### HOBBS OCD

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 Resource 1 4 2014

Form C-141 Revised October 10, 2003

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

RECEIVED

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

			Rel	ease Notific	atior	and Co	orrective A	ction			
						OPERA'	ror		Initi	al Report	Final Report
Name of Co		Chesapeake					Bradley Blevins				
		0, Hobbs, N	M 88241	·		Telephone l					
Facility Na	ne Tyke	Federal #1				Facility Typ	e Well locati	on			
Surface Ow	ner BLM			Mineral O	wner				API No	o. 30-025-3104	1
				LOCA	TION	OF RE	LEASE				
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/W	est Line	County	
L	17	18S	32E .	1650	5	South	660 _	L v	Vest	Lea County, N	IM
_			]	Latitude N 32.74	1477°	Longitud	de <u>W 103.7952</u>	0°			
						OF REL	-				
Type of Rele	ase Oil a	nd produced v	vater	NAI	UKE	Volume of	Release 12 bbl	ls oil	Volume l	Recovered 8 b	bls oil
							produced water				
Source of Re	lease Hol	le in the circul	lating line				Iour of Occurrenc I @ 10:00 am	;e	Date and	Hour of Discove	ery
Was Immedia	ate Notice C	Given?				If YES, To					
			Yes _	No 🔲 Not Rec	quired		eking- NMOCD,	James A	Amos- BL	M	
By Whom?	Cliff Brunse	on, BBC Inter	national		_	Date and F	Tour 02/21/2014	@ 3:18 r	om		
Was a Water		hed?				If YES, Vo	olume Impacting t	he Wate	rcourse.		
_			Yes 🛚	l No							
If a Watercou	irse was Im	pacted, Descr	ibe Fully.'	k							
Describe Cau A hole in the circulating lin	circulating	line caused 12	2 bbls of o	1 Taken.* il and 2 bbls of pro	oduced s	water to leak	onto the ground.	A vacuu	ım truck r	ecovered 8 bbls	of oil and the
	cted was ap	proximately 1	10' x 35'	en.* in the northwest conce with a remedia						utside of the fire	wall and fence
regulations all public health should their o	l operators or the envir perations hannent. In a	are required to conment. The ave failed to a ddition, NMO	o report an acceptance adequately OCD accep	is true and compled/or file certain relee of a C-141 reportinvestigate and retaince of a C-141 research	lease no t by the mediate	tifications ar NMOCD ma contamination	nd perform correct arked as "Final Ro on that pose a thre	tive action eport" do eat to gro	ons for reli oes not reli ound water	eases which may leve the operator r, surface water,	endanger of liability human health
** *	5 11	771.					OIL CONS	SERV	ATION	DIVISION	
Signature:	Sadle	15levin									
Printed Name	: Bradley	Blevins			A	Approved by	District Supervise	Speci	chry		
Title: EHS	Specialist				- 1		e: 7-/4-/4			Date: <b>9-18</b> 7	'4
E-mail Addre	ss: Bradi	ey blevins@c	hk.com			Conditions of				A (1)	
	27/14			ne: (575) 391-1462						Attached	` <u>}</u>
Attach Addit				()		Delini	oles cymud. une 2 molis Nuoco gui	ut 4)	S	<u> </u>	0grid 4313 17014195384

# **Closure Report**

JUL 1 4 2014

	Site Description	RECEIVED
Site Name:	Tyke Federal #1	
Company:	Chevron Operating Inc.	,
Legal Description:	U/L L, Section 17, T18S, R32E	
County:	Lea County, NM	
GPS Coordinates:	N 32.74477° W 103.79520°	

Release Data						
Date of Release:	02/20/2014					
Type of Release:	Oil and produced water					
Source of Release:	Hole in the circulating line					
Volume of Release:	12 bbls oil and 2 bbls produced water					
Volume Recovered:	8 bbls oil and 0 bbls produced water					

Remediation Specifications						
Remediation Parameters:	Excavate to a depth of 2 feet in the entire leak area. Install a clay liner in the area around SP1. Backfill the entire site with clean soil.					
Remediation Activities:	06/11/2014 to 07/01/2014					

Plan Sent to OCD:	04/25/2014	Meeting between G. Leking & C. Brunson
OCD Approval of Plan:	04/25/2014	Meeting between G. Leking & C. Brunson
Plan Sent to BLM:	04/28/2014	Email from Cliff Brunson to Mike Burton
BLM Approval of Plan:	04/30/2014	Email from Mike Burton to Cliff Brunson

Supporting Documentation					
Initial C-141	Signed 02/27/2014				
Final C-141	Signed 07/07/2014				
Site Diagram	February 2014				
Groundwater Plot	100'				
TOPO Maps	February 2014				
Lab Summary	03/25/2014				
Lab Analysis	03/25/2014				
Correspondence	Request and approval of remediation plan via email				

# Request for Closure

Based on the completion of the remediation plan as agreed upon, BBC International requests closure approval from NMOCD.

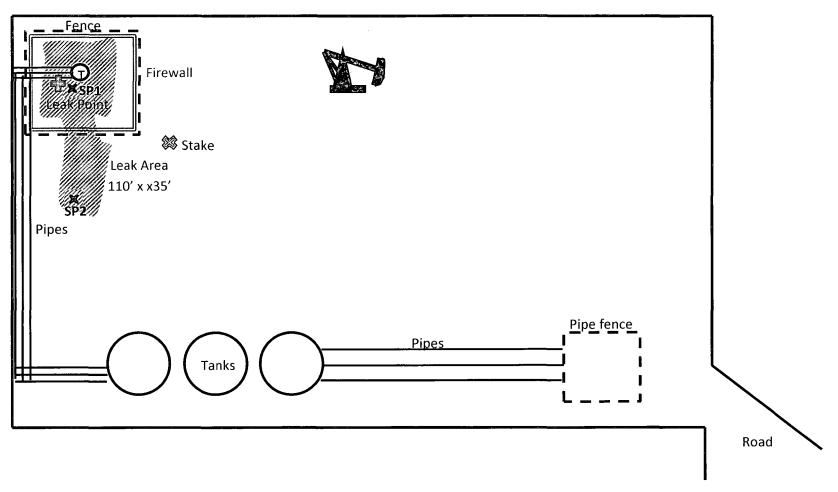
Cliff Brunson, President of BBC International Inc.

07/09/2014

# N 介

### Chevron

## Tyke Federal #1



U/L L, Section 17, T18S, R32E 1650' FSL, 660' FWL Lea County, NM

GPS at stake: N 32.74477° W 103.79520°

API# 30-025-31041

BBC Intern	ational, Inc.					
Chevron						
Tyke Federal #1  Date: 02/27/2014 DRWG by: K. Purvis						
Date: 02/27/2014	DRWG by: K. Purvis					
NOT TO SCALE	File: Chevron 2014					



### **Groundwater Plot**

# Chevron Tyke Federal #1

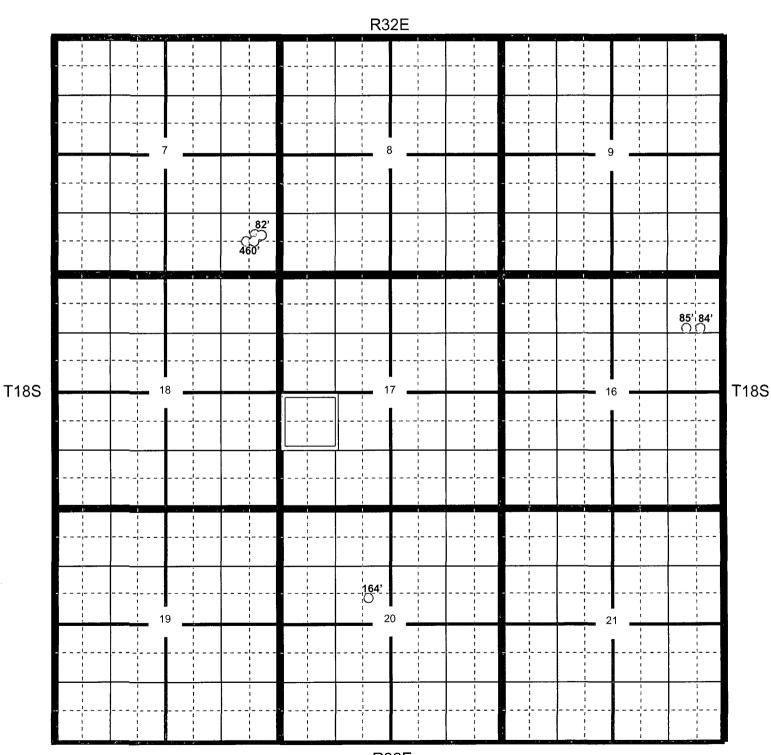
County Lea

Unit Letter

Section 17 Township 18S Range 32E

Trend Map

100'



R32E

o OCD

OUSGS

○ SEO

O All Databases



## Section Quarters

# Chevron Tyke Federal #1

County Lea Unit Letter

Section 17 Township 18S Range 32E

Trend Map 100'

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2

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Location

o OCD

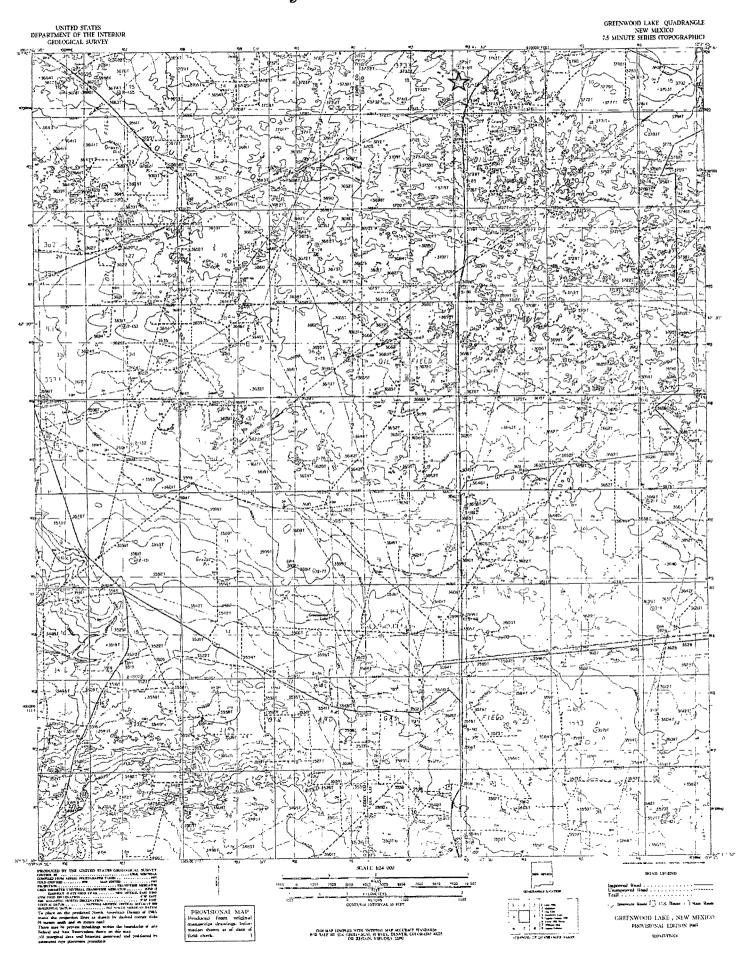
OUSGS

o seo

O All Databases

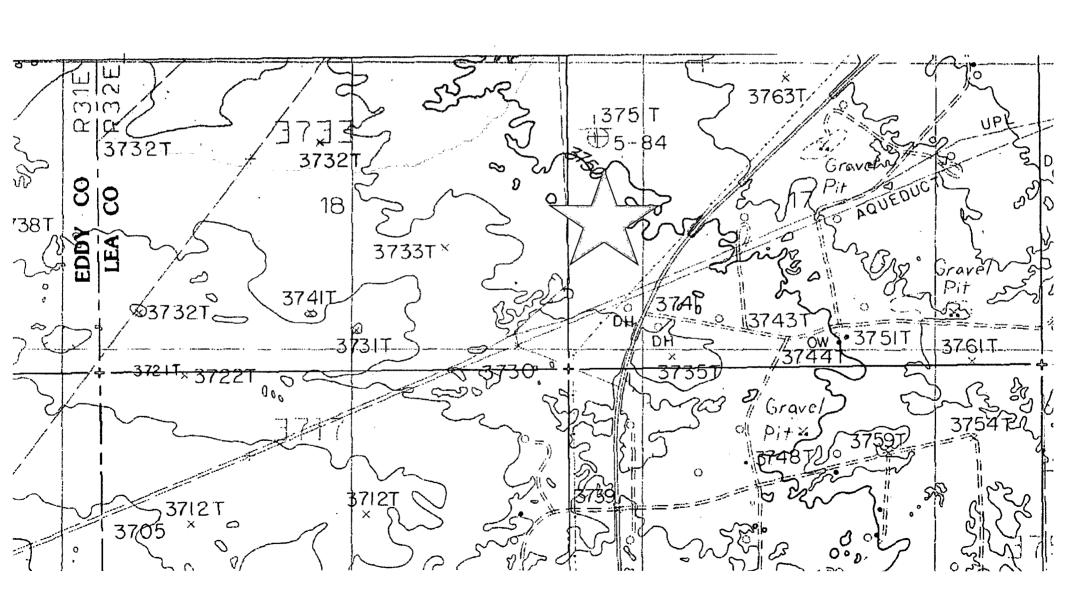
# Chevron

# Tyke Federal #1



Chevron

Tyke Federal #1



# Laboratory Analytical Results Summary Tyke Federal #1

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 5'	SP1 @ 7'	SP1 @ 9'	SP1 @ 11'
Analyte	Method	Date	3/25/14	3/25/14	3/25/14	3/25/14	3/25/14	3/25/14	3/25/14
			mg/Kg						
Benzene	BTEX 8021B		<2.00	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		70.2	<0.050	< 0.050	<0.050	0.097	<0.050	<0.050
Ethylbenzene	BTEX 8021B		85.4	0.508	0.692	<0.050	0.617	<0.050	<0.050
Total Xylenes	BTEX 8021B		194	1.43	1.95	<0.150	1.65	<0.150	<0.150
Total BTEX	BTEX 8021B		319	1.94	2.64	<0.300	2.36	<0.300	< 0.300
Chloride	SM4500CI-B		80	80	112	1170	1520	1710	<16.0
GRO	TPH 8015M		2700	77.5	67.1	<10.0	40	<10.0	<10.0
DRO	TPH 8015M		7760	1080	884	139	622	135	<10.0

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 5'	SP2 @ 7'
Analyte	Method	Date	3/25//14	3/25/14	3/25/14	3/25/14	3/25/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<1.00	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		9.57	<0.050	< 0.050	<0.050	< 0.050
Ethylbenzene	BTEX 8021B		24.6	0.347	<0.050	<0.050	< 0.050
Total Xylenes	BTEX 8021B		70.2	0.908	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		104	1.26	<0.300	<0.300	< 0.300
Chloride	SM4500CI-B		48	32	48	192	<16.0
GRO	TPH 8015M		1210	60.2	<10.0	<10.0	<10.0
DRO	TPH 8015M		4820	855	298	21.5	<10.0



April 01, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: TYKE FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 03/26/14 8:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> 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. Keene

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:

03/26/2014

Sampling Date:

03/25/2014

Reported:

04/01/2014

Sampling Type:

Soil

Project Name:

TYKE FEDERAL #1

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

LEA COUNTY, NM

Sample ID: SP 1 @ 1' (H400894-01)

BTEX 8021B	mg/kg		Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<2.00	2.00	04/01/2014	ND	2.48	124	2.00	12.9		
Toluene*	70.2	2.00	04/01/2014	ND	2.36	118	2.00	12.8		
Ethylbenzene*	85.4	2.00	04/01/2014	ND	2.32	116	2.00	13.3		
Total Xylenes*	194	6.00	04/01/2014	ND	6.70	112	6.00	12.8		
Total BTEX	319	12.0	04/01/2014	ND						
Surrogate: 4-Bromofluorobenzene (PIL	141 5	% 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	80.0	16.0	03/31/2014	ND	416	104	400	0.00		
TPH 8015M	mg/	kg	Analyze	d By: ms					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	2700	50.0	03/28/2014	ND	208	104	200	4.06		
DRO >C10-C28	7760	50.0	03/28/2014	ND	200	99.9	200	3.28		
Surrogate: 1-Chlorooctane	179 9	65.2-14	0							
Surrogate: 1-Chlorooctadecane	221 9	63.6-15	4							

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: 03/26/2014

04/01/2014

TYKE

Project Name: Project Number: TYKE FEDERAL #1
NONE GIVEN

Project Location:

LEA COUNTY, NM

Sampling Date:

03/25/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SP 1 @ 2' (H400894-02)

BTEX 8021B	mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2014	ND	2.48	124	2.00	12.9	
Toluene*	<0.050	0.050	04/01/2014	ND	2.36	118	2.00	12.8	
Ethylbenzene*	0.508	0.050	04/01/2014	ND	2.32	116	2.00	13.3	
Total Xylenes*	1.43	0.150	04/01/2014	ND	6.70	112	6.00	12.8	
Total BTEX	1.94	0.300	04/01/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	148 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/31/2014	ND	416	104	400	0.00	
TPH 8015M	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	77.5	10.0	03/28/2014	ND	208	104	200	4.06	
DRO >C10-C28	1080	10.0	03/28/2014	ND	200	99.9	200	3.28	
Surrogate: 1-Chlorooctane	118 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	1149	% 63.6-15	4						

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\*=Accredited Analyte

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Celey L. Kune



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

Fax To: (575) 397-0397

Received:

03/26/2014

Sampling Date:

03/25/2014

Reported:

04/01/2014

Sampling Type:

Soil

Project Name:

TYKE FEDERAL #1

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

LEA COUNTY, NM

Sample ID: SP 1 @ 3' (H400894-03)

BTEX 8021B	mg/	/kg	Analyze	d By: MS	- PC				S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2014	ND	2.48	124	2.00	12.9	
Toluene*	<0.050	0.050	04/01/2014	ND	2.36	118	2.00	12.8	
Ethylbenzene*	0.692	0.050	04/01/2014	ND	2.32	116	2.00	13.3	
Total Xylenes*	1.95	<b>1.95</b> 0.150		ND	6.70	112	6.00	12.8	
Total BTEX	2.64	<b>2.64</b> 0.300		ND					
Surrogate: 4-Bromofluorobenzene (PIL	fluorobenzene (PIC 159 % 89.4-1		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	112	16.0	03/31/2014	ND	416	104	400	0.00	
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	67.1	10.0	03/28/2014	ND	208	104	200	4.06	
DRO >C10-C28	<b>884</b> 10.0 0		03/28/2014	ND	200	99.9	200	3.28	
Surrogate: 1-Chlorooctane	125 9		0						
Surrogate: 1-Chlorooctadecane			4						

Cardinal Laboratories

\*=Accredited Analyte

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Celey L. Keine



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

Fax To:

(575) 397-0397

Received: Reported: 03/26/2014

04/01/2014

Project Name:

TYKE FEDERAL #1

Project Number: Project Location:

NONE GIVEN

LEA COUNTY, NM

Sampling Date:

03/25/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: SP 1 @ 5' (H400894-04)

BTEX 8021B	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2014	ND	2.48	124	2.00	12.9	
Toluene*	<0.050 0.050		04/01/2014	ND	2.36	118	2.00	12.8	
Ethylbenzene*	<0.050	<0.050 0.050		ND	2.32	116	2.00	13.3	
Total Xylenes*	<0.150 0.150		04/01/2014	ND	6.70	112	6.00	12.8	
Total BTEX	<0.300	0.300	04/01/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	115 9	% 89.4-12	6						
Chloride, SM4500Cl-B	kg	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed Method Blank		BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	03/31/2014	ND	416	104	400	0.00	
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	03/28/2014	ND	208	104	200	4.06	
DRO >C10-C28	139	10.0	03/28/2014	ND	200	99.9	200	3.28	
Surrogate: 1-Chlorooctane	99.5	% 65.2-14	0	· ·					
Surrogate: 1-Chlorooctadecane	112 9	63.6-15	4						

#### 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:

03/26/2014

Sampling Date:

03/25/2014

Reported:

04/01/2014

Sampling Type:

Soil

Project Name:

TYKE FEDERAL #1
NONE GIVEN

Sampling Condition:

Cool & Intact

Project Number: Project Location:

LEA COUNTY, NM

Sample Received By:

Jodi Henson

Sample ID: SP 1 @ 7' (H400894-05)

BTEX 8021B	mg/kg		Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2014	ND	2.48	124	2.00	12.9	
Toluene*	0.097	0.050	04/01/2014	ND	2.36	118	2.00	12.8	
Ethylbenzene*	<b>0.617</b> 0.050		04/01/2014	4/01/2014 ND		116	2.00	13.3	
Total Xylenes*	<b>1.65</b> 0.150		04/01/2014	ND	6.70	112	6.00	12.8	
Total BTEX	2.36	<b>2.36</b> 0.300		ND					
Surrogate: 4-Bromofluorobenzene (PIL	139 9	% 89.4-12	26					_	
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1520	16.0	03/31/2014 ND		416	104	400	0.00	
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	40.0	10.0	03/28/2014	ND	208	104	200	4.06	
DRO >C10-C28	<b>622</b> 10.0		03/28/2014	ND	200	99.9	200	3.28	
Surrogate: 1-Chlorooctane	106 9	65.2-14	0		-				
Surrogate: 1-Chlorooctadecane	109 9	63.6-15	4						

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Celey D. Kune



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

Fax To:

(575) 397-0397

Received:

03/26/2014

Reported:

04/01/2014

Project Name: Project Number: TYKE FEDERAL #1 NONE GIVEN

Project Location:

LEA COUNTY, NM

Sampling Date:

03/25/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

#### Sample ID: SP 1 @ 9' (H400894-06)

BTEX 8021B	mg/	kg .	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2014	ND	2.48	124	2.00	12.9	
Toluene*	<0.050	0.050	04/01/2014	ND	2.36	118	2.00	12.8	
Ethylbenzene*	<0.050	<0.050 0.050		ND	2.32	116	2.00	13.3	
Total Xylenes*	<0.150	<0.150 0.150		ND	6.70	112	6.00	12.8	
Total BTEX	<0.300	<0.300 0.300		ND					
rrogate: 4-Bromofluorobenzene (PIC 112 % 89.4		6 89.4-12	6						,
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					<u>.</u>
Analyte	Result	Reporting Limit	. Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1710	16.0	03/31/2014	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: ms	<u>.</u>				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD .	Qualifier
GRO C6-C10	<10.0	10.0	03/28/2014	ND	208	104	200	4.06	
DRO >C10-C28			03/28/2014	ND	200	99.9	200	3.28	
Surrogate: 1-Chlorooctane	95.2	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	106 9	93.2% 63.2-140 106% 63.6-154							

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Fax To: (575) 397-0397

Received: Reported: 03/26/2014

04/01/2014

Project Name: Project Number: TYKE FEDERAL #1 NONE GIVEN

Project Location:

LEA COUNTY, NM

Sampling Date:

Sampling Type: Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

03/25/2014

Sample ID: SP 1 @ 11' (H400894-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2014	ND	2.48	124	2.00	12.9	
Toluene*	<0.050	0.050	04/01/2014	ND	2.36	118	2.00	12.8	
Ethylbenzene*	<0.050	0.050	04/01/2014	ND ·	2.32	116	2.00	13.3	
Total Xylenes*	<0.150	<0.150 0.150 0		ND	6.70	112	6.00	12.8	
Total BTEX	<0.300	<0.300 0.300 0		ND					
Surrogate: 4-Bromofluorobenzene (PIL	112 9	112 % 89.4-126							
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	03/31/2014	ND	416	104	400	0.00	
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	03/28/2014	ND	208	104	200	4.06	
DRO >C10-C28			03/28/2014	ND	200	99.9	200	3.28	
Surrogate: 1-Chlorooctane	93.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	99.1	% 63.6-15	4						

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Celey & Keene



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Fax To:

(575) 397-0397

Received:

03/26/2014

Reported:

04/01/2014

Project Name:

TYKE FEDERAL #1

Project Number: Project Location:

NONE GIVEN LEA COUNTY, NM Sampling Date:

03/25/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: SP 2 @ 1' (H400894-08)

BTEX 8021B	mg/kg		Analyze	d By: MS					S-04
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	04/01/2014	ND	2.48	124	2.00	12.9	
Toluene*	9.57	1.00	04/01/2014	014 ND		118	2.00	12.8	
Ethylbenzene*	24.6	1.00	04/01/2014	ND	2.32	116	2.00	13.3	
Total Xylenes*	70.2	<b>70.2</b> 3.00		ND	6.70	112	6.00	12.8	
Total BTEX			04/01/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIE			6						
Chloride, SM4500CI-B	ride, SM4500CI-B mg/kg			d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/31/2014	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1210	50.0	03/28/2014	ND	208	104	200	4.06	
DRO >C10-C28	<b>4820</b> 50.0		03/28/2014	ND	200	99.9	200	3.28	
Surrogate: 1-Chlorooctane	158 5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	157	% 63.6-15	4						

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Fax To:

(575) 397-0397

Received: Reported: 03/26/2014

04/01/2014

Project Name:

TYKE FEDERAL #1

Project Number: Project Location: NONE GIVEN LEA COUNTY, NM Sampling Date:

03/25/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: SP 2 @ 2' (H400894-09)

BTEX 8021B	mg/kg		Analyze	d By: MS			····		S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2014	ND	2.48	124	2.00	12.9	
Toluene*	<0.050	0.050	04/01/2014	04/01/2014 ND		118	2.00	12.8	
Ethylbenzene*	0.347	<b>0.347</b> 0.050		ND 2.32		116	2.00	13.3	
Total Xylenes*	<b>0.908</b> 0.150		04/01/2014	2014 ND		112	6.00	12.8	
Total BTEX	1.26	<b>1.26</b> 0.300		ND					
Surrogate: 4-Bromofluorobenzene (PIL	176	176 % 89.4-126				-			
Chloride, SM4500CI-B	loride, SM4500Cl-B mg/kg			d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/31/2014	ND	416	104	400 .	0.00	
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	60.2	10.0	03/28/2014	ND	208	104	200	4.06	
DRO >C10-C28	<b>855</b> 10.0		03/28/2014	ND	200	99.9	200	3.28	
Surrogate: 1-Chlorooctane	1165	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	112 9	63.6-15	4						

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BBC International, Inc.

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

Fax To:

(575) 397-0397

Received:

03/26/2014

Reported:

04/01/2014

Project Name:

TYKE FEDERAL #1

Project Number: Project Location: NONE GIVEN LEA COUNTY, NM

Sampling Date:

03/25/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: SP 2 @ 3' (H400894-10)

BTEX 80218	mg/	kg	Analyze	d By: MS					
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2014	ND	2.48	124	2.00	12.9	
Toluene*	<0.050	<0.050 0.050		ND	2.36	118	2.00	12.8	
Ethylbenzene*	<0.050	<0.050 0.050		ND	2.32	116	2.00	13.3	
Total Xylenes*	<0.150 0.150		04/01/2014	ND	6.70	112	6.00	12.8	
Total BTEX	<0.300	0.300	04/01/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	122 %	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	48.0	16.0	03/31/2014	ND	416	104	400	0.00	
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	03/28/2014	ND	208	104	200	4.06	
DRO >C10-C28			03/28/2014	ND	200	99.9	200	3.28	
Surrogate: 1-Chlorooctane	101 %	6 65.2-14	0						
Surrogate: 1-Chlorooctadecane	rogate: 1-Chlorooctadecane 107 % 63.6-15		4						

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Fax To:

(575) 397-0397

Received:

03/26/2014

Reported:

04/01/2014

Project Name:

TYKE FEDERAL #1

Project Number:

NONE GIVEN

Sampling Date:

03/25/2014

Sampling Type:

Soil

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

Project Location:

LEA COUNTY, NM

Sample ID: SP 2 @ 5' (H400894-11)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2014	ND	2.48	124	2.00	12.9	
Toluene*	<0.050	0.050	04/01/2014	ND	2.36	118	2.00	12.8	
Ethylbenzene*	<0.050	0.050 0.050 0		ND	2.32	116	2.00	13.3	
Total Xylenes*	<0.150	<0.150 0.150		ND	6.70	112	6.00	12.8	
Total BTEX	<0.300	<0.300 0.300 0		ND					
Surrogate: 4-Bromofluorobenzene (PIL	1149	% 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	192	16.0	03/28/2014	ND	416	104	400	0.00	
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	03/28/2014	ND	208	104	200	4.06	
DRO >C10-C28	21.5			ND	200	99.9	200	3.28	
Surrogate: 1-Chlorooctane	86.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	93.2	93.2 % 63.6-154							

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Fax To: (575) 397-0397

Received:

03/26/2014

Sampling Date:

03/25/2014

Reported:

04/01/2014

Sampling Type:

Soil

Project Name:

TYKE FEDERAL #1

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

LEA COUNTY, NM

Sample ID: SP 2 @ 7' (H400894-12)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2014	ND	2.48	124	2.00	12.9	
Toluene*	<0.050	0.050	04/01/2014	ND	2.36	118	2.00	12.8	
Ethylbenzene*	<0.050	0.050	04/01/2014	ND	2.32	116	2.00	13.3	
Total Xylenes*	< 0.150	0.150	04/01/2014	ND	6.70	112	6.00	12.8	
Total BTEX	<0.300	0.300	04/01/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AP					
· Analyte	···Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/28/2014	ND	416	104	400	0.00	
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	03/28/2014	ND	208	104	200	4.06	
DRO >C10-C28	<10.0			ND	200	99.9	200	3.28	
Surrogate: 1-Chlorooctane	92.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	95.6	% 63.6-15	4						

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Celey D. Keine



#### **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(505) 393-2326 FAX (505) 393-247	6													 						 
Company Name	BBC International, Inc.							. verde s	BI	LL 70	ryponing frança				ANA	LYSIS	RE	QUE	ST		
Project Manage	r: Cliff Brunson						P.O.														
Address: P.O.	Box 805						Con	npan	y:												
city: Hobbs	State: NM	Zip	: 8	824	1		Attn:														
Phone #: 575-	397-6388 Fax #: 575-	39	7-0	397			Add	ress	:												
Project #:	ject #: Project Owner:						City	:													
roject Name: Tyke Federal #1							Stat	e:		Zip:											
Project Location	n: Lea County, NM						Pho	ne #:								Ì					
Sampler Name:	Gary Ray						Fax														
FOR LAB USE ONLY					MATRIX	(		RESI	ERV.	SAMPLI	NG	ŀ									
Lab I.D. H400894	Sample I.D.	(C)OMP. ERS ATER ER				SLUDGE	OTHER:	ACID/BASE: ICE / COOL	OTHER:	DATE	TIME	CI	TP#	6761							
ı	SP1 @ 1'	6	1					/		3/25/14	11:00 AM	1	1	1							
	SP1 @ 2'	G	1		<b>V</b>			<b>✓</b>		3/25/14	11:20 AM	1	✓	<b>✓</b>							
	SP1 @ 3'	Ģ	ı		1			V	1	3/25/14	11:40 AM	1	1	1							
4	SP1 @ 5'	6	j		V			V	1	3/25/14	12:25 PM	✓	✓	✓							
5	SP1 @ 7'	000	1		<b>V</b>			V	1	3/25/14	12:47 PM	✓	1	1							
6	SP1 @ 9'	G	1		<b>V</b>			1		3/25/14	1:20 PM	1	✓	/							
7	SP1 @ 11'	6	'		V			V		3/25/14	1:45 PM	✓	✓	✓							
***************************************		6	1		V			1		3/25/14	2:15 PM	✓	1	<b>✓</b>							
	SP2 @ 2'	6	1		<b>V</b>			V	1_	3/25/14	2:30 PM	✓	1	✓						]	 
	SP2 @ 3'		1		V		丄	V			2:45 PM	✓	<b>✓</b>	<b>V</b>							

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	affiliates or successors arising out of or related to the performance of	of services hereunder by C	ardinal, regard	ess of whether such claim is	s based upon any of the above stated r	easons or otherwise.				
	Relinquished By	Date: 3-26-14	Receive	ed By:		Phone Result:	☐ Yes	□ No	Add'l Phone #:	<u> </u>
		7-26-14	1/10	الما أسا	- A	Fax Result:	☐ Yes	O No	Add'l Fax #:	
		Time: 8:15	1/1//		2 M D) DIN	REMARKS:				
		8:15	400	Ju Gr	enson		-			
	Relinguished By:	Date:	Receive	ed By:			•			
	•	l	)	•					•	
		Time:	1							
			1			1			•	
- 1	Delivered By: (Circle One)		. 1	Sample Conditi	on CHECKED BY:				,	
	, , , , , , , , , , , , , , , , , , , ,			Cool _ Intact /	(fritials)	İ				
	Sampler - UPS - Bus - Other:	1	60	Wes 4 Yes	/44					
		٤.	0 0	☐ No ☐ No	.1 977	1				
					7.1					

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



# ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

Company Name	BBC International, Inc.					T	i Asso I		8/	LL TO	agiai e a la l	i I				ANA	LYSI	S RE	QUE	ST		
	r: Cliff Brunson					7	P.O. #															
Address: P.O.	. Box 805						Comp	any	:													
city: Hobbs	State: NM	Zip	: 8	8241		_/	Attn:															
Phone #: 575-	397-6388 Fax #: 575	39	7-0:	397		1	Addre	ess:									Ì		ļ			
Project #:	Project Owner	:					City:										ľ					
Project Name:	Tyke Federal #1					٤	State:			Zip:									1			
Project Location	n: Lea County, NM					F	hone	e #:											1			
Sampler Name:						F	ax#	:											1			
FOR LAB USE ONLY		·		- 1	MATRIX		PR	ESE	RV.	SAMPL	ING				ŀ				1			
Lab I.D. <u>Н400<i>4</i></u>	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER	SOIL	SLUDGE	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	7)	起	8TBX								
] [	SP2 @ 5'	6	1		<b>✓</b>			1		3/25/14	3:15 PM	1	1	1		<u> </u>						
12	SP2 @ 7'	6	•		$\checkmark$	_	_ _			3/25/14	3:38 PM	✓	1	✓		<u> </u>	ļ		<u> </u>			 
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	3/25/11		-		$\dashv \dashv$	-	1				<del>                                     </del>			l		1		<b> </b>	l			 
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PLEASE NOTE: Liability at	nd Damages. Cardinal's liability and client's exclusive remedy for a	ıy clai	n arisi	ng whether b	ased in cor	tract or	tort, sha	d be ti	nited	to the amount pa	id by the client to	the										

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Relinquished By:	Date: J-Bb- 19	Received By:	. 1		Phone Result:	☐ Yes	□ No	Add'l Phone #:
	7-16-14	1/10 1.	M		Fax Result:	☐ Yes	D No	Add'l Fax #:
	Time: 8:15	1/10/11.	SULLIAN (S	H1	REMARKS:			
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Relinquished By:	Date:	Received By:						
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Delivered By: (Circle One)		Sample C	Condition CHEC	KED BY:				
· ·		nاس Cool ام	ntact / //hi	(ໃສ່ໃຣ)				
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		- 6 4 Hres	No 1	~				

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

### **Kathy Purvis**

From: Cliff P. Brunson < cbrunson@bbcinternational.com>

Sent: Saturday, April 26, 2014 4:00 PM

**To:** Geoffrey Leking

Cc: Bradley Blevins; Ken Swinney; Jennifer Gilkey; Kathy Purvis

**Subject:** Chevron-Tyke Federal #1-Remediation Plan

**Attachments:** Remediation Packet, Tyke Fed #1.pdf

#### Geoff,

This e-mail is to confirm our conversation on April 25, 2014 about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. As discussed, Chevron will excavate to a depth of 2 feet in the leak area around SP1 and then install a clay liner and in the area around SP2, the excavation will be 2 feet as is depicted on the attached site diagram. The site will then be backfilled with clean soil.

If you would please e-mail your concurrence with this remediation 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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\*\*\*\*\*\*\*\*\*\*\*\*

### **Kathy Purvis**

From:

Cliff P. Brunson <cbrunson@bbcinternational.com>

Sent:

Wednesday, April 30, 2014 9:05 AM

To:

Ken Swinney; Jennifer Gilkey; Kathy Purvis; Bradley Blevins

Subject:

Fwd: Chevron-Tyke Federal #1-Remediation Plan

BLM approval.

Sent from my iPhone

Begin forwarded message:

From: "Burton, Michael" < mburton@blm.gov > Date: April 30, 2014 at 9:26:41 AM CDT

To: "Cliff P. Brunson" < <u>cbrunson@bbcinternational.com</u>>
Subject: Re: Chevron-Tyke Federal #1-Remediation Plan

Cliff,

This plan is approved. The BLM event number for this spill will be NU14086MB.

Thanks

Mike Burton BLM-CFO Environmental Protection Specialist 575-234-2226 office 575-361-3574 cell mburton@blm.gov

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On Mon, Apr 28, 2014 at 5:27 PM, Cliff P. Brunson < <u>cbrunson@bbcinternational.com</u>> wrote: Mike and Jim,

This e-mail is to request the BLM's approval for the following remediation plan for the above referenced site. I have attached the materials that pertain to the site and the plan. This plan has already been approved by Geoff Leking of the NMOCD. Chevron will excavate to a depth of 2 feet in the entire spill area as shown on the attached site diagram. Then in the area around SP1, a clay liner will be installed. The entire site will then be backfilled with clean soil.

If you would please e-mail your concurrence with this remediation plan, it would be greatly appreciated. If you have any questions, please let us 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

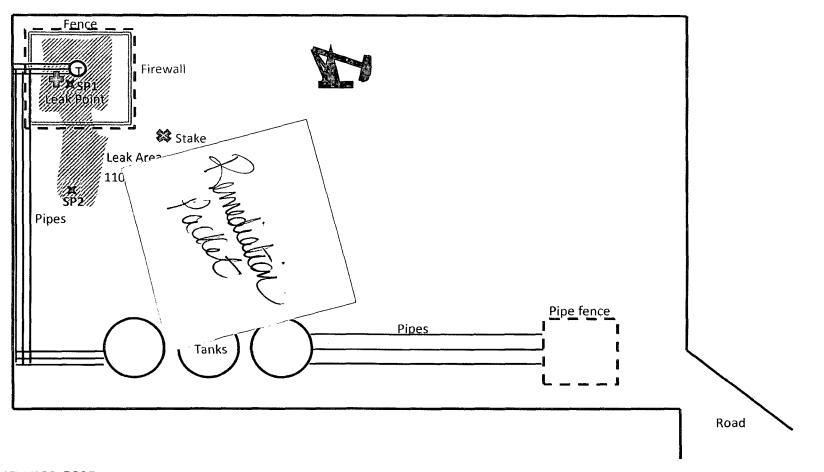
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\*\*\*\*\*\*\*\*\*\*\*\*\*

### Chevron

## Tyke Federal #1



U/L L, Section 17, T18S, R32E 1650' FSL, 660' FWL Lea County, NM

GPS at stake: N 32.74477° W 103.79520°

API# 30-025-31041

BBC International, Inc.						
Chevron						
Tyke F	ederal #1					
Date: 02/27/2014	DRWG by: K. Purvis					
NOT TO SCALE	File: Chevron 2014					



### Groundwater Plot

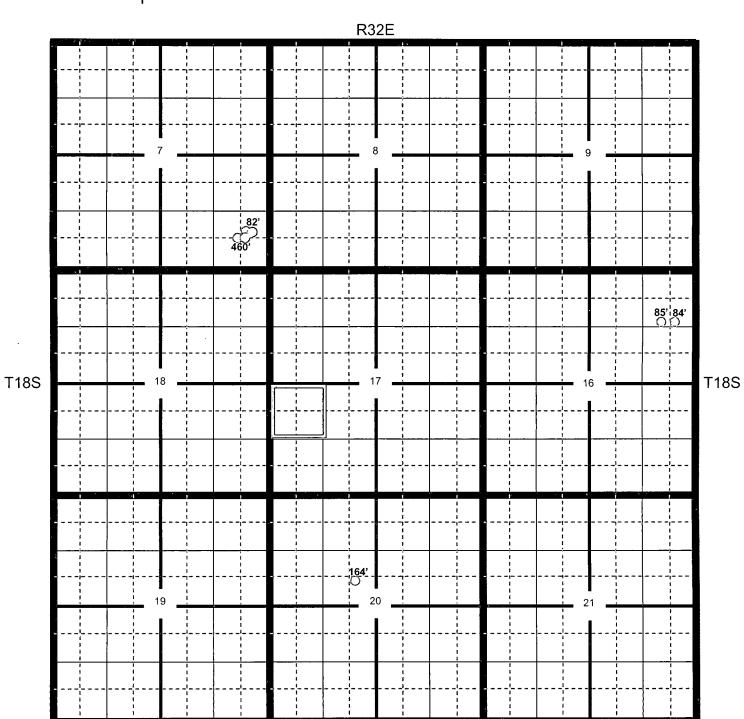
# Chevron Tyke Federal #1

County Lea Unit Letter

Section 17 Township 18S Range 32E

Trend Map

100'



R32E

**☆** Location

o OCD

**OUSGS** 

OSEO

All Databases



### Section Quarters

# Chevron Tyke Federal #1

CountyUnit LetterSectionTownshipRangeLeaL1718S32E

Trend Map 100'

1

NW/NW	NE/NW	NW/NE	NE/NE
NONE	1		:
11011111	1		: :
; ; ;	! ! !	1	
Unit Letter D	¦ Unit Letter C	Unit Letter B	Unit Letter A
SWNW	SE/NW	SWYNE	SE/NE
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Unit Letter E	Unit Letter F	Unit Letter G	Unit Letter H
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SW/SW	SE/SW	SW/SE	SE/SE
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Unit Letter M	Unit Letter N	Unit Letter O	Unit Letter P

3

4

**♦** Location

o OCD

 $\circ_{\,USGS}$ 

o seo

All Databases

# Laboratory Analytical Results Summary Tyke Federal #1

		Sample	SP1@1'	SP1@2'	SP1 @ 3'	SP1 @ 5'	SP1 @ 7'	SP1@9'	SP1 @ 11'
Analyte	Method	Date	3/25/14	3/25/14	3/25/14	3/25/14	3/25/14	3/25/14	3/25/14
			mg/Kg	mg/Kg	mg/Kg	mģ/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<2.00	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B	"	70.2	<0.050	< 0.050	<0.050	0.097	<0.050	<0.050
Ethylbenzene	BTEX 8021B		85.4	0.508	0.692	<0.050	0.617	< 0.050	<0.050
Total Xylenes	BTEX 8021B		194	1.43	1.95	< 0.150	1.65	<0.150	<0.150
Total BTEX	BTEX 8021B		319	1.94	2.64	< 0.300	2.36	< 0.300	< 0.300
Chloride	SM4500CI-B		80	80	112	1170	1520	1710	<16.0
GRO	TPH 8015M		2700	77.5	67.1	<10.0	40	<10.0	<10.0
DRO	TPH 8015M		7760	1080	884	139	622	135	<10.0

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 5'	SP2 @ 7'
Analyte	Method	Date	3/25//14	3/25/14	3/25/14	3/25/14	3/25/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<1.00	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		9.57	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		24.6	0.347	<0.050	<0.050	< 0.050
Total Xylenes	BTEX 8021B		70.2	0.908	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		104	1.26	<0.300	< 0.300	<0.300
Chloride	SM4500CI-B		48	32	48	192	<16.0
GRO	TPH 8015M		1210	60.2	<10.0	<10.0	<10.0
DRO	TPH 8015M		4820	855	298	21.5	<10.0



April 01, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: TYKE FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 03/26/14 8:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.qov/field/ga/lab">www.tceq.texas.qov/field/ga/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.qov/field/ga/lab">www.tceq.texas.qov/field/ga/lab</a> accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.qov/field/ga/lab">www.tceq.texas.qov/field/ga/lab</a> accredited through Texas NELAP under certificate number T104704398-13-5. Accredited by an asterial accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.qov/field/ga/lab">www.tceq.texas.qov/field/ga/lab</a> accredited through Texas NELAP under certificate number T104704398-13-5. Accredited by an asterial accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.qov/field/ga/lab">www.tceq.texas.qov/field/ga/lab</a> accredited through Texas NELAP under certificate number T104704398-13-5. Accredited by a second certificate number T104704398-13-5. Accredited by a second certificate number T104704398-13-5. Accredited by a second number T104704398-13-5. Accredited number T

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. Keene

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:

03/26/2014

Sampling Date:

03/25/2014

Reported:

04/01/2014

Sampling Type:

Soil

Project Name:

TYKE FEDERAL #1

Sampling Condition: Sample Received By:

Cool & Intact Jodi Henson

Project Number:

NONE GIVEN

Project Location: LEA COUNTY, NM

Sample ID: SP 1 @ 1' (H400894-01)

BTEX 8021B	mg,	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	04/01/2014	ND	2.48	124	2.00	12.9	
Toluene*	70.2	2.00	04/01/2014	ND	2.36	118	2.00	12.8	
Ethylbenzene*	85.4	2.00	04/01/2014	ND	2.32	116	2.00	13.3	
Total Xylenes*	194	6.00	04/01/2014	ND	6.70	112	6.00	12.8	
Total BTEX	319	12.0	04/01/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	141 5	% 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	80.0	16.0	03/31/2014	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: ms		. <del></del>			S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2700	50.0	03/28/2014	ND	208	104	200	4.06	
DRO >C10-C28	7760	50.0	03/28/2014	ND	200	99.9	200	3.28	
Surrogate: 1-Chlorooctane	179 9	65.2-14	o						
Surrogate: 1-Chlorooctadecane	221 9	63.6-15	4						

#### Cardinal Laboratories

\*=Accredited Analyte

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Celeg D. Keene



BBC International, Inc.

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

Fax To:

(575) 397-0397

Received:

03/26/2014

Reported: Project Name: 04/01/2014 TYKE FEDERAL #1

Project Number:

NONE GIVEN

LEA COUNTY, NM

Sampling Date:

03/25/2014

Sampling Type:

Soil

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

Project Location:

#### Sample ID: SP 1 @ 2' (H400894-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2014	ND	2.48	124	2.00	12.9	
Toluene*	<0.050	0.050	04/01/2014	ND	2.36	118	2.00	12.8	
Ethylbenzene*	0.508	0.050	04/01/2014	ND	2.32	116	2.00	13.3	
Total Xylenes*	1.43	0.150	04/01/2014	ND	6.70	112	6.00	12.8	
Total BTEX	1.94	0.300	04/01/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	148 9	% 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	80.0	16.0	03/31/2014	ND	416	104	400	0.00	
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	77.5	10.0	03/28/2014	ND	208	104	200	4.06	
DRO >C10-C28	1080	10.0	03/28/2014	ND	200	99.9	200	3.28	
Surrogate: 1-Chlorooctane	118 9	65.2-14	0		,,				
Surrogate: 1-Chlorooctadecane	1149	63.6-15	4						

#### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine



BBC International, Inc.

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

Fax To:

(575) 397-0397

Received:

03/26/2014

Reported: Project Name: 04/01/2014

Project Number:

TYKE FEDERAL #1
NONE GIVEN

Project Location:

LEA COUNTY, NM

Sampling Date:

03/25/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SP 1 @ 3' (H400894-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2014	ND	2.48	124	2.00	12.9	
Toluene*	<0.050	0.050	04/01/2014	ND	2.36	118	2.00	12.8	
Ethylbenzene*	0.692	0.050	04/01/2014	ND	2.32	116	2.00	13.3	
Total Xylenes*	1.95	0.150	04/01/2014	ND	6.70	112	6.00	12.8	
Total BTEX	2.64	0.300	04/01/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	159 %	% 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	112	16.0	03/31/2014	ND	416	104	400	0.00	
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	67.1	10.0	03/28/2014	ND	208	104	200	4.06	
DRO >C10-C28	884	10.0	03/28/2014	ND	200	99.9	200	3.28	
Surrogate: 1-Chlorooctane	125 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	123 9	63.6-15	4						

#### 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:

03/26/2014

Sampling Date:

03/25/2014

Reported:

04/01/2014

Sampling Type:

Soil

Project Name:

TYKE FEDERAL #1 NONE GIVEN

Sampling Condition:

Cool & Intact

Project Number: Project Location:

Sample Received By:

Jodi Henson

LEA COUNTY, NM

#### Sample ID: SP 1 @ 5' (H400894-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2014	ND	2.48	124	2.00	12.9	
Toluene*	<0.050	0.050	04/01/2014	ND	2.36	118	2.00	12.8	
Ethylbenzene*	<0.050	0.050	04/01/2014	ND	2.32	116	2.00	13.3	
Total Xylenes*	<0.150	0.150	04/01/2014	ND	6.70	112	6.00	12.8	
Total BTEX	<0.300	0.300	04/01/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	115 %	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	1170	16.0	03/31/2014	ND	416	104	400	0.00	
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	03/28/2014	ND	208	104	200	4.06	
DRO >C10-C28	139	10.0	03/28/2014	ND	200	99.9	200	3.28	
Surrogate: 1-Chlorooctane	99.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	112 %	63.6-15	4						

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Fax To: (575) 397-0397

Received:

03/26/2014

Sampling Date:

03/25/2014

Reported:

04/01/2014

Sampling Type:

Soil

Project Name:

TYKE FEDERAL #1
NONE GIVEN

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

Project Number:

LEA COUNTY, NM

Project Location: LEA

#### Sample ID: SP 1 @ 7' (H400894-05)

BTEX 8021B	mg/	kg	Analyzed By: MS						S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.050	0.050	04/01/2014	ND	2.48	124	2.00	12.9			
Toluene*	0.097	0.050	04/01/2014	ND	2.36	118	2.00	12.8			
Ethylbenzene*	0.617	0.050	04/01/2014	ND	2.32	116	2.00	13.3			
Total Xylenes*	1.65	0.150	04/01/2014 ND		6.70	112	6.00	12.8			
Total BTEX	2.36	0.300	04/01/2014	ND							
Surrogate: 4-Bromofluorobenzene (PIL	139 %	% 89.4-12	6								
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP			<del></del> .				
Analyte	Résult	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	1520	16.0	03/31/2014	ND	416	104	400	0.00			
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	40.0	10.0	03/28/2014	ND	208	104	200	4.06			
DRO >C10-C28	622	10.0	03/28/2014	ND	200	99.9	200	3.28			
Surrogate: 1-Chlorooctane	106 %	65.2-14	10								
Surrogate: 1-Chlorooctadecane	109 9	63.6-15	4								

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Received: Reported:

03/26/2014

04/01/2014

Project Name: Project Number: TYKE FEDERAL #1

Project Location:

NONE GIVEN
LEA COUNTY, NM

106 %

63.6-154

Sampling Date:

Sampling Type:

03/25/2014 Soil

Ş

Cool & Intact

Sampling Condition: Sample Received By:

Jodi Henson

Sample ID: SP 1 @ 9' (H400894-06)

BTEX 8021B	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2014	ND	2.48	124	2.00	12.9	
Toluene*	<0.050	0.050	04/01/2014	ND	2.36	118	2.00	12.8	
Ethylbenzene*	<0.050	0.050	04/01/2014	014 ND		116	2.00	13.3	
Total Xylenes*	<0.150	0.150	04/01/2014	ND	6.70	112	6.00	12.8	
Total BTEX	<0.300	0.300	04/01/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112	% 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	1710	16.0	03/31/2014	ND	416	104	400	0.00	
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	03/28/2014	ND	208	104	200	4.06	
DRO >C10-C28	135	10.0	03/28/2014	ND	200	99.9	200	3.28	
Surrogate: 1-Chlorooctane	95.2	% 65.2-14	0						

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Surrogate: 1-Chlorooctadecane

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Received:

03/26/2014

Sampling Date:

03/25/2014

Reported:

04/01/2014

Soil

Sampling Type:

Cool & Intact

Project Name: Project Number: TYKE FEDERAL #1 NONE GIVEN

Sampling Condition: Sample Received By:

Jodi Henson

Project Location:

LEA COUNTY, NM

### Sample ID: SP 1 @ 11' (H400894-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2014	ND	2.48	124	2,00	12.9	
Toluene*	<0.050	0.050	04/01/2014	ND	2.36	118	2.00	12.8	
Ethylbenzene*	<0.050	0.050	04/01/2014	ND	2.32	116	2.00	13.3	
Total Xylenes*	<0.150	0.150	04/01/2014	ND	6.70	112	6.00	12.8	
Total BTEX	<0.300	0.300	04/01/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112 9	% 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	03/31/2014	ND	416	104	400	0.00	
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	03/28/2014	ND	208	104	200	4.06	
DRO >C10-C28	<10.0	10.0	03/28/2014	ND	200	99.9	200	3.28	
Surrogate: 1-Chlorooctane	93.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	99.1	% 63.6-15	4						

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Received: Reported: 03/26/2014

04/01/2014

Project Name: Project Number: TYKE FEDERAL #1 NONE GIVEN

Project Location:

LEA COUNTY, NM

Sampling Date:

03/25/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: SP 2 @ 1' (H400894-08)

BTEX 8021B	mg,	/kg	Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<1.00	1.00	04/01/2014	ND	2.48	124	2.00	12.9		
Toluene*	9.57	1.00	04/01/2014	ND	2.36	118	2.00	12.8		
Ethylbenzene*	24.6	1.00	04/01/2014	/01/2014 ND		116	2.00	13.3		
Total Xylenes*	70.2	3.00	04/01/2014	ND	6.70	112	6.00	12.8		
Total BTEX	104	6.00	04/01/2014	ND						
Surrogate: 4-Bromofluorobenzene (PIE	146	% 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	48.0	16.0	03/31/2014	ND	416	104	400	0.00		
TPH 8015M	mg,	/kg	Analyze	d By: ms					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	1210	50.0	03/28/2014	ND	208	104	200	4.06		
DRO >C10-C28	4820	50.0	03/28/2014	ND	200	99.9	200	3.28		
Surrogate: 1-Chlorooctane	158	% 65.2-14	0							
Surrogate: 1-Chlorooctadecane	157	% 63.6-15	4							

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Received:

03/26/2014

04/01/2014

Reported: Project Name:

TYKE FEDERAL #1

Project Number:

NONE GIVEN

Project Location:

LEA COUNTY, NM

Sampling Date:

03/25/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: SP 2 @ 2' (H400894-09)

BTEX 8021B	mg/	kg	Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2014	ND	2.48	124	2.00	12.9	
Toluene*	<0.050	0.050	04/01/2014	ND	2.36	118	2.00	12.8	
Ethylbenzene*	0.347	0.050	04/01/2014	ND	2.32	116	2.00	13.3	
Total Xylenes*	0.908	0.150	04/01/2014	ND	6.70	112	6.00	12.8	
Total BTEX	1.26	0.300	04/01/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	176 9	% 89.4-12	6			•			
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/31/2014	ND	416	104	400	0.00	
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	60.2	10.0	03/28/2014	ND	208	104	200	4.06	
DRO >C10-C28	855	10.0	03/28/2014	ND	200	99.9	200	3.28	
Surrogate: 1-Chlorooctane	116 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	112 9	63.6-15	4						

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Hobbs NM, 88241

Fax To:

(575) 397-0397

Received:

03/26/2014

Reported:

04/01/2014

Project Name: Project Number: TYKE FEDERAL #1
NONE GIVEN

Project Location:

LEA COUNTY, NM

Sampling Date:

03/25/2014

Sampling Type:

Soil

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

Jo

Sample ID: SP 2 @ 3' (H400894-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS			<u> </u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2014	ND	2.48	124	2.00	12.9	
Toluene*	<0.050	0.050	04/01/2014	ND	2.36	118	2.00	12.8	
Ethylbenzene*	<0.050	0.050	04/01/2014	ND	2.32	116	2.00	13.3	
Total Xylenes*	<0.150	0.150	04/01/2014 ND		6.70	112	6.00	12.8	
Total BTEX	<0.300	0.300	04/01/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	122 5	% 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	48.0	16.0	03/31/2014	ND	416	104	400	0.00	
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	03/28/2014	ND	208	104	200	4.06	
DRO >C10-C28	298	10.0	03/28/2014	ND	200	99.9	200	3.28	
Surrogate: 1-Chlorooctane	101 9	% 65,2-14	0						
Surrogate: 1-Chlorooctadecane	107 9	% 63.6-15	4						

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Received:

03/26/2014

Reported:

04/01/2014

Project Name: Project Number: TYKE FEDERAL #1 NONE GIVEN

Project Location:

LEA COUNTY, NM

Sampling Date:

03/25/2014

Soil

Sampling Type: Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

## Sample ID: SP 2 @ 5' (H400894-11)

BTEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2014	ND	2,48	124	2.00	12.9	
Toluene*	<0.050	0.050	04/01/2014	ND	2.36	118	2.00	12.8	
Ethylbenzene*	<0.050	0.050	04/01/2014	ND	2.32	116	2.00	13.3	
Total Xylenes*	<0.150	0.150	04/01/2014	ND	6.70	112	6.00	12.8	
Total BTEX	<0.300	0.300	04/01/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	114 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					. <u></u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/28/2014	ND	416	104	400	0.00	
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		03/28/2014	ND	208	104	200	4.06	
DRO >C10-C28	21.5	10.0	03/28/2014	ND	200	99.9	200	3.28	
Surrogate: 1-Chlorooctane	86.3	% 65.2-14	0					***	
Surrogate: 1-Chlorooctadecane	93.2 9	% 63.6-15	4						

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Received: Reported: 03/26/2014

04/01/2014

Project Name: Project Number: TYKE FEDERAL #1 NONE GIVEN

Project Location:

LEA COUNTY, NM

Sampling Date:

Sampling Type:

03/25/2014 Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: SP 2 @ 7' (H400894-12)

BTEX 8021B	mg/l	(g	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2014	ND	2.48	124	2.00	12.9	
Toluene*	<0.050	0.050	04/01/2014	ND	2.36	118	2.00	12.8	
Ethylbenzene*	<0.050	0.050	04/01/2014	ND	2.32	116	2.00	13.3	
Total Xylenes*	<0.150	0.150	04/01/2014	ND	6.70	112	6.00	12.8	
Total BTEX	<0.300	0.300	04/01/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 %	89.4-12	6						
Chloride, SM4500CI-B	mg/l	(g	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/28/2014	ND	416	104	400	0.00	
TPH 8015M	mg/l	(g	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	03/28/2014	ND	208	104	200	4.06	
DRO >C10-C28	<10.0	10.0	03/28/2014	ND	200	99.9	200	3.28	
Surrogate: 1-Chlorooctane	92.4 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	95.6%	63.6-15	4						

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#### **Notes and Definitions**

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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

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## RDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

SP1 @ 9'

SP1 @ 11'

SP2 @ 1'

SP2 @ 2'

SP2 @ 3'

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(505) 393-2326 FAX (505) 393-2476 Company Name: BBC International, Inc. BILL 76 **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:** City: Project Name: Tyke Federal #1 State: Zip: Project Location: Lea County, NM Phone #: Gary Ray Sampler Name: Fax #: MATRIX PRESERV SAMPLING FOR LAB USE ONLY O C (G)RAB OR (C)OMP WASTEWATER OIL
SLUDGE
OTHER:
ACID/BASE:
ICE/COOL
OTHER: Sample I.D. Lab I.D. SOL 4400894 DATE TIME SP1 @ 1' 3/25/14 11:00 AM SP1 @ 2' 3/25/14 11:20 AM <u>6</u>6 SP1 @ 3' 3/25/14 11:40 AM SP1 @ 5' 3/25/14 12:25 PM 6666 SP1 @ 7' 3/25/14 12:47 PM

3/25/14

3/25/14

3/25/14

3/25/14

3/25/14

1:20 PM

1:45 PM

2:15 PM

2:30 PM

2:45 PM

PLEASE NOTE: Liability and Damages. Cardinar's lability 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

amates or successors ansing out of related to the performance			ased upon any of the above stated re	asons or otherwise.			
Relinquished By	Date:	Received By:		Phone Result:	☐ Yes	□ No	Add'l Phone #:
	7-26-14	Mari Ma		Fax Result:	☐ Yes	□ No	Add'l Fax #:
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	Time:						
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Delivered By: (Circle One)		Sample Condition	n CHECKED BY:				•
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Sampler - UPS - Bus - Other:	11	OC Pres Pres	( <del>  </del>				
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			71				



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

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

Company Name: BBC International, Inc.						CAN BILL TO WAS								 ANAI	YSIS	S RE	QUE	ST				
Project Manage	r: Cliff Brunson						Ρ.	0. #	:													
Address: P.O.	. Box 805						Co	mp	any:													
city: Hobbs	State: NM	Zi	p: {	3824	1		At	tn:												!		
Phone #: 575-	397-6388 Fax #: 57	5-39	7-0	397			Ad	ldre	ss:			]	l									
Project #:	Project Own	er:					Cit	ty:								,						
Project Name:	Tyke Federal #1						St	ate:		Zip:		1	1									
Project Location	n: Lea County, NM						Ph	one	#:			1										
Sampler Name:							Fa	x #:														
FOR LAB USE ONLY			Π		MAT	RIX	-,	PRI	SER	SAMPL	ING .	]	1									
Lab I.D. <u>{{ЧОО<del>Ч</del></u>	Sample I.D.	O (G)RAB OR (C)OMP.	A N	GROUNDWATER	SOIL	OIL	OTHER: .	ACID/BASE:	ICE / COOL	DATE	TIME	((	797	BT及								
	SP2 @ 5'	G	11		1				1	3/25/14	3:15 PM	1	1	✓								
12	SP2 @ 7'	<u> </u>	1		$ \underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{$		1_		<u> </u>	3/25/14	3:38 PM	✓	1	✓	 							
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	3/25/14																					
		_ _	-	<b>  -</b>	-	_	-		_ _	- <b> </b>	ļ				 							
	nd Damages, Cardinal's liability and client's exclusive remedy fi														L	L						
analyses. All claims include service. In no event shall C	ng those for negligence and any other cause whatsoever shall ardinal be liable for incidental or consequental damages, include	e deem	ed walv ud Emili	ed unless ation, bus	made in iness inte	writing ar	nd rece . loss o	ived by fuse, t	Cardina or loss of	within 30 days aft profits incurred by	er completion of ti client, its subsidia	he applica ries,	ble									
affiliates or successors arisi Relinquished By	ng out of or related to the performance of services hereunder by:    Date:   Jab M			ved B		I	le			the above stated in	Phone Re Fax Resul REMARKS	sult: lt:	□ Ye □ Ye		Add'i I		#:					
Relinquished B	y: Date:	17	cei	ved B	y:					,	1											l

CHECKED BY:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

<sup>†</sup> 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 Form C-141 Revised October 10, 2003 bmit 2 Copies to appropriate

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

## Release Notification and Corrective Action

						OPERA:	TOR		Initi	al Report		Final R	leport
Name of Co		Chesapeake				Contact E	Bradley Blevins						
		0, Hobbs, N	M 88241			Telephone 1	No. (575) 391	-1462					
Facility Nar	ne Tyke	Federal #1				Facility Typ	e Well location	on	_				
Surface Ow	ner BLM		<del>-</del>	Mineral O	wner				API No	. 30-025-3	1041		
				LOCA	TIO	N OF REI	EASE						
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	Fast/V	West Line	County			
			-		11014					_			
L	17	18S	32E	1650		South	660	1	West	Lea Coun	ty, NM		
			l	Latitude N 32.74	<u>4477°</u>	Longitud	de <u>W 103.79520</u>	<u>)°</u>					
				NAT	URE	OF REL							
Type of Rele		ıd produced v				Volume of and 2 bbls	Release 12 bbl produced water	s oil		Recovered	8 bbls		
Source of Re		e in the circul	ating line			02/20/2014	Iour of Occurrence  0 10:00 am	е	Date and	Hour of Dis	covery		
Was Immedia	ite Notice C		Yes [	No 🔲 Not Re	quired	If YES, To Geoffrey L	Whom? eking- NMOCD,	James	Amos- BL	M			
By Whom?	Cliff Brunsc	n. BBC Interi	national			Date and H	Iour 02/21/2014 (	@ 3:18	nm				
Was a Water		hed?	Yes 🏻	l No			lume Impacting th						
If a Watercou													
Describe Cau A hole in the circulating lin	circulating	line caused 12	bbls of o	n Taken.* il and 2 bbls of pro	oduced	l water to leak	onto the ground.	A vacu	um truck r	ecovered 8 b	bls of	oil and th	e
	ited was app	proximately 1	10' x 35'	en.* in the northwest conce with a remedia						utside of the	firewa	ll and fen	ice
regulations al public health should their o	l operators a or the envir perations ha ment. In ac	are required to onment. The ave failed to a ddition, NMO	report an acceptanc dequately CD accep	is true and comple d/or file certain re e of a C-141 report investigate and re tance of a C-141 r	lease n n by th mediat	otifications ar e NMOCD ma e contamination	nd perform correct arked as "Final Re on that pose a thre e the operator of re	tive acti eport" deat to greesponsi	ions for relioes not reliound water bility for co	eases which leve the oper surface wat ompliance water	may entator of ter, hu	ndanger Hability man heal	th
		· ·					OIL CONS	SERV	ATION	DIVISIO	N		
Signature:	<u> Saadle</u>	4 Blevin					m						
Printed Name	: Bradley	Blevins				Approved by District Supervisor:							
Title: EHS	Specialist					Approval Date	e:		Expiration	Date:			
E-mail Addre	ss: Bradie	ey.blevins@cl	hk.com			Conditions of	Approval:			Attached			
Date: 2/	27/14	ts If Necessa		ne: (575) 391-1462									