

Bratcher, Mike, EMNRD

From: Cliff P. Brunson <cbrunson@bbcinternational.com>
Sent: Monday, August 05, 2013 7:26 PM
To: Bratcher, Mike, EMNRD
Cc: Bradley Blevins; Ken Swinney; Kathy Purvis; Jennifer Gilkey
Subject: Chevron Benson Shugart WFU #11 Leak Site
Attachments: Remediation Packet- BS WFU 11.pdf

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:
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OSE CP00818 26-18s-30E
Depth well: 240' No other data
32.716581 103.940529
Leak site:
32.71690 103.93508
RBAMS 015-20528 well site:
32.717554 103.935179
500yds from a residence
with (likely) the 00818 water
well drilled to 240'
290yds from Playa 869'

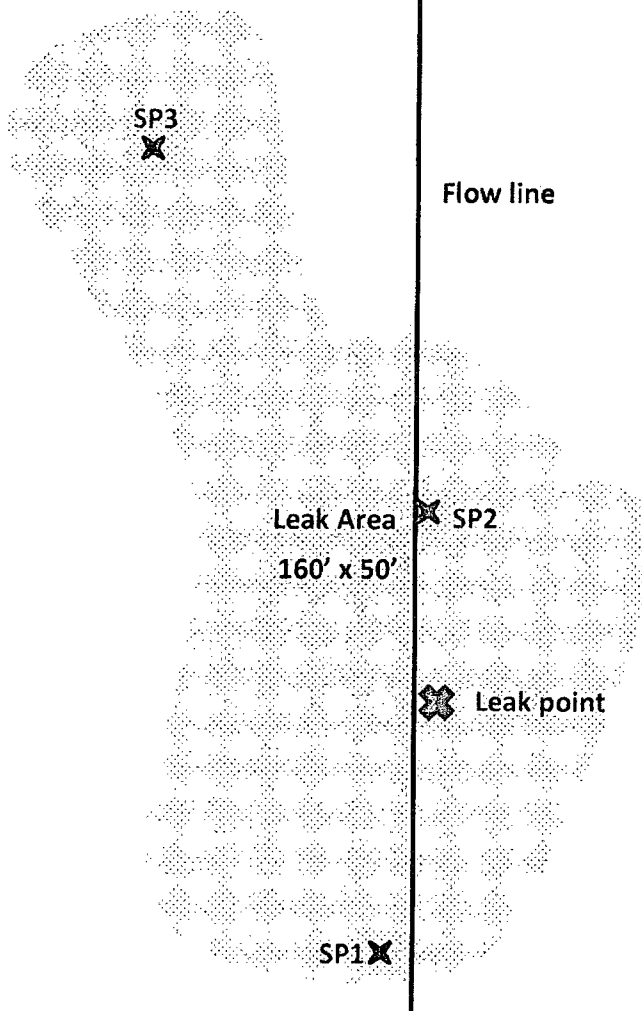
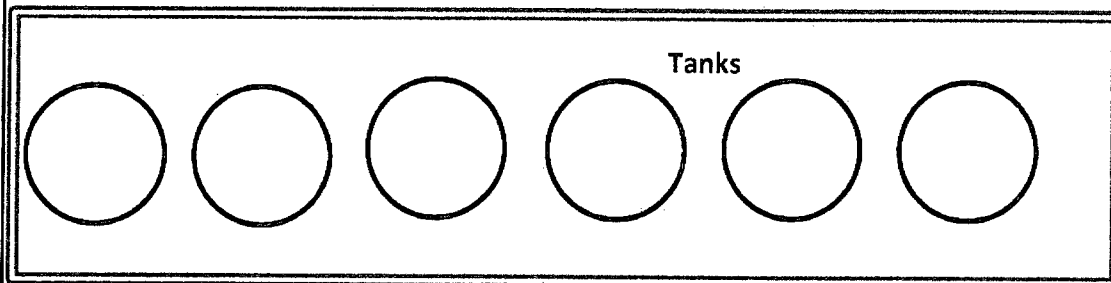
Site findings at least 10

Talked to Cliff
8/12 ie not want
liner over flowline
& depth 4'



Chevron
Benson Shugart WFU #11

Firewall



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

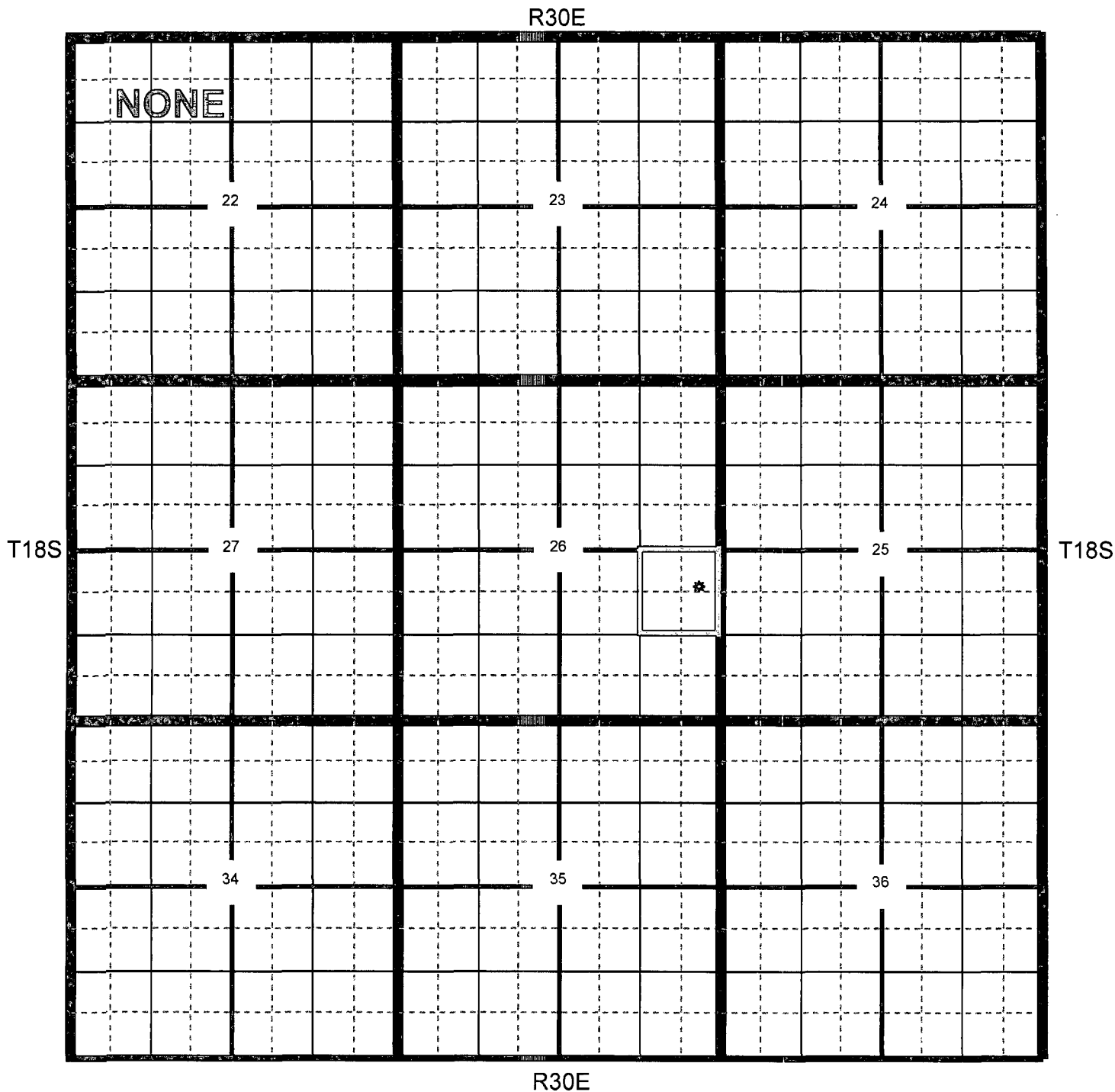
Unit Letter
I

Section
26

Township
18S

Range
30E

Trend Map 175'-200'



★ Location

● OCD

○ USGS

● SEO

● All Databases



Section Quarters

Chevron Benson Shugart WFU #11

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

Trend Map 175'-200'

1

2

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

3

4

Location

OCD

USGS

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	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	SM4500Cl-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	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	SM4500Cl-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	SM4500Cl-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	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B		2160	2320	2400	2600	2000	1560	208	144



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

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_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: 06/03/2013
 Reported: 06/06/2013
 Project Name: BS WFU #11
 Project Number: NONE GIVEN
 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 1 @ 1 FT (H301290-01)

BTEX 80218			mg/kg		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 (PID) 122 % 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	7920	16.0	06/06/2013	ND	432	108	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

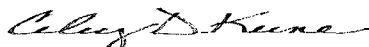
Sample ID: SP 1 @ 3 FT (H301290-02)

Chloride, SM4500Cl-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. 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: 06/03/2013
 Reported: 06/06/2013
 Project Name: BS WFU #11
 Project Number: NONE GIVEN
 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 1 @ 6 FT (H301290-03)

Chloride, SM4500Cl-B		mg/kg	Analyzed 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 (H301290-04)

Chloride, SM4500Cl-B		mg/kg	Analyzed 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 (H301290-05)

Chloride, SM4500Cl-B		mg/kg	Analyzed 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 (H301290-06)

Chloride, SM4500Cl-B		mg/kg	Analyzed 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 (H301290-07)

Chloride, SM4500Cl-B		mg/kg	Analyzed 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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Analytical Results For:

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

 Received: 06/03/2013
 Reported: 06/06/2013
 Project Name: BS WFU #11
 Project Number: NONE GIVEN
 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)

BTX 8021B		mg/kg		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 BTX	<0.300	0.300	06/05/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 122 % 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	9800	16.0	06/06/2013	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 % 65.2-140

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	

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Celey D. Keene, Lab Director/Quality Manager

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

 Received: 06/03/2013
 Reported: 06/06/2013
 Project Name: BS WFU #11
 Project Number: NONE GIVEN
 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 @ 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 (H301290-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed 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)

Chloride, SM4500Cl-B		mg/kg		Analyzed 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, SM4500Cl-B		mg/kg		Analyzed 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		

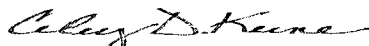
Sample ID: SP 2 @ 18 FT (H301290-14)

Chloride, SM4500Cl-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		

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

 Received: 06/03/2013
 Reported: 06/06/2013
 Project Name: BS WFU #11
 Project Number: NONE GIVEN
 Project Location: LOCO HILLS, NM

 Sampling Date: 05/31/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

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

BTX 8021B		mg/kg		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 BTX	<0.300	0.300	06/05/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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	3920	16.0	06/06/2013	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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, SM4500Cl-B		mg/kg		Analyzed 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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*=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: 06/03/2013
 Reported: 06/06/2013
 Project Name: BS WFU #11
 Project Number: NONE GIVEN
 Project Location: LOCO HILLS, NM

 Sampling Date: 05/31/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: 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 (H301290-18)

Chloride, SM4500CI-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	

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

Chloride, SM4500CI-B		mg/kg	Analyzed 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	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 @ 18 FT (H301290-21)

Chloride, SM4500CI-B		mg/kg	Analyzed 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. 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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Page 0 of 11

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#154



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

24
Page 10 of 11

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: Chevron		City:																	
Project Name: BS WFU#11				State: Zip:																	
Project Location: loco Hills				Phone #:																	
Sampler Name: Gary Ray				Fax #:																	
FOR LAB USE ONLY																					
Lab I.D.		Sample I.D.		(G/RAB OR C/JOMP. # CONTAINERS)		MATRIX		PRESERV.		SAMPLING											
						GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		ACID/BASE: ICE/COOL OTHER:		DATE TIME											
H301290				G 1		X		X		5-31 9:30		CL									
11 SP2@ 9FT		G 1		X				X		5-31 10:15		TPH									
12 SP2@ 12FT		G 1		X				X		5-31 11:00		B-TEX									
13 SP2@ 15FT		G 1		X				X		5-31 11:45											
14 SP2@ 18FT		G 1		X				X		1:00 2:00		X X									
15 SP3@ 1FT		G 1		X				X		5-31 1:30											
16 SP3@ 3FT		G 1		X				X		5-31 1:55											
17 SP3@ 6FT		G 1		X				X		5-31 2:30											
18 SP3@ 9FT		G 1		X				X		5-31 3:10											
19 SP2@ 12FT		G 1		X				X		5-31 3:39											
20 SP3@ 15FT		G 1		X				X													

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Relinquished By:		Date: 6/2/13		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Time: 8:00am						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date: 6/3/13		Received By: Jodi Benson		REMARKS:			
Time: 10:55									
Delivered By: (Circle One)									
Sampler - UPS - Bus - Other:		50		Sample Condition Cool / Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY:			

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**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST308
Page 11 of 11

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: Chevron		City:																																	
Project Name: BS WFD #11				State:																																	
Project Location: Loco Hills				Phone #:																																	
Sampler Name: Gary Ray				Fax #:																																	
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING		CL																											
Lab I.D.		Sample I.D.		GROUNDWATER		WASTEWATER		SOIL														OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME	
H301290		21 SP3 @ 18 ft		6		1		X																				X						5-31		9:15	

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Relinquished By:		Date: 6/3/13		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Time: 8:10 am						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS:			
Time:									
Delivered By: (Circle One)									
Sampler - UPS - Bus - Other:		50		Sample Condition					
				Cool - Intact					
				<input type="checkbox"/> Yes <input type="checkbox"/> No					
				<input type="checkbox"/> Yes <input type="checkbox"/> No					
				CHECKED BY:					

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

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

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 accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in cursive script, reading "Coley D. Keene".

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 07/01/2013
 Reported: 07/09/2013
 Project Name: BS WF #11
 Project Number: NONE GIVEN
 Project Location: LOCO HILLS, NM

 Sampling Date: 06/27/2013
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

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

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	07/09/2013	ND	432	108	400	0.00	

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

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	07/09/2013	ND	432	108	400	0.00	

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

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	07/09/2013	ND	432	108	400	0.00	


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

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	07/09/2013	ND	432	108	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: 07/01/2013
 Reported: 07/09/2013
 Project Name: BS WF #11
 Project Number: NONE GIVEN
 Project Location: LOCO HILLS, NM

 Sampling Date: 06/27/2013
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
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' (H301552-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed 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' (H301552-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed 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' (H301552-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed 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	

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Caley D. Keene, Lab Director/Quality Manager

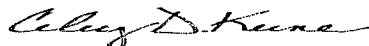
Notes and Definitions

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 5 of 5

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: <i>Chevron</i>		City: <i>SANP</i>																									
Project Name: <i>BS WF #11</i>				State: <i>SANP</i>																									
Project Location: <i>Loop Hills</i>				Phone #:																									
Sampler Name: <i>Corey Ray</i>				Fax #:																									
FOR LAB USE ONLY																													
Lab I.D.		Sample I.D.		G/RAB OR (C)OMP.		# CONTAINERS		MATRIX				PRESERV.		SAMPLING															
								GROUNDWATER																					
								WASTEWATER																					
								SOIL																					
								OIL																					
								SLUDGE																					
								OTHER:																					
								ACID/BASE:																					
								ICE / COOL																					
								OTHER:																					
												DATE		TIME															
H301552				G 2		2						X		6-27-13 9:20		X													
1 SB1 @ 20				G 2		2						X		6-27-13 9:42		X													
2 SB1 @ 30				G 2		2						X		6-27-13 10:05		X													
3 SB1 @ 40				G 2		2						X		6-27-13 10:24		X													
4 SB1 @ 50				G 2		2						X		6-27-13 10:49		X													
5 SB1 @ 60				G 2		2						X		6-27-13 11:10		X													
6 SB1 @ 70				G 2		2						X		6-27-13 11:42		X													
7 SB1 @ 80				G 2		2						X		6-27-13 11:55		X													
8 SB1 @ 85				G 2		2																							

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Relinquished By: <i>[Signature]</i>		Date: <i>11/1/13</i>		Received By: <i>Jodi Jensen</i>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Time: <i>4:35</i>		Date:		Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Relinquished By:		Time:				REMARKS:			
Delivered By: (Circle One)				Sample Condition		CHECKED BY:			
Sampler - UPS - Bus - Other:				Cool Intact		Initials			
				<i>16°C</i>		<i>[Signature]</i>			

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#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 #11 Well and Battery	Facility Type	WFU
Surface Owner	BLM	Mineral Owner	API # 30-015-20528

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 32.71690° Longitude W 103.93508°

NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	133 bbls	Volume Recovered	90 bbls
Source of Release	Injection line leak	Date and Hour of Occurrence	05/01/2013 @ 1:00 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	05/01/2013 @ 4:25 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.* An injection line leak caused 133 bbls of produced water to leak onto the ground. 90 bbls of fluid were recovered via vacuum truck and the line was repaired.					
Describe Area Affected and Cleanup Action Taken.* The area affected us approximately 100' x 250'. An injection line leak caused 133 bbls of produced water to leak onto the ground. 90 bbls of fluid were recovered via vacuum truck and the line was repaired. 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: 		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: 05/06/2013		Phone: (575) 391-1462			

* Attach Additional Sheets If Necessary