		
Lab I.D. Sample I.D. H30204 Side half # 1 (2) WASTEWATER WASTEWATER H 2 (1) WASTEWATER H 3 (1) WASTEWATER H 3 (1) WASTEWATER H 3 (1) WASTEWATER H 3 (1) WASTEWATER H 3 (1) WASTEWATER H 3 (1) WASTEWATER H 3 (1) WASTEWATER H 3 (1) WASTEWATER H 3 (1) WASTEWATER H 3 (1) WASTEWATER H 3 (1) WASTEWATER H 3 (1) WASTEWATER H 3 (1) WASTEWATER WASTEWATER H 3 (1) WASTEWATER PRESERV. SAMPLING OLIVER: OLIVER: DATE: TIME P-12-13 -07 B-11-3 -09 R-11-3 -13 R-11-3 -25	A A A A A A A A A A A A A A A A A A A		
PLEASE NOTE: Liebility and Damages. Cardinal's tability and client's exclusive remedy for any claim arising whether based in cor analyses. All claims including those for negligence and any other cause whetsoever shall be deemed waived unless made in writin	tract or tort, shall be limited to the amount peld by the client for the		

service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

Relinquished By:	Date: 8-23-1 Received By:	Phone Result:	Add'l Phone #: Add'l Fax #:	
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Sampler - UPS - Bus - Oth		# <u> </u>		

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

Kathy Purvis

From:

Bratcher, Mike, EMNRD < mike.bratcher@state.nm.us>

Sent:

Tuesday, August 13, 2013 8:48 AM

To:

Cliff P. Brunson

Cc:

Bradley Blevins; Ken Swinney; Jennifer Gilkey; Kathy Purvis

Subject:

RE: Chevron Benson Shugart WFU #11 Leak Site

Cliff,

Your proposed amendment for this site is approved by OCD, pending like approval by BLM.

Thank you for your time to discuss this incident and reach an amenable solution.

Mike Bratcher NMOCD District 2 811 S. First Street Artesia, NM 88210 O: 575-748-1283 X108

C: 575-626-0857 F: 575-748-9720

From: Cliff P. Brunson [mailto:cbrunson@bbcinternational.com]

Sent: Monday, August 12, 2013 6:47 PM

To: Bratcher, Mike, EMNRD

Cc: Bradley Blevins; Ken Swinney; Jennifer Gilkey; Kathy Purvis **Subject:** FW: Chevron Benson Shugart WFU #11 Leak Site

Mike,

Per our discussion this afternoon, Chevron would now like to amend the previously submitted remediation plan to now include an excavation of 4 feet with an impermeable liner placed in the bottom of the excavation area and then backfill the site with clean soil. The existing line in the leak area will be abandoned and re-routed through another area per an agreement with the BLM as well.

If you would please respond via e-mail with your agreement to this new plan, it would be greatly appreciated.

Thanks,

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
Shipping Address:
1324 W. Marland St.
Hobbs, NM 88240 USA
Phone: (575) 397-6388
Fax: (575) 397-0397

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From: Cliff Brunson < cbrunson@bbcinternational.com>

Date: Monday, August 5, 2013 7:25 PM

To: Mike Bratcher <mike.bratcher@state.nm.us>

Cc: Bradley Blevins <bradley.blevins@chevron.com>, Ken Swinney <kswinney@bbcinternational.com>, Kathy Purvis

<kathy@bbcinternational.com>, Jennifer Gilkey <jgilkey@bbcinternational.com>

Subject: Chevron Benson Shugart WFU #11 Leak Site

Mike.

I have attached a remediation packet that includes a site drawing, lab summary table, groundwater plot, and original lab data for your review. I would like to call you early Tuesday morning to discuss this remediation plan on the phone so we could get an approval to move forward on this leak site. I would like to talk to you before 10 a.m. if possible. Please let me know.

Here is the proposal that I would like to make: BBC sampled three spots to a depth of 18 feet without reaching the 250 ppm range for chloride. We then drilled a soil boring to a depth of 85 feet when we did get results below 250 ppm. As depicted in the diagram, the injection line that leaked runs right down the center of the leak area. This line is approximately 3.5 to 4 feet below the surface. With depth to water being in the range of 175 to 200 feet, Chevron would like to propose an excavation of 3 feet in depth then install a compacted clay liner and back fill the leak site. This depth will allow for revegetation and in the interest of safety, the excavation will stay above the line and the line will not be compromised by being potentially damaged by excavation or being put in danger by a free span or having to block up the line to support it.

I appreciate your time and I look forward to discussing this plan with you.

Thanks, 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 Shipping Address: 1324 W. Marland St. Hobbs, NM 88240 USA Phone: (575) 397-6388 Fax: (575) 397-0397

E-Mail: cbrunson@bbcinternational.com

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Kathy Purvis

From:

Cliff P. Brunson <cbrunson@bbcinternational.com>

Sent:

Wednesday, September 04, 2013 7:05 PM

To:

Kathy Purvis

Subject:

FW: Chevron Benson Shugart WFU #11 Leak Site

Kathy,

Here is the approval from the BLM.

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

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From: Bradley Blevins < bradley.blevins@chevron.com>

Date: Thursday, August 22, 2013 3:26 PM

To: Cliff Brunson <cbrunson@bbcinternational.com>, Ken Swinney@bbcinternational.com>

Subject: Fwd: Chevron Benson Shugart WFU #11 Leak Site

Sent from my iPhone

Begin forwarded message:

From: "Burton, Michael" <mburton@blm.gov> Date: August 22, 2013, 3:23:06 PM MDT

To: "Blevins, Bradley G" < Bradley.Blevins@chevron.com> Subject: Re: FW: Chevron Benson Shugart WFU #11 Leak Site

This plan is approved as written. Please keep myself informed of any changing condition's or changes to this plan.

Thanks

Mike Burton **BLM-CFO**

Environmental Protection Specialist

575-234-2226 office 575-361-3574 cell mburton@blm.gov

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On Thu, Aug 22, 2013 at 10:30 AM, Blevins, Bradley G < <u>Bradley.Blevins@chevron.com</u> > wrote:
Mike,
Do you approve the proposed plan?
Thanks
From: Cliff P. Brunson [mailto:cbrunson@bbcinternational.com] Sent: Wednesday, August 14, 2013 9:50 AM To: Burton, Michael Cc: Blevins, Bradley G; Ken Swinney; Jennifer Gilkey; Kathy Purvis Subject: Re: Chevron Benson Shugart WFU #11 Leak Site
Mike,
I have attached the remediation packet to this message. I originally sent it to you on August 5th, however, as you know Chevron has amended the excavation depth to 4 feet. Also, we would ask to waive the stipulation of bottom sampling as we know that chloride will be left in place and we already have data below the excavation depth as you will see in the packet. If you have any questions, please let me know.
Thanks,
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
Shipping Address:
1324 W. Marland St.
Hobbs, NM 88240 USA
Phone: (575) 397-6388
Fax: (575) 397-0397
E-Mail: cbrunson@bbcinternational.com

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From: "Burton, Michael" < <u>mburton@blm.gov</u> > Date: Wednesday, August 14, 2013 6:28 AM
To: Cliff Brunson < cbrunson@bbcinternational.com
Subject: Re: FW: Chevron Benson Shugart WFU #11 Leak Site

I do not believe I have this plan or I misplaced it. Can you fwd it to me so I can attach my stips to it? Thanks

Cliff,

Mike Burton

BLM-CFO

Environmental Protection Specialist

575-234-2226 office

575-361-3574 cell

mburton@blm.gov

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email and delete this email from your system. Thank you.
. On Tue, Aug 13, 2013 at 6:23 PM, Cliff P. Brunson < cbrunson@bbcinternational.com > wrote:
Mike,
Chevron has amended the remediation plan to now excavate down to 4 feet rather than 3 feet then add an impermeable liner. As you can see below, Mike Bratcher of the NMOCD has agreed to this amended plan. We are therefore asking for the BLM's approval as well. If you would please reply back via e-mail, it would be greatly appreciated.
Thank you,
Cliff
Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. 80x 805
Hobbs, NM 88241-0805 USA

Shipping Address:
1324 W. Marland St.
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Phone: (575) 397-6388
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From: Mike Bratcher <mike.bratcher@state.nm.us> Date: Tuesday, August 13, 2013 8:47 AM To: Cliff Brunson <cbrunson@bbcinternational.com> Cc: Bradley Blevins bradley.blevins@chevron.com>, Ken Swinney <kswinney@bbcinternational.com>, Jennifer Gilkey <jgilkey@bbcinternational.com>, Kathy Purvis <kathy@bbcinternational.com> Subject: RE: Chevron Benson Shugart WFU #11 Leak Site</kathy@bbcinternational.com></jgilkey@bbcinternational.com></kswinney@bbcinternational.com></cbrunson@bbcinternational.com></mike.bratcher@state.nm.us>
Cliff,
Your proposed amendment for this site is approved by OCD, pending like approval by BLM.
Thank you for your time to discuss this incident and reach an amenable solution.
Mike Bratcher
NMOCD District 2
811 S. First Street
Artesia, NM 88210
O: 575-748-1283 X108

C: 575-626-0857

F: 575-748-9720

From: Cliff P. Brunson [mailto:cbrunson@bbcinternational.com] Sent: Monday, August 12, 2013 6:47 PM To: Bratcher, Mike, EMNRD
Cc: Bradley Blevins; Ken Swinney; Jennifer Gilkey; Kathy Purvis Subject: FW: Chevron Benson Shugart WFU #11 Leak Site
Mike,
Per our discussion this afternoon, Chevron would now like to amend the previously submitted remediation plan to now include an excavation of 4 feet with an impermeable liner placed in the bottom of the excavation area and then backfill the site with clean soil. The existing line in the leak area will be abandoned and rerouted through another area per an agreement with the BLM as well.
If you would please respond via e-mail with your agreement to this new plan, it would be greatly appreciated.
Thanks,
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

Shipping Address:
1324 W. Marland St.
Hobbs, NM 88240 USA
Phone: (575) 397-6388
Fax: (575) 397-0397
E-Mail: cbrunson@bbcinternational.com

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From: Cliff Brunson < cbrunson@bbcinternational.com>

Date: Monday, August 5, 2013 7:25 PM

To: Mike Bratcher < mike.bratcher@state.nm.us>

Cc: Bradley Blevins < <u>bradley.blevins@chevron.com</u>>, Ken Swinney@bbcinternational.com>,

Kathy Purvis <kathy@bbcinternational.com>, Jennifer Gilkey <jgilkey@bbcinternational.com>

Subject: Chevron Benson Shugart WFU #11 Leak Site

Mike,

I have attached a remediation packet that includes a site drawing, lab summary table, groundwater plot, and original lab data for your review. I would like to call you early Tuesday morning to discuss this remediation plan on the phone so we could get an approval to move forward on this leak site. I would like to talk to you before 10 a.m. if possible. Please let me know.

Here is the proposal that I would like to make: BBC sampled three spots to a depth of 18 feet without reaching the 250 ppm range for chloride. We then drilled a soil boring to a depth of 85 feet when we did get results below 250 ppm. As depicted in the diagram, the injection line that leaked runs right down the center of the leak area. This line is approximately 3.5 to 4 feet below the surface. With depth to water being in the range of 175 to 200 feet, Chevron would like to propose an excavation of 3 feet in depth then install a compacted clay liner and back fill the leak site. This depth will allow for revegetation and in the interest of safety, the excavation will stay above the line and the line will not be compromised by being potentially damaged by excavation or being put in danger by a free span or having to block up the line to support it.

I appreciate your time and I look forward to discussing this plan with you.

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

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Thanks, Cliff

N T

Chevron

Benson Shugart WFU #11

Firewall Tanks Flow line Hachmentation Road Leak Area SP2 160' x 50' \$\frac{1}{2}\$ Leak point

U/L I, Section 26, T18S, R30E 2310' FSL and 330' FEL Eddy County, NM N 32.71690° W 103.93508° API# 30-015-20528

BBC International, Inc.						
Chevron						
Benson Shugart WFU #11						
Date: 05/07/2013	DRWG by: K. Purvis					
NOT TO SCALE	File: Chevron 2013					



Groundwater Plot

Chevron Benson Shugart WFU #11

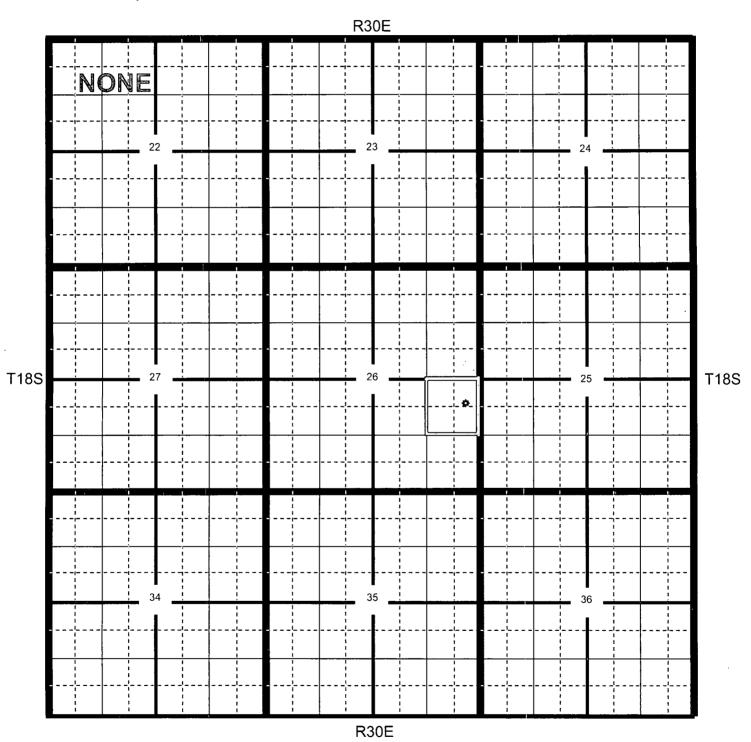
County Eddy Unit Letter

Section 26

Township 18S Range 30E

Trend Map

175'-200'



Location

OCD

OUSGS

OSEO

All Databases



Section Quarters

Chevron Benson Shugart WFU #11

County Eddy Unit Letter

Section 26

Township 18S

Range 30E

Trend Map 175'-200'

1

2

	1		<i></i>
NW/NW	NE/NW	NW/NE	NE/NE
NONE	! !	1 1 1 1	1 1 1
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	 	! !	1
	i i i 1		
Unit Letter D	Unit Letter C	Unit Letter B	Unit Letter A
SW/NW	SE/NW ¦	SW/NE	SE/NE
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Unit Letter E	Unit Lefter F	Unit Letter G	Unit Letter H
NW/SW !	NE/SW	NW/SE	NE/SE
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Unit Letter L	Unit Letter K	Unit Letter J	Unit Letter I
SW/SW	SE/SW	SW¦SE	SE/SE
! !			ŧ ŧ
	! ! !		
Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P

3

4

♣ Location

o OCD

OUSGS

O SEO

All Databases

Laboratory Analytical Results Summary Benson Shugart WFU #11

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 6'	SP1 @ 9'	SP1 @ 12'	SP1 @ 15'	SP1 @ 18'
Analyte	Method	Date	5/28/13	5/28/13	5/28/13	5/28/13	5/28/13	5/28/13	5/28/13
			mg/Kg	mġ/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B	1	<0.150	n/a	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B	1	7920	4240	2720	3400	4680	5680	12800
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 6'	SP2 @ 9'	SP2 @ 12'	SP2 @ 15'	SP2 @ 18'
Analyte	Method	Date	5/28/13	5/28/13	5/28/13	5/31/13	5/31/13	5/31/13	5/31/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		9800	5120	2560	8000	4080	5920	4560
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a

		Sample	SP3 @ 1'	SP3 @ 3'	SP3 @ 6'	SP3 @ 9'	SP3 @ 12'	SP3 @ 15'	SP3 @ 18'
Analyte	Method	Date	5/31/13	5/31/13	5/31/13	5/31/13	5/31/13	5/31/13	5/31/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	n/a	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		3920	5920	4560	5120	6400	4560	5440
GRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a	n/a	n/a	n/a

Laboratory Analytical Results Summary BS WFU #11

		Sample	SB1 @ 20'	SB1 @ 30'	SB1 @ 40'	SB1 @ 50'	SB1 @ 60'	SB1 @ 70'	SB1 @ 80'	SB1 @ 85'
Analyte	Method	Date	6/27/13	6/27/13	6/27/13	6/27/13	6/27/13	6/27/13	6/27/13	6/27/13
			mg/Kg							
Chloride	SM4500CI-B		2160	2320	2400	2600	2000	1560	208	144



June 06, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: BS WFU #11

Enclosed are the results of analyses for samples received by the laboratory on 06/03/13 10:55.

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 accredited certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To: (575) 397-0397

Received:

06/03/2013 06/06/2013 Sampling Date: Sampling Type: 05/28/2013

Reported:

BS WFU #11

Sampling Condition:

Soil Cool & Intact

Project Name: Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

LOCO HILLS, NM

Sample ID: SP 1 @ 1 FT (H301290-01)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2013	ND	2.24	112	2.00	6.40	
Toluene*	<0.050	0.050	06/05/2013	ND	2.02	101	2.00	9.20	
Ethylbenzene*	< 0.050	0.050	06/05/2013	ND	2.19	109	2.00	10.4	
Total Xylenes*	< 0.150	0.150	06/05/2013	ND	6.37	106	6.00	8.90	
Total BTEX	<0.300	0.300	06/05/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	122 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7920	16.0	06/06/2013	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/05/2013	ND	195	97.6	200	1.42	
DRO >C10-C28	<10.0	10.0	06/05/2013	ND	197	98.7	200	2.74	
Surrogate: 1-Chlorooctane	103 %	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	110 9	63.6-15	4						

Sample ID: SP 1 @ 3 FT (H301290-02)

Chloride, SM4500CI-B	mg	/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	06/06/2013	ND	432	108	400	3.77	

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Celey D. Keens



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

Fax To: (575) 397-0397

Received: Reported: 06/03/2013

Project Name:

06/06/2013 BS WFU #11 NONE GIVEN

Project Number: Project Location:

LOCO HILLS, NM

Sampling Date:

Sampling Type:

05/28/2013 **S**oil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SP 1 @ 6 FT (H301290-03)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	06/06/2013	ND	432	108	400	3.77	
Sample ID: SP 1 @ 9 FT (H3	301290-04)								
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW		,			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3400	16.0	06/06/2013	ND	432	108	400	3.77	
Sample ID: SP 1 @ 12 FT (H	1301290-05)								
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4680	16.0	06/06/2013	ND	432	108	400	3.77	
Sample ID: SP 1 @ 15 FT (H	(301290-06)								
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	06/06/2013	ND	432	108	400	3.77	
Sample ID: SP 1 @ 18 FT (H	(301290-0 7)								
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12800	16.0	06/06/2013	ND	416	104	400	3.77	

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Celey D. Keene



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

Fax To:

(575) 397-0397

Received:

06/03/2013

Sampling Date:

05/28/2013

Reported:

06/06/2013

Sampling Type:

Soil

Project Name:

BS WFU #11

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

LOCO HILLS, NM

Sample ID: SP 2 @ 1 FT (H301290-08)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2013	ND	2.24	112	2.00	6.40	
Toluene*	<0.050	0.050	06/05/2013	ND	2.02	101	2.00	9.20	
Ethylbenzene*	<0.050	0.050	06/05/2013	ND	2.19	109	2.00	10.4	
Total Xylenes*	<0.150	0.150	06/05/2013	ND	6.37	106	6.00	8.90	
Total BTEX	<0.300	0.300	06/05/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	122 9	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9800	16.0	06/06/2013	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/05/2013	ND	195	97.6	200	1.42	
DRO >C10-C28	<10.0	10.0	06/05/2013	ND	197	98.7	200	2.74	
Surrogate: 1-Chlorooctane	101 9	65.2-14	0				· <u> </u>		
Surrogate: 1-Chlorooctadecane	109 9	63.6-15	4						

Sample ID: SP 2 @ 3 FT (H301290-09)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	06/06/2013	ND	416	104	400	3.77	

Cardinal Laboratories *=Accredited Analyte

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Celey & Keine



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

Fax To:

(575) 397-0397

Received: Reported: 06/03/2013

06/06/2013 BS WFU #11

Project Name: Project Number:

NONE GIVEN

Project Location:

LOCO HILLS, NM

Sampling Date:

Sampling Type:

05/28/2013

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 2 @ 6 FT (H301290-10)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	06/06/2013	ND	416	104	400	3.77	
Sample ID: SP 2 @ 9 FT (H3	801290-11)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	06/06/2013	ND	416	104	400	3.77	
Sample ID: SP 2 @ 12 FT (H	 301290-12)							
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4080	16.0	06/06/2013	ND	416	104	400	3.77	
Sample ID: SP 2 @ 15 FT (H	I301290-13))							
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5920	16.0	06/06/2013	ND	416	104	400	3.77	
Sample ID: SP 2 @ 18 FT (H	301290-14	1							
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	06/06/2013	ND	416	104	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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Celey & Kune



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

Fax To:

(575) 397-0397

Received:

06/03/2013

Sampling Date:

05/31/2013

Reported:

Soil

06/06/2013

Sampling Type:

Project Name:

BS WFU #11 NONE GIVEN Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number: Project Location:

LOCO HILLS, NM

Sample ID: SP 3 @ 1 FT (H301290-15)

BTEX 8021B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/05/2013	ND	2.24	112	2.00	6.40	
Toluene*	< 0.050	0.050	06/05/2013	ND	2.02	101	2.00	9.20	
Ethylbenzene*	<0.050	0.050	06/05/2013	ND	2.19	109	2.00	10.4	
Total Xylenes*	<0.150	0.150	06/05/2013	ND	6.37	106	6.00	8.90	
Total BTEX	<0.300	0.300	06/05/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL

122 %

89.4-126

Chloride, SM4500CI-B	/kg	Analyze	d By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	16.0	06/06/2013	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/05/2013	ND	195	97.6	200	1.42	
DRO >C10-C28	<10.0	10.0	06/05/2013	ND	197	98.7	200	2.74	

Surrogate: 1-Chlorooctane

93.3 %

65.2-140

Surrogate: 1-Chlorooctadecane

102 %

63.6-154

Sample ID: SP 3 @ 3 FT (H301290-16)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5920	16.0	06/06/2013	ND	416	104	400	3.77	

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Celey & Keine



BBC International, Inc.

(575) 397-0397

Cliff Brunson P.O. Box 805

Hobbs NM, 88241

Fax To:

Received:

06/03/2013

Reported:

06/06/2013

Project Name: Project Number: BS WFU #11 NONE GIVEN

Project Location:

LOCO HILLS, NM

Sampling Date:

05/31/2013

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SP 3 @ 6 FT (H301290-17)

Chloride, SM4500CI-B	mg,	/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	06/06/2013	ND	416	104	400	3.77	
Sample ID: SP 3 @ 9 FT (I	H301290-18)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	06/06/2013	ND	416	104	400	3.77	
Sample ID: SP 3 @ 12 FT	(H301290-19))							
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	06/06/2013	ND	416	104	400	3.77	
Sample ID: SP 3 @ 15 FT	(H301290-20))							
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	06/06/2013	ND	416	104	400	3.77	
Sample ID: SP 3 @ 18 FT	(H301290-21))							
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	06/06/2013	ND	416	104	400	3.77	

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Celey D. Keine



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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Of 11 10 6 9 0 1 1 1

	(505) 393-2326 FAX (505) 393-24	/0												_			
Company Name	BBC International, Inc.		,	E II	ee To					ANA	LYSIS	RE	QUE	ST.			
Project Manage	Cliff Brunson			P.O. #:													
Address: P.O.	Box 805			Company:			ł . I		ļ	1					.	ŀ	
city: Hobbs	State: NM	zip: 88241		Attn:		0 /	ľl	.									
	397-6388 Fax #: 57	5-397-0397		Address	N/								. "		ŀ		
Project #:		Chevron		City:	~ 70C						.[[. [· · [. 1
	BS WFU#11			State:	Zip:							•					. 1
Project Location				Phone #	<i>)</i>			ł					,		. 1	.	
Sampler Name:				Fax #:													
FOR LAB USE ONLY		N.	MATRIX	PRESERV.	SAMPLI	NG]						.]]	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER	SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	DATE	TIME	-72	TP H	B-Te)								
	SPZ@ IF+		$X \sqcup L$	X	5-28-3	9:05	X	X	X								
2	SP 2@ 3F+		X	X	5-28	9:48	X										
3	SPIC OFF		X		5-28	10:38	X										
4	5P1@9FF			X	5-38	11:20	χ			· ·							
5	SP2@ 12F+		\times	X	5-28	12:00	X.										
6	SP10 15F4		X	<u> </u>	5-20	1:38	X										
	5P1@18FF	62	$X \mid \cdot \mid$	1	5-28	2:25	X	-	. 						 		
8	5P2@ 2F+	62	A + A	X	5-28	2:45		ス	Δ	_	1						
9	5826 6F+	62	X	\ <u>\</u>	5-28 5-38	7:55	X	-	<u> </u>		+						

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 past by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed warved unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by Clent, its subsidiaries,

Relinquished By:	Date: 3/13 Received By	House, occi cann is passe upon any of the above states.	Phone Result: Fax Result:	☐ Yes	□ No	Add'l Phone #: Add'l Fax #:		
	Time: 9:00 4m		REMARKS:					
Relinguished by:	Date 31,3 Received By	i Henson			• .			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	∞ ا مر	nple Condition CHECKED BY: of Intact Ves D Yes No No		·			·	

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

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

age 10 of 11

(303) 393-2326 FAX (303) 393-2476		
Company Name: BBC International, Inc.	BILL TO	ANALYSIS REQUEST
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:	
Project #: Project Owner: Chevion	City:	
Project Name: BS WFU#/	State: Zip:	
Project Location: Loco #i)\5	Phone #:	
Sampler Name: Cory RAY	Fax #:	
FOR LAB USE ONLY MATRIX	PRESERV. SAMPLING	
MO W RH		
Tap I.D. Samble I.D.		* D
Lab I.D. Sample I.D.		
H301290 (G)RA WASST (G) (G)RA WASST (G) (G) (G) (G) (G) (G) (G) (G) (G) (G)	ACIDIGAS ACIDICAS ACIDIGAS ACIDICANA ACIDIGAS ACIDICANA ACIDIGAS ACIDICANA ACIDIGAS ACIDICANA A	
1115720977 1012 1	5-36 9:30 X	
12 SP 20 12F4 62 X 13 SP 20 15 F4 62 X	X 5-31 (0:15 X	
13 RP 20 15 FH 62 X	X 5-31 11:00 X	
14/5P2@18FF G1 X	X 571 11 45 X	
15 F3@ 1A+ 62 X	177	XX
16593@ 3F+ 62 X	X 5-31 1:30 X	
175778 6F4 62 X	K 5-31 1:55 X	
18 673@ 9F+ 61 X	7 5-31 2:30 X	
Prze 12Ft 67 X	5-3(3: (0 X	
70 83 8FF 62 X	act or lort, shall be limited in the amount paid by the client for the	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in co	act or tort, shall be limited to the amount paid by the client for the	

PLEASE NOTE: Liability and Damages. Cardinat's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

		nal, regardless of whether such claim is based upon any of the above stated reas	Phone Result:	☐ Yes	□ No	Add'l Phone #:
	6/5/13		Fax Result:	☐ Yes	□ No	Add'l Fax #:
Ti	8:10gm		REMARKS:			and the control of th
Relinquished By. Da	73/13 R	lodi Henson				
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	50	Sample Condition CHECKED BY: Cool Intact (Initials) Yes 12 Yes No No No				

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

101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(505) 393-2326 FAX (505) 393-2476	<u> </u>	
Company Name: BBC International, Inc.		ANALYSIS REQUEST
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:	
Project #: Project Owner: Chevron	City: / /\ \	
Project Name: 85 WFV #11	State: Zip:	
Project Location: Loco Hills	Phone #.	
Sampler Name: Gory RAU	Fax #:	
FOR LAB USE ONLY MATRIX	PRESERV. SAMPLING	
Tap I.D. Sample I.D. (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL		
CONTAINERS GROUNDWATE CONTAINERS GROUNDWATE CONTAINERS GROUNDWATE CONTAINERS GROUNDWATE CONTAINERS ACID/BASE: OTHER: THER: THER		
21 SP3@ BFF 62 X	K 5-31 9:15 X	
	 	
		
	 	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contr analyses. All claims including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing:		<u> </u>

Relinquished By: /	Date: /2 //2	Received By:		hone Result;	□ Yes	□ No	Add'l Phone #:	
	6/3115	<i>X </i>	<u>LF</u>	ax Result:	☐ Yes	□ No	Add'l Fax #:	
	Time; WALL		R	REMARKS:				
Relinquished By	Date:	Received By:		*				
	Time:	godi se	enson		•			
Delivered By: (Circle One)		U Sample Condition	CHECKET BY:					
Sampler - UPS - Bus - Other:	4	Cool Intact Yes Yes No No	Chigada		,			

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



July 09, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: BS WF #11

Enclosed are the results of analyses for samples received by the laboratory on 07/01/13 16:35.

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.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg & Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To:

(575) 397-0397

Received:

07/01/2013

Sampling Date:

06/27/2013

Reported:

07/09/2013

Sampling Type:

BS

432

BS

432

Soil

Project Name:

BS WF #11 NONE GIVEN Sampling Condition: Sample Received By:

** (See Notes) Jodi Henson

Project Number: Project Location:

LOCO HILLS, NM

Sample ID: SB 1 @ 20' (H301552-01) Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte

Result Reporting Limit 2160 16.0

Analyzed 07/09/2013 Method Blank ND

% Recovery 108

True Value QC 400

Qualifier

Chloride

Chloride

Chloride

Chloride

Chloride, SM4500Cl-B

mg/kg

Result

2320

Analyzed By: AP

0.00

RPD

Sample ID: SB 1 @ 30' (H301552-02)

Analyte

Reporting Limit

16.0

16.0

Reporting Limit

16.0

Analyzed

07/09/2013

Method Blank

% Recovery

108

True Value QC 400

400

400

RPD

0.00

Qualifier

Chloride, SM4500CI-B

Sample ID: SB 1 @ 40' (H301552-03)

mg/kg

Analyzed By: AP

Analyte

Result

2400

Result

2600

Reporting Limit Analyzed 07/09/2013

Method Blank ND

ND

ND

BS 432

432

% Recovery

108

108

True Value QC RPD

Qualifier

0.00

Sample ID: SB 1 @ 50' (H301552-04)

Chloride, SM4500Cl-B

Analyte

mg/kg

Analyzed By: AP

Analyzed

07/09/2013

Method Blank

BS % Recovery True Value QC

RPD 0.00

Oualifier

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Celey D. Keene



BBC International, Inc.

Cliff Brunson P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received:

07/01/2013

Sampling Date:

06/27/2013

Reported:

07/09/2013

Sampling Type:

Soil

** (See Notes)

Project Name:

BS WF #11 NONE GIVEN Sampling Condition: Sample Received By:

Jodi Henson

Project Number: Project Location:

LOCO HILLS, NM

Sample ID: SB 1 @ 60' (H301552-05)

Chlorida SM4500Cl-R					
	D	CL	CMAEO	ماءنحماء	Chi

mg/kg

Analyzed By: AP

Analyte

Reporting Limit Result

Analyzed

Method Blank

BS % Recovery True Value QC 400

Qualifier

Chloride

2000

07/09/2013 16.0

ND

432

108

RPD

0.00

Sample ID: SB 1 @ 70' (H301552-06)

Chloride, SM4500CI-B

Analyte

Analyzed By: AP

Chloride

Chloride

Chloride

Result 1560 Reporting Limit Analyzed 16.0 07/09/2013 Method Blank ND

BS 432 % Recovery 108

True Value QC 400

RPD

Qualifier

Sample ID: SB 1 @ 80' (H301552-07)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte

Result

208

Result

144

Reporting Limit

16.0

16.0

Analyzed 07/09/2013 Method Blank ND

BS 432 % Recovery 108

True Value QC

400

RPD

0.00

Qualifier

Analyzed By: AP

ND

400

0.00

Sample ID: SB 1 @ 85' (H301552-08)

Chloride, SM4500CI-B

Analyte

mg/kg

Reporting Limit Analyzed

07/09/2013

Method Blank

BS

416

% Recovery

104

True Value QC RPD

Qualifier 0.00

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Celeg & treene



ND

Notes and Definitions

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

Chloride by SM4500CI-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

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keens

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(505) 393-2326 FAX (505) 393-247	6																	
Company Name	BBC International, Inc.				1016		LL 70	TENNET				ANA	LYSIS	S RE	QUE	ST			
Project Manage	Cliff Brunson				F	P.O. #:									-				
Address: P.O.	Box 805				c	Company:		/		٠.				[·	ŀ				
city: Hobbs	State: NM	Zìp	; 8	8241	A	Attn:							l	1	ŀ	1			
Phone #: 575-	397-6388 Fax #: 575	39	7-0	397	A	Address:	\mathcal{O}					 			[·	
Project #:	Project Owner	: (Chi	evion	c	City:	MILL		,		.					[i			
Project Name:	BS WF #11				s	State:	Pip:		<u> </u>		ļ.				!	ļ			
Project Location	(xo Hills				P	hone #:		·											
Sampler Name:	Gary RAy				F	ax #:									 	!		1	
FOR LAB USE ONLY	. 1			MATRIX		PRESERV.	SAMPLI	√G							ļ		•		
Lab I.D. H301552	Sample I.D.	(G)RAB OR (C)OM	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER.	OTHER: ACID/BASE: LICE / COOL OTHER:	DATE	TIME	-70							÷			
1	SBLC 30	6	2	X	\perp	λ	@# (-b		X										
7	SD 2@ 30	G	2	X		X	6-27-13	9:42	X										
3	5B1@40	G	1		1		6-27-13	10:05	X]			<u> </u>]		
<u> </u>	SB 1 @ 50	Ğ			+		5-27-13					 					*****		
5	587660	\mathcal{G}	1		1		6-27-13	10.49	Ŋ.			 Ŀ			·				
	5820 70	8	2		+		627-17	11:10	X.	1		 							
4	581 @ 80 581 @ 85	8	2		7		627-13	1142	<i>X</i>			 	<u> </u>					$-\!+$	
ا ح	SB2C 85	w	1	<u> </u>	+	X	6-27-13	1152	1			 							
	·	-			+		·	_				 	·						

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profils incurred by client, its subsidiaries,

Relinquished By:	Receive	ed By:		Phone Result: Fax Result:	□ Yes	□ No	Add'l Phone #: Add'l Fax #:		_
	135 40	au su	Moon	REMARKS:					
	Date: Receiv	ed By:	÷ :						
	lime:						•		
Delivered By: (Circle One)		Sample Condition Cool Intact	CHECKED BY:	·. ·				•	
Sampler - UPS - Bus - Other:	160	Yes Yes	CFA					•	

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



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 Revised October 10, 2003 Submit 2 Copies to appropriate

Form C-141

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

Release Notification and Corrective Action

						OPERA'	TOR		Initial Report		Final Report
Name of Co		Chevron De		asin			Bradley Blevins				
		0, Hobbs, N				Telephone l		<u>-1462</u>			
Facility Na	ne Bens	on Shugart	#11 Well	and Battery		Facility Typ	e WFU				
Surface Ow	ner BLM			Mineral O	wner			AP	I#30-015-20	528	
				LOCA	TIO	OF REI	LEASE				
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/West L	ine County		
I	26	18S	30E	2310	,	South	330	East	Eddy Co	ounty, NI	Л
			I	atitude N 32.7	<u>′1690°</u>	Longitue	de <u>W 103,9350</u>	<u>8°</u>			
				NAT	URE	OF RELI	EASE				
Type of Rele		iced Water				Volume of			me Recovered		
Source of Re	lease Inje	ction line leak	•				Iour of Occurrence 3 @ 1:00 am	e Date	and Hour of D	iscovery	
Was Immedia	ate Notice C	iven?				If YES, To	Whom?				
		\boxtimes	Yes _	No 🗌 Not Re	quired	Mike Brate	cher- NMOCD; Ja	mes Amos- B	LM		
By Whom?							Iour 05/01/2013				
Was a Water	course Reac		Yes 🛛	l No		If YES, Vo	lume Impacting t	he Watercours	se.		İ
TC - IV						<u> </u>					
If a Watercou	irse was im	pacted, Descri	oe Fully,								
Describe Cau											
An injection repaired.	line leak ca	used 133 bbls	of produc	ed water to leak o	onto the	ground. 90 b	obls of fluid were	recovered via	vacuum truck	and the li	ine was
Describe Are	a Affected a	ınd Cleanup A	ction Tak	en.*							
				An injection line							
recovered via		ick and the lin	ie was repa	iired. Further rem	edianon	i will be perto	ormed in accordar	ice with a NM	OCD and BLM	1 approv	ea
				is true and compl-							
regulations al	l operators a	are required to	report an	d/or file certain re e of a C-141 repor	elease no	otifications ar	nd perform correct	tive actions fo	r releases which	h may er	idanger
should their o	perations ha	ave failed to a	dequately	investigate and re	mediate	contamination	on that pose a thre	eat to ground v	water, surface v	vater, hu	man health
or the environ	ment. In ac	ldition, NMO	CD accept	ance of a C-141 r	eport do	es not relieve	e the operator of r	esponsibility 1	for compliance	with any	other
federal, state,	or local law	/s and/or regu	lations.				OIL CONS	PEDVATION	ON DIVISI	ON	
G:	K	n T	0 -				OIL COIN	N A WITH	ופועונותות	<u>UN</u>	
Signature:	Juan	ly-()	Clone				District Co. 1				
Printed Name	: Bradley	Blevins		-	/	approved by	District Superviso	or:			
Title: HE S	pecialist					Approval Date	e:	Expirat	tion Date:		
E-mail Addre	ss: Bradle	ey.blevins@cl	nk.com			Conditions of	Approval:		Attache	d 🔲	
Date: 05/06				none: (575) 391-1	462	·					
Attach Addit	ional Chas	to TENTALLE									