# **Closure Report**

Site Description					
Site Name:	Cypress 34 Federal #1 CTB				
Company:	Oxy Permian Ltd.				
Legal Description:	U/L P, Section 34, T23S, R29E				
County:	Eddy County, NM				
GPS Coordinates:	N 32.25496° W 103.96596°				

Release Data						
Date of Release:	12/21/2013					
Type of Release:	Oil					
Source of Release:	Valve failed on 3 phase separator causing tanks to spill					
Volume of Release:	90 bbls					
Volume Recovered:	80 bbls					

Remediation Specifications						
Remediation Parameters:	Excavate to a depth of 3 feet around SP1. Excavate to a depth of 1 foot in the areas of SP2, SP3, and SP6. Build a small berm around the area of SP6. Excavate the area around SP5 to a depth of 2 feet. Obtain bottom confirmation samples. Backfill the site with clean soil.					
Remediation Activities:	10/24/2014 to 11/21/2014					

Plan Sent to OCD:	04/01/2014	Meeting between Brunson and Bratcher
OCD Approval of Plan:	04/01/2014	Meeting between Brunson and Bratcher
Plan Sent to BLM:	04/01/2014	Email from Cliff Brunson to J. Van Curen
BLM Approval of Plan:	04/22/2014	Email from J. Van Curen to Cliff Brunson

Supporting Documentation					
Initial C-141	Signed 01/08/2014				
Final C-141	Signed 12/09/2014				
Site Diagram	January 2014				
Groundwater Plot	75'-100'				
TOPO Maps	January 2014				
Lab Summary	02/17/2014-02/19/2014 and 11/13/2014				
Lab Analysis	02/17/2014-02/19/2014 and 11/13/2014				
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. 12/12/2014

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., 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

Form C-141 Revised August 8, 2011

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

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Attached

THE SECOND STREET, SHIPPING STREET, ST	Washington College			U (	airta i	C, INIVI 075	003				
	Release Notification and Corrective Action										
						OPERA'	ГOR		al Report	Final Repor	
Name of Co		Oxy Permia				Contact (	Chancey Summe	ers		•	
Address	1017 W. S	tanolind Rd,	Hobbs,	VM 88240		Telephone 1	No. (575) 397	7-8216			
Facility Na	те Сурі	ress 34 Fede	ral #1CT	В		Facility Type Gathering					
Surface Ow	ner BLI	М		Mineral C	Owner	W		API No	. 30-015-35	053 (nearest well)	
				LOCA	ATIC	TION OF RELEASE					
Unit Letter	Section	Township	Range	Feet from the		h/South Line	Feet from the	East/West Line	County		
P	34	23S	29E	460		South	660	East	Eddy		
				Latitude N 32.2	54069	A CONTRACT MARKET	de W 103.9659		Ludy		
				St				<u>o</u> _			
T CD 1	0.1			NAT	URE	OF REL					
Type of Rele			I C-!1-1	2 1		Volume of		HOA STOREST WITHOUT A	Delta Sont Control State Control	80 bbls	
Source of Release Kimray dump valve failed on 3 phase separator causing tanks to spill over					12/21/2013	lour of Occurrenc	Date and	Hour of Dis	covery		
Was Immediate Notice Given? ☐ Yes ☐ Not Required ☐ If YES, To Whom											
By Whom?			Y es 🗵	No L Not Re	equired			ne 1410			
Was a Water	course Reac	hed?				Date and H	our lume Impacting t	1. a W			
Was a Water	ourse reac		Yes 🛛	No		II 1 ES, VO	iume impacting t	ne watercourse.			
If a Watercou	irse was Im	pacted, Descri	be Fully.*								
Describe Cau	se of Proble	em and Remed	dial Action	Taken.*							
The failure of	a Kimray c	lump valve on	a 3 phase	separator caused	the tar	nks to spill 90 b	obls of oil onto th	e ground. 80 bbls	of oil were r	ecovered via	
vacuum truck	and the val	ve was repaire	ed or repla	iced.							
Describe Area	Affected a	nd Cleanup A	ction Tak	en.*							
The effected	!	······································				'11 I					
the BLM.	irea is appro	oximately 30	x 90 on 1	ocation. Remedia	ation w	ill be complete	ed in accordance v	with a remediation	plan approv	ed by NMOCD and	
I hereby certif	y that the ir	nformation give	ven above	is true and compl	ete to t	the best of my l	cnowledge and ur	nderstand that pursi	ant to NMC	OCD rules and	
regulations al	operators a	are required to	report an	d/or file certain re	elease r	otifications an	d perform correct	tive actions for rele	ases which i	may endanger	
public health	or the envir	onment. The	acceptance	e of a C-141 repor	rt by th	e NMOCD ma	rked as "Final Re	eport" does not relie	eve the opera	ator of liability	
should their o	perations ha	ive failed to a	dequately	investigate and re	media	te contaminatio	on that pose a thre	eat to ground water,	surface wat	er, human health	
federal, state,	ment. un ac	idition, NMQ s and/or regul	CD accept	ance of a C-141 r	eport c	loes not relieve	the operator of re	esponsibility for co	mpliance w	ith any other	
rederal, state,	or rocar raw	3 and/or regul	ations	\			OIL CONS	SERVATION	DIVISIO	N	
(-				)			OIL CONS	DERVATION.	0101010	<u>IN</u>	
Signature:											
Printed Name	Chancey	Summers				Approved by I	Environmental Sp	ecialist:			
	•										
Title: HES	Specialist				-	Approval Date	:	Expiration D	ate:		
E-mail Addres	ss: Chanc	ey.Summers@	oxy.com			Conditions of	Approval:		A 1 1		

Phone:

(575) 397-8216

<sup>\*</sup> Attach Additional Sheets If Necessary

District I 1625 N. French Dr., Hobbs, NM 88240 District II Silt S. First St., 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

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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

Form C-141

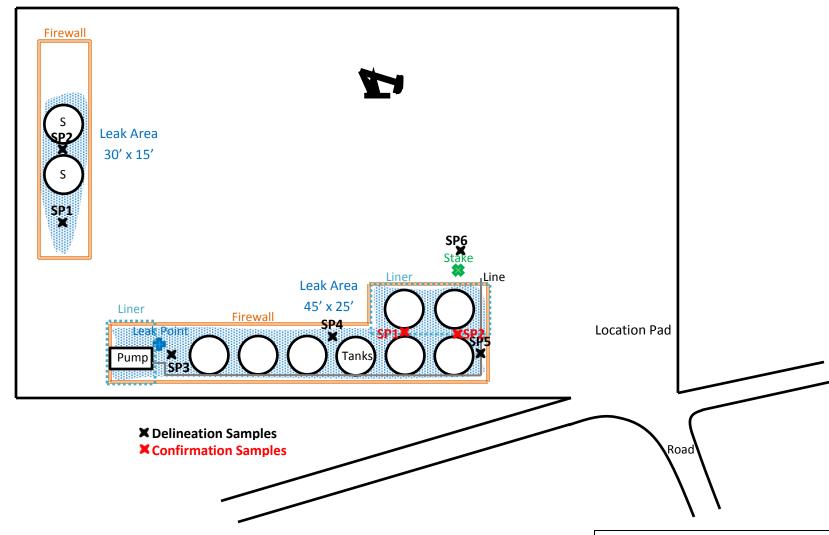
Revised August 8, 2011

			Rel	ease Notific	catio	n and Co	orrective A	ction		<del>,,</del>		
						<b>OPERA</b>	ГOR	.	Initi	al Report	$\boxtimes$	Final Repor
Name of Co		Oxy Permia					Chancey Summe					
		tanolind Rd,				Telephone N	<del></del>	-8216		· · · ·		
Facility Nar	ne Cypi	ress 34 Fede	rai#ICI	В		Facility Typ	e Gathering					
Surface Ow	ner BLN	M		Mineral (	Owner			API No	. 30-015 <b>-</b> 35	053 (r	nearest well)	
				LOCA	ATIO	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North	/South Line	Feet from the	East/W	est Line	County		<del></del>
P	34	238	29E	460		South	660	E	ast	Eddy		
			]	Latitude <u>N 32.2</u>	25496°	Longitue	de <u>W 103.9659</u>	<u>6°</u>				
				NAT	URE	OF RELI	EASE					
Type of Relea						Volume of		s	Volume F	Recovered	80 bb	ols
Source of Release Kimray dump valve failed on 3 phase separator causing tanks to spill over Was Immediate Notice Given?					tor	Date and H 12/21/2013	our of Occurrenc			Hour of Dis		
		iven?	Yes 🛛	No 🔲 Not Re		If YES, To			-			
By Whom?			103 2		equired	Date and H	our	<del></del>				
Was a Watercourse Reached?  If YES, Volume Impacting the Watercourse.						·						
			Yes 🛚	No								
If a Watercou	rse was Imp	oacted, Descri	be Fully.*									
Describe Caus	se of Proble	em and Remed	lial Action	Taken.*	***							
The failure of vacuum truck	a Kimray d and the val	lump valve on ve was repaire	ı a 3 phase ed or repla	separator caused	the tan	ks to spill 90 b	obls of oil onto the	e ground.	80 bbls	of oil were r	ecover	red via
Describe Area	Affected a	nd Cleanup A	etion Tak	en.*								,
The affected a	rea is appro	eximately 30'	x 90' on 1	ocation. Remedia	ation wa	is completed in	n accordance with	the rem	ediation p	lan approve	d by M	Aike Bratcher
of the NMOC	D on 04/01/	/2014 and app	roved by .	Jennifer Van Cure	en of the	e BLM via em	ail on 4/22/2014.		1	Tr	,	
I hereby certif	y that the in	nformation giv	zen above	is true and compl	ete to th	ne best of my l	nowledge and ur	nderstand	that pursi	ant to NMO	OCD r	ules and
regulations all	operators a	ire required to	report an	d/or file certain re	elease no	otifications and	d perform correct	ive action	is for rele	ases which	mav er	ndanger
should their or	or the environerations ha	onment. The a	acceptance dequately	ot a C-141 report	rt by the	NMOCD ma	rked as "Final Re in that pose a thre	port" doe	es not relie	eve the oper	ator of	liability
or the environ	ment. In ad	ldition, NMO	CD accept	ance of a C-141 r	eport de	oes not relieve	the operator of re	at to grot esponsibi	ma water, lity for co	surrace wa mpliance w	ier, nui ith anv	man neaith v other
federal, state, o	or local law	s and/or regul	lations.									
(							OIL CONS	ERVA	TION I	<u>DIVISIO</u>	N	I
Signature:	The same of the sa											
Printed Name: Chancey Summers						Approved by Environmental Specialist:						
Title: HES S	Specialist				A	Approval Date	:	Ex	piration D	ate:		
E-mail Addres	s: Chanc	ey.Summers@	loxv.com		(	Conditions of A	Approval:	<b>-</b>				
						Somethous of I	rpprovai.			Attached		,
Date: /2-	7-17	on If Non	Phone:	(575) 397-8216	5							



# Оху

### Cypress 34 Federal #1 CTB



U/L P, Section 34, T23S, R29E

**Eddy County, NM** 

GPS at stake: N 32.25496° W 103.96596°

API# 30-015-35053 (nearest well)

### **BBC International, Inc.**

### Оху

Cypress 34 Federal #1 CTB

Date: 01/06/2014	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2013



## **Groundwater Plot**

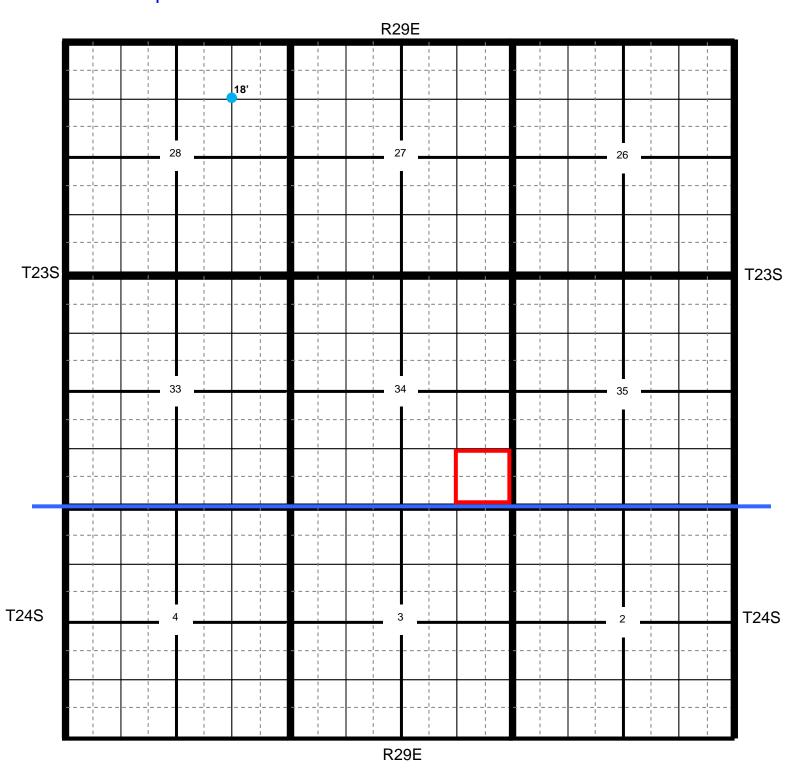
## Oxy Cypress 34 Federal #1 CTB

CountyUnit LetterSectionTownshipRangeEddy CountyP3423S29E

Trend Map 75'-100'

Location

OCD



USGS

SEO

All Databases

## Oxy Cypress 34 Federal #1 CTB

CountyUnit LetterSectionTownshipRangeEddyP3423S29E

Trend Map 75'-100'

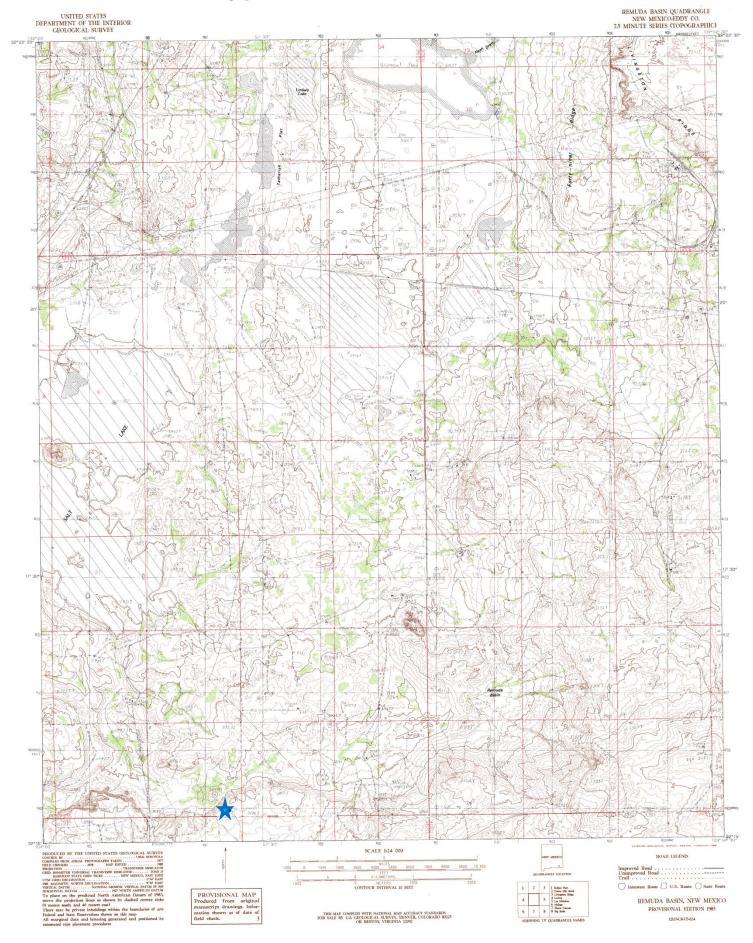
1

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

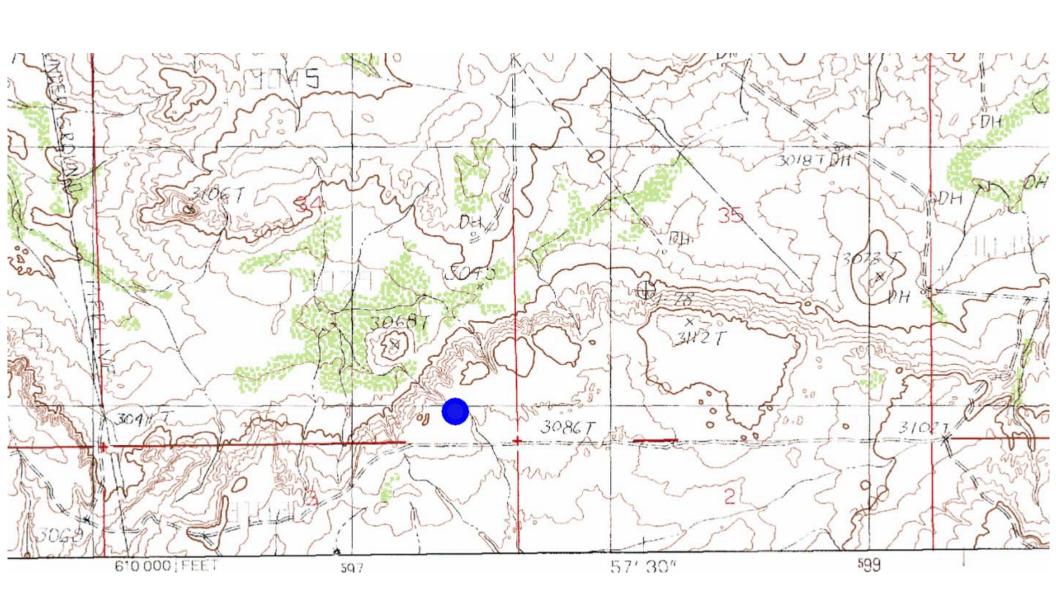
3

# Oxy

# **Cypress 34 Federal #1 CTB**



Oxy
Cypress 34 Federal #1 CTB



### Laboratory Analytical Results Summary Cypress 34 Federal #1 CTB

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 4'
		Janiple	51 1 @ 1	5	5
Analyte	Method	Date	2/17/14	2/17/14	2/17/14
, The state of the			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.500	< 0.050	< 0.050
Toluene	BTEX 8021B		8.96	< 0.050	< 0.050
Ethylbenzene	BTEX 8021B		8.36	0.123	< 0.050
Total Xylenes	BTEX 8021B		50.4	0.804	<0.150
Total BTEX	BTEX 8021B		67.7	0.926	< 0.300
Chloride	SM4500CI-B		16	16	16
GRO	TPH 8015M		3140	35.7	<10.0
DRO	TPH 8015M		16000	2250	52.8

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 5'
Analyte	Method	Date	2/17/14	2/17/14	2/17/14
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050	< 0.050
Toluene	BTEX 8021B		< 0.050	< 0.050	< 0.050
Ethylbenzene	BTEX 8021B		< 0.050	< 0.050	< 0.050
Total Xylenes	BTEX 8021B		<0.150	< 0.150	<0.150
Total BTEX	BTEX 8021B		< 0.300	< 0.300	< 0.300
Chloride	SM4500CI-B		544	912	112
GRO	TPH 8015M		13.4	<10.0	<10.0
DRO	TPH 8015M		705	21.5	<10.0

		Sample	SP3 @ 1'	SP3 @ 3'	SP3 @ 5'	SP3 @ 6'
Analyte	Method	Date	2/18/14	2/18/14	2/18/14	2/18/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050
Toluene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050
Ethylbenzene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	0.197
Total BTEX	BTEX 8021B		< 0.300	< 0.300	< 0.300	< 0.300
Chloride	SM4500CI-B		1310	832	416	64
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		203	68.1	169	687

### Laboratory Analytical Results Summary Cypress 34 Federal #1 CTB

		Sample	SP4 @ 1'	SP4 @ 3'	SP4 @ 5'	SP4 @ 6'
Analyte	Method	Date	2/18/14	2/18/14	2/18/14	2/18/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.200	< 0.050	< 0.050	< 0.050
Toluene	BTEX 8021B		0.620	< 0.050	< 0.050	< 0.050
Ethylbenzene	BTEX 8021B		0.631	< 0.050	< 0.050	< 0.050
Total Xylenes	BTEX 8021B		5.74	< 0.150	<0.150	0.185
Total BTEX	BTEX 8021B		6.99	< 0.300	< 0.300	< 0.300
Chloride	SM4500CI-B		1260	672	368	16
GRO	TPH 8015M		486	<10.0	<10.0	<10.0
DRO	TPH 8015M		3620	149	464	524

		Sample	SP5 @ 1'	SP5 @ 3'	SP5 @ 5'	SP5 @ 6'
Analyte	Method	Date	2/18/14	2/18/14	2/18/14	2/18/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.100	< 0.050	< 0.050	< 0.050
Toluene	BTEX 8021B		<0.100	< 0.050	< 0.050	< 0.050
Ethylbenzene	BTEX 8021B		<0.100	< 0.050	< 0.050	< 0.050
Total Xylenes	BTEX 8021B		0.400	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		< 0.600	< 0.300	< 0.300	< 0.300
Chloride	SM4500CI-B		1550	688	336	32
GRO	TPH 8015M		23.1	<10.0	<10.0	<10.0
DRO	TPH 8015M		427	180	333	559

		Sample	SP6 @ 1'	SP6 @ 3'	SP6 @ 4'
Analyte	Method	Date	2/19/14	2/19/14	2/19/14
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050	< 0.050
Toluene	BTEX 8021B		< 0.050	< 0.050	< 0.050
Ethylbenzene	BTEX 8021B		< 0.050	< 0.050	< 0.050
Total Xylenes	BTEX 8021B		<0.150	< 0.150	< 0.150
Total BTEX	BTEX 8021B		< 0.300	< 0.300	< 0.300
Chloride	SM4500CI-B		3600	272	32
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	369

### Laboratory Analytical Results Summary Cypress 34 Federal #1 CTB

		Sample	SIDEWALL #1	SIDEWALL #2
Analyte	Method	Date	11/13/14	11/13/14
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050
Toluene	BTEX 8021B		< 0.050	< 0.050
Ethylbenzene	BTEX 8021B		< 0.050	< 0.050
Total Xylenes	BTEX 8021B		<0.150	< 0.150
Total BTEX	BTEX 8021B		< 0.300	< 0.300
Chloride	SM4500CI-B		48	48
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0



February 28, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CYPRESS 34 FEDERAL #1 CTB

Enclosed are the results of analyses for samples received by the laboratory on 02/20/14 16:45.

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.

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: 02/20/2014 Sampling Date: 02/17/2014

Reported: 02/28/2014 Sampling Type: Soil

Project Name: CYPRESS 34 FEDERAL #1 CTB Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: SOUTH 128

### Sample ID: SP 1 @ 1' (H400524-01)

BTEX 8260B	mg,	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	02/28/2014	ND	1.92	95.8	2.00	2.11	
Toluene*	8.96	0.500	02/28/2014	ND	1.99	99.5	2.00	1.91	
Ethylbenzene*	8.36	0.500	02/28/2014	ND	1.86	93.0	2.00	2.50	
Total Xylenes*	50.4	1.50	02/28/2014	ND	5.63	93.8	6.00	2.40	
Total BTEX	67.7	3.00	02/28/2014	ND					
Surrogate: Dibromofluoromethane	99.7	% 61.3-14	2						
Surrogate: Toluene-d8	112 9	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	295	% 65.7-14	1						
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	02/27/2014	ND	400	100	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	3140	50.0	02/25/2014	ND	208	104	200	0.0943	
DRO >C10-C28	16000	50.0	02/25/2014	ND	209	104	200	3.92	
Surrogate: 1-Chlorooctane	189	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	438 9	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 02/20/2014 Sampling Date: 02/17/2014

Reported: Sampling Type: Soil 02/28/2014

Project Name: CYPRESS 34 FEDERAL #1 CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: SOUTH 128

### Sample ID: SP 1 @ 3' (H400524-02)

BTEX 8260B	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	02/28/2014	ND	1.92	95.8	2.00	2.11	
Toluene*	<0.050	0.050	02/28/2014	ND	1.99	99.5	2.00	1.91	
Ethylbenzene*	0.123	0.050	02/28/2014	ND	1.86	93.0	2.00	2.50	
Total Xylenes*	0.804	0.150	02/28/2014	ND	5.63	93.8	6.00	2.40	
Total BTEX	0.926	0.300	02/28/2014	ND					
Surrogate: Dibromofluoromethane	99.1	% 61.3-14	2						
Surrogate: Toluene-d8	98.5	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	145	% 65.7-14	1						
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	02/27/2014	ND	400	100	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	35.7	10.0	02/25/2014	ND	208	104	200	0.0943	
DRO >C10-C28	2250	10.0	02/25/2014	ND	209	104	200	3.92	
Surrogate: 1-Chlorooctane	80.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	130	% 63.6-15	4						

Surrogate: 1-Chlorooctadecane

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



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

Fax To: (575) 397-0397

Received: 02/20/2014 Sampling Date: 02/17/2014

Reported: 02/28/2014 Sampling Type: Soil

Project Name: CYPRESS 34 FEDERAL #1 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: SOUTH 128

### Sample ID: SP 1 @ 4' (H400524-03)

BTEX 8260B	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	02/27/2014	ND	1.92	95.8	2.00	2.11	
Toluene*	<0.050	0.050	02/27/2014	ND	1.99	99.5	2.00	1.91	
Ethylbenzene*	<0.050	0.050	02/27/2014	ND	1.86	93.0	2.00	2.50	
Total Xylenes*	<0.150	0.150	02/27/2014	ND	5.63	93.8	6.00	2.40	
Total BTEX	<0.300	0.300	02/27/2014	ND					
Surrogate: Dibromofluoromethane	96.8	% 61.3-14	2						
Surrogate: Toluene-d8	101	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	105	% 65.7-14	1						
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	02/27/2014	ND	400	100	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	02/25/2014	ND	208	104	200	0.0943	
DRO >C10-C28	52.8	10.0	02/25/2014	ND	209	104	200	3.92	
Surrogate: 1-Chlorooctane	90.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	102	% 63.6-15	4						

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Received: 02/20/2014 Sampling Date: 02/17/2014

Reported: 02/28/2014 Sampling Type: Soil

Project Name: CYPRESS 34 FEDERAL #1 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: SOUTH 128

### Sample ID: SP 2 @ 1' (H400524-04)

BTEX 8260B	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	02/27/2014	ND	1.92	95.8	2.00	2.11	
Toluene*	<0.050	0.050	02/27/2014	ND	1.99	99.5	2.00	1.91	
Ethylbenzene*	<0.050	0.050	02/27/2014	ND	1.86	93.0	2.00	2.50	
Total Xylenes*	<0.150	0.150	02/27/2014	ND	5.63	93.8	6.00	2.40	
Total BTEX	<0.300	0.300	02/27/2014	ND					
Surrogate: Dibromofluoromethane	101	% 61.3-14	2						
Surrogate: Toluene-d8	101	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	112	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	02/27/2014	ND	400	100	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	13.4	10.0	02/25/2014	ND	208	104	200	0.0943	
DRO >C10-C28	705	10.0	02/25/2014	ND	209	104	200	3.92	
Surrogate: 1-Chlorooctane	76.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	93.4	% 63.6-15	4						

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Received: 02/20/2014 Sampling Date: 02/17/2014

Reported: 02/28/2014 Sampling Type: Soil

Project Name: CYPRESS 34 FEDERAL #1 CTB Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Analyzed By: MC

Project Location: SOUTH 128

ma/ka

### Sample ID: SP 2 @ 3' (H400524-05)

RTFY 8260R

B1EX 8260B	mg/	кg	Analyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2014	ND	1.92	95.8	2.00	2.11	
Toluene*	<0.050	0.050	02/27/2014	ND	1.99	99.5	2.00	1.91	
Ethylbenzene*	<0.050	0.050	02/27/2014	ND	1.86	93.0	2.00	2.50	
Total Xylenes*	<0.150	0.150	02/27/2014	ND	5.63	93.8	6.00	2.40	
Total BTEX	<0.300	0.300	02/27/2014	ND					
Surrogate: Dibromofluoromethane	97.8	% 61.3-14	2						
Surrogate: Toluene-d8	102	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	102	% 65.7-14	1						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	02/27/2014	ND	400	100	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	02/25/2014	ND	208	104	200	0.0943	
DRO >C10-C28	21.5	10.0	02/25/2014	ND	209	104	200	3.92	
Surrogate: 1-Chlorooctane	76.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	82.6	% 63.6-15	4						

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Fax To: (575) 397-0397

Received: 02/20/2014 Sampling Date: 02/17/2014

Reported: 02/28/2014 Sampling Type: Soil

Project Name: CYPRESS 34 FEDERAL #1 CTB Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Analyzed By: MC

Project Location: SOUTH 128

ma/ka

### Sample ID: SP 2 @ 5' (H400524-06)

RTFY 8260R

B1EX 8260B	mg/	кg	Analyze	a By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2014	ND	1.92	95.8	2.00	2.11	
Toluene*	<0.050	0.050	02/27/2014	ND	1.99	99.5	2.00	1.91	
Ethylbenzene*	<0.050	0.050	02/27/2014	ND	1.86	93.0	2.00	2.50	
Total Xylenes*	<0.150	0.150	02/27/2014	ND	5.63	93.8	6.00	2.40	
Total BTEX	<0.300	0.300	02/27/2014	ND					
Surrogate: Dibromofluoromethane	95.6	% 61.3-14	2						
Surrogate: Toluene-d8	100	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	102	% 65.7-14	1						
Chloride, SM4500Cl-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	02/27/2014	ND	400	100	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	02/25/2014	ND	208	104	200	0.0943	
DRO >C10-C28	<10.0	10.0	02/25/2014	ND	209	104	200	3.92	
Surrogate: 1-Chlorooctane	74.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	77.0	% 63.6-15	4						

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Received: 02/20/2014 Sampling Date: 02/18/2014

Reported: 02/28/2014 Sampling Type: Soil

Project Name: CYPRESS 34 FEDERAL #1 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: SOUTH 128

### Sample ID: SP 3 @ 1' (H400524-07)

BTEX 8260B	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	02/27/2014	ND	1.92	95.8	2.00	2.11	
Toluene*	<0.050	0.050	02/27/2014	ND	1.99	99.5	2.00	1.91	
Ethylbenzene*	<0.050	0.050	02/27/2014	ND	1.86	93.0	2.00	2.50	
Total Xylenes*	<0.150	0.150	02/27/2014	ND	5.63	93.8	6.00	2.40	
Total BTEX	<0.300	0.300	02/27/2014	ND					
Surrogate: Dibromofluoromethane	96.1	% 61.3-14	2						
Surrogate: Toluene-d8	101	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	118	% 65.7-14	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1310	16.0	02/27/2014	ND	400	100	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	02/25/2014	ND	208	104	200	0.0943	
DRO >C10-C28	203	10.0	02/25/2014	ND	209	104	200	3.92	
Surrogate: 1-Chlorooctane	92.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	105	% 63.6-15	4						

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Received: 02/20/2014 Sampling Date: 02/18/2014

Reported: 02/28/2014 Sampling Type: Soil

Project Name: CYPRESS 34 FEDERAL #1 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: SOUTH 128

### Sample ID: SP 3 @ 3' (H400524-08)

BTEX 8260B	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	02/27/2014	ND	1.92	95.8	2.00	2.11	
Toluene*	<0.050	0.050	02/27/2014	ND	1.99	99.5	2.00	1.91	
Ethylbenzene*	<0.050	0.050	02/27/2014	ND	1.86	93.0	2.00	2.50	
Total Xylenes*	<0.150	0.150	02/27/2014	ND	5.63	93.8	6.00	2.40	
Total BTEX	<0.300	0.300	02/27/2014	ND					
Surrogate: Dibromofluoromethane	99.7	% 61.3-14	2						
Surrogate: Toluene-d8	101	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	101	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	02/27/2014	ND	400	100	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	02/25/2014	ND	208	104	200	0.0943	
DRO >C10-C28	68.1	10.0	02/25/2014	ND	209	104	200	3.92	
Surrogate: 1-Chlorooctane	94.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	101	% 63.6-15	4						

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Received: 02/20/2014 Sampling Date: 02/18/2014

Reported: 02/28/2014 Sampling Type: Soil

Project Name: CYPRESS 34 FEDERAL #1 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: SOUTH 128

### Sample ID: SP 3 @ 5' (H400524-09)

BTEX 8260B	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	02/27/2014	ND	1.92	95.8	2.00	2.11	
Toluene*	<0.050	0.050	02/27/2014	ND	1.99	99.5	2.00	1.91	
Ethylbenzene*	<0.050	0.050	02/27/2014	ND	1.86	93.0	2.00	2.50	
Total Xylenes*	<0.150	0.150	02/27/2014	ND	5.63	93.8	6.00	2.40	
Total BTEX	<0.300	0.300	02/27/2014	ND					
Surrogate: Dibromofluoromethane	96.6	% 61.3-14	2						
Surrogate: Toluene-d8	103	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	103	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	02/27/2014	ND	400	100	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	02/25/2014	ND	208	104	200	0.0943	
DRO >C10-C28	169	10.0	02/25/2014	ND	209	104	200	3.92	
Surrogate: 1-Chlorooctane	92.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	112	% 63.6-15	4						

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Received: 02/20/2014 Sampling Date: 02/18/2014

Reported: 02/28/2014 Sampling Type: Soil

Project Name: CYPRESS 34 FEDERAL #1 CTB Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Analyzed By: MS

Project Location: SOUTH 128

mg/kg

### Sample ID: SP 3 @ 6' (H400524-10)

BTEX 8260B

DIEX 0200D	nig,	, kg	Allulyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	02/27/2014	ND	1.92	95.8	2.00	2.11	
Toluene*	<0.050	0.050	02/27/2014	ND	1.99	99.5	2.00	1.91	
Ethylbenzene*	<0.050	0.050	02/27/2014	ND	1.86	93.0	2.00	2.50	
Total Xylenes*	0.197	0.150	02/27/2014	ND	5.63	93.8	6.00	2.40	
Total BTEX	<0.300	0.300	02/27/2014	ND					
Surrogate: Dibromofluoromethane	99.1	% 61.3-14	22						
Surrogate: Toluene-d8	98.6	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	101	% 65.7-14	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/27/2014	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/26/2014	ND	204	102	200	5.45	
DRO >C10-C28	687	10.0	02/26/2014	ND	199	99.7	200	2.11	
Surrogate: 1-Chlorooctane	91.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	144	% 63.6-15	4						

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Fax To: (575) 397-0397

Received: 02/20/2014 Sampling Date: 02/18/2014

Reported: 02/28/2014 Sampling Type: Soil

Project Name: CYPRESS 34 FEDERAL #1 CTB Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Analyzed By: MC

Project Location: SOUTH 128

ma/ka

### Sample ID: SP 4 @ 1' (H400524-11)

RTFY 8260R

B1EX 8260B	mg/kg		Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.200	0.200	02/27/2014	ND	1.95	97.7	2.00	2.03		
Toluene*	0.620	0.200	02/27/2014	ND	1.98	99.0	2.00	3.42		
Ethylbenzene*	0.631	0.200	02/27/2014	ND	1.85	92.7	2.00	3.29		
Total Xylenes*	5.74	0.600	02/27/2014	ND	5.60	93.4	6.00	2.69		
Total BTEX	6.99	1.20	02/27/2014	ND						
Surrogate: Dibromofluoromethane	96.7	% 61.3-14	2							
Surrogate: Toluene-d8	102 9	71.3-12	9							
Surrogate: 4-Bromofluorobenzene	153 %	65.7-14	1							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1260	16.0	02/27/2014	ND	400	100	400	0.00		
TPH 8015M	mg/	kg	Analyze	d By: ms					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	486	10.0	02/26/2014	ND	204	102	200	5.45		
DRO >C10-C28	3620	10.0	02/26/2014	ND	199	99.7	200	2.11		
Surrogate: 1-Chlorooctane	130 %	65.2-14	0							
Surrogate: 1-Chlorooctadecane	158 9	63.6-15	4							

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Celey D. Keene

S-04



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Fax To: (575) 397-0397

Received: 02/20/2014 Sampling Date: 02/18/2014

Reported: 02/28/2014 Sampling Type: Soil

Project Name: CYPRESS 34 FEDERAL #1 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: SOUTH 128

### Sample ID: SP 4 @ 3' (H400524-12)

BTEX 8260B	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	02/27/2014	ND	1.95	97.7	2.00	2.03	
Toluene*	<0.050	0.050	02/27/2014	ND	1.98	99.0	2.00	3.42	
Ethylbenzene*	<0.050	0.050	02/27/2014	ND	1.85	92.7	2.00	3.29	
Total Xylenes*	<0.150	0.150	02/27/2014	ND	5.60	93.4	6.00	2.69	
Total BTEX	<0.300	0.300	02/27/2014	ND					
Surrogate: Dibromofluoromethane	98.3	% 61.3-14	2						
Surrogate: Toluene-d8	99.4	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	106	% 65.7-14	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	02/27/2014	ND	400	100	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	02/26/2014	ND	204	102	200	5.45	
DRO >C10-C28	149	10.0	02/26/2014	ND	199	99.7	200	2.11	
Surrogate: 1-Chlorooctane	98.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	105	% 63.6-15	4						

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Received: 02/20/2014 Sampling Date: 02/18/2014

Reported: 02/28/2014 Sampling Type: Soil

Project Name: CYPRESS 34 FEDERAL #1 CTB Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Analyzed By: MC

Project Location: SOUTH 128

ma/ka

### Sample ID: SP 4 @ 5' (H400524-13)

RTFY 8260R

B1EX 8260B	тд/кд		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2014	ND	1.95	97.7	2.00	2.03	
Toluene*	<0.050	0.050	02/27/2014	ND	1.98	99.0	2.00	3.42	
Ethylbenzene*	<0.050	0.050	02/27/2014	ND	1.85	92.7	2.00	3.29	
Total Xylenes*	<0.150	0.150	02/27/2014	ND	5.60	93.4	6.00	2.69	
Total BTEX	<0.300	0.300	02/27/2014	ND					
Surrogate: Dibromofluoromethane	94.4	% 61.3-14	22						
Surrogate: Toluene-d8	102	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	109	% 65.7-14	1						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	02/27/2014	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/26/2014	ND	204	102	200	5.45	
DRO >C10-C28	464	10.0	02/26/2014	ND	199	99.7	200	2.11	
Surrogate: 1-Chlorooctane	95.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	106	% 63.6-15	4						

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Fax To: (575) 397-0397

Received: 02/20/2014 Sampling Date: 02/18/2014

Reported: 02/28/2014 Sampling Type: Soil

Project Name: CYPRESS 34 FEDERAL #1 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: SOUTH 128

### Sample ID: SP 4 @ 6' (H400524-14)

BTEX 8260B	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	02/27/2014	ND	1.95	97.7	2.00	2.03	
Toluene*	<0.050	0.050	02/27/2014	ND	1.98	99.0	2.00	3.42	
Ethylbenzene*	<0.050	0.050	02/27/2014	ND	1.85	92.7	2.00	3.29	
Total Xylenes*	0.185	0.150	02/27/2014	ND	5.60	93.4	6.00	2.69	
Total BTEX	<0.300	0.300	02/27/2014	ND					
Surrogate: Dibromofluoromethane	94.3	% 61.3-14	2						
Surrogate: Toluene-d8	99.3	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	106	% 65.7-14	1						
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	02/27/2014	ND	400	100	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	02/26/2014	ND	204	102	200	5.45	
DRO >C10-C28	524	10.0	02/26/2014	ND	199	99.7	200	2.11	
Surrogate: 1-Chlorooctane	97.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	108	% 63.6-15	4						

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Received: 02/20/2014 Sampling Date: 02/18/2014

Reported: 02/28/2014 Sampling Type: Soil

Project Name: CYPRESS 34 FEDERAL #1 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: SOUTH 128

### Sample ID: SP 5 @ 1' (H400524-15)

BTEX 8260B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	02/27/2014	ND	1.95	97.7	2.00	2.03	
Toluene*	<0.100	0.100	02/27/2014	ND	1.98	99.0	2.00	3.42	
Ethylbenzene*	<0.100	0.100	02/27/2014	ND	1.85	92.7	2.00	3.29	
Total Xylenes*	0.400	0.300	02/27/2014	ND	5.60	93.4	6.00	2.69	
Total BTEX	<0.600	0.600	02/27/2014	ND					
Surrogate: Dibromofluoromethane	94.5	% 61.3-14	2						
Surrogate: Toluene-d8	101	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	118	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1550	16.0	02/27/2014	ND	400	100	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	23.1	10.0	02/27/2014	ND	204	102	200	5.45	
DRO >C10-C28	427	10.0	02/27/2014	ND	199	99.7	200	2.11	
Surrogate: 1-Chlorooctane	96.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	99.5	% 63.6-15	4						

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Received: 02/20/2014 Sampling Date: 02/18/2014

Reported: 02/28/2014 Sampling Type: Soil

Project Name: CYPRESS 34 FEDERAL #1 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: SOUTH 128

### Sample ID: SP 5 @ 3' (H400524-16)

BTEX 8260B	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	02/27/2014	ND	1.95	97.7	2.00	2.03	
Toluene*	<0.050	0.050	02/27/2014	ND	1.98	99.0	2.00	3.42	
Ethylbenzene*	<0.050	0.050	02/27/2014	ND	1.85	92.7	2.00	3.29	
Total Xylenes*	<0.150	0.150	02/27/2014	ND	5.60	93.4	6.00	2.69	
Total BTEX	<0.300	0.300	02/27/2014	ND					
Surrogate: Dibromofluoromethane	96.4	% 61.3-14	2						
Surrogate: Toluene-d8	98.5	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	108	% 65.7-14	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	02/27/2014	ND	400	100	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	02/26/2014	ND	204	102	200	5.45	
DRO >C10-C28	180	10.0	02/26/2014	ND	199	99.7	200	2.11	
Surrogate: 1-Chlorooctane	101	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	123	% 63.6-15	4						

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Received: 02/20/2014 Sampling Date: 02/18/2014

Reported: 02/28/2014 Sampling Type: Soil

Project Name: CYPRESS 34 FEDERAL #1 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: SOUTH 128

### Sample ID: SP 5 @ 5' (H400524-17)

BTEX 8260B	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	02/27/2014	ND	1.95	97.7	2.00	2.03	
Toluene*	<0.050	0.050	02/27/2014	ND	1.98	99.0	2.00	3.42	
Ethylbenzene*	<0.050	0.050	02/27/2014	ND	1.85	92.7	2.00	3.29	
Total Xylenes*	<0.150	0.150	02/27/2014	ND	5.60	93.4	6.00	2.69	
Total BTEX	<0.300	0.300	02/27/2014	ND					
Surrogate: Dibromofluoromethane	95.7	% 61.3-14	2						
Surrogate: Toluene-d8	99.7	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	106	% 65.7-14	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	02/27/2014	ND	400	100	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	02/26/2014	ND	204	102	200	5.45	
DRO >C10-C28	333	10.0	02/26/2014	ND	199	99.7	200	2.11	
Surrogate: 1-Chlorooctane	95.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	103	% 63.6-15	4						

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Received: 02/20/2014 Sampling Date: 02/18/2014

Reported: 02/28/2014 Sampling Type: Soil

Project Name: CYPRESS 34 FEDERAL #1 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: SOUTH 128

### Sample ID: SP 5 @ 6' (H400524-18)

BTEX 8260B	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	02/27/2014	ND	1.95	97.7	2.00	2.03	
Toluene*	<0.050	0.050	02/27/2014	ND	1.98	99.0	2.00	3.42	
Ethylbenzene*	<0.050	0.050	02/27/2014	ND	1.85	92.7	2.00	3.29	
Total Xylenes*	<0.150	0.150	02/27/2014	ND	5.60	93.4	6.00	2.69	
Total BTEX	<0.300	0.300	02/27/2014	ND					
Surrogate: Dibromofluoromethane	98.6	% 61.3-14	2						
Surrogate: Toluene-d8	101	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	106	% 65.7-14	1						
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	02/27/2014	ND	400	100	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	02/26/2014	ND	204	102	200	5.45	
DRO >C10-C28	559	10.0	02/26/2014	ND	199	99.7	200	2.11	
Surrogate: 1-Chlorooctane	93.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	106	% 63.6-15	4						

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Received: 02/20/2014 Sampling Date: 02/19/2014

Reported: 02/28/2014 Sampling Type: Soil

Project Name: CYPRESS 34 FEDERAL #1 CTB Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Analyzed By: MC

Project Location: SOUTH 128

ma/ka

### Sample ID: SP 6 @ 1' (H400524-19)

RTFY 8260R

B1EX 8260B	mg,	/ Kg	Analyze	а ву: мѕ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2014	ND	1.95	97.7	2.00	2.03	
Toluene*	<0.050	0.050	02/28/2014	ND	1.98	99.0	2.00	3.42	
Ethylbenzene*	<0.050	0.050	02/28/2014	ND	1.85	92.7	2.00	3.29	
Total Xylenes*	<0.150	0.150	02/28/2014	ND	5.60	93.4	6.00	2.69	
Total BTEX	<0.300	0.300	02/28/2014	ND					
Surrogate: Dibromofluoromethane	97.9	% 61.3-14	2						
Surrogate: Toluene-d8	99.8	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	97.8	% 65.7-14	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	02/27/2014	ND	400	100	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	02/26/2014	ND	204	102	200	5.45	
DRO >C10-C28	<10.0	10.0	02/26/2014	ND	199	99.7	200	2.11	
Surrogate: 1-Chlorooctane	93.2	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	94.5	% 63.6-15	4						

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Received: 02/20/2014 Sampling Date: 02/19/2014

Reported: 02/28/2014 Sampling Type: Soil

Project Name: CYPRESS 34 FEDERAL #1 CTB Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: SOUTH 128

### Sample ID: SP 6 @ 3' (H400524-20)

BTEX 8260B	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	02/28/2014	ND	1.95	97.7	2.00	2.03	
Toluene*	<0.050	0.050	02/28/2014	ND	1.98	99.0	2.00	3.42	
Ethylbenzene*	<0.050	0.050	02/28/2014	ND	1.85	92.7	2.00	3.29	
Total Xylenes*	<0.150	0.150	02/28/2014	ND	5.60	93.4	6.00	2.69	
Total BTEX	<0.300	0.300	02/28/2014	ND					
Surrogate: Dibromofluoromethane	96.5	% 61.3-14	2						
Surrogate: Toluene-d8	102	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	100	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	02/27/2014	ND	400	100	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	02/26/2014	ND	204	102	200	5.45	
DRO >C10-C28	<10.0	10.0	02/26/2014	ND	199	99.7	200	2.11	
Surrogate: 1-Chlorooctane	91.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	93.7	% 63.6-15	4						

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



BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 02/20/2014 Sampling Date: 02/19/2014

Reported: 02/28/2014 Sampling Type: Soil

Project Name: CYPRESS 34 FEDERAL #1 CTB Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Analyzed By: MC

Project Location: SOUTH 128

ma/ka

### Sample ID: SP 6 @ 4' (H400524-21)

RTFY 8260R

B1EX 8260B	mg	/ Kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2014	ND	1.95	97.7	2.00	2.03	
Toluene*	<0.050	0.050	02/28/2014	ND	1.98	99.0	2.00	3.42	
Ethylbenzene*	<0.050	0.050	02/28/2014	ND	1.85	92.7	2.00	3.29	
Total Xylenes*	<0.150	0.150	02/28/2014	ND	5.60	93.4	6.00	2.69	
Total BTEX	<0.300	0.300	02/28/2014	ND					
Surrogate: Dibromofluoromethane	97.4	% 61.3-14	22						
Surrogate: Toluene-d8	101	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	97.3	% 65.7-14	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/27/2014	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/26/2014	ND	204	102	200	5.45	
DRO >C10-C28	369	10.0	02/26/2014	ND	199	99.7	200	2.11	
Surrogate: 1-Chlorooctane	94.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	103	% 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 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

Project Manager: Cliff Brilingon	Company Name: BBC International, Inc.		(505) 393-2326 FAX (505) 393-2476	101 East Mariand, Hoods, NMI 60240
P.O. #:		377.75		
		ANALYSIS REQUEST		

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				1			Company:	Co		1		Box 805	Address: P.O. Box 805
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

2.60

Sample Condition
Cool Intact
Ves 11 Yes
No No

CHECKED BY:

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

efinquished by

Time: Date: TUP, 45

Regelved By:

Phone Result: Fax Result: REMARKS:

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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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			Time:	1
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t	reasons or otherwise.	rch claim is based upon any of the above stated	ice of services hereunder by Cardinal, regardless of whether such	affiliates or successors arising out of or related to the performance
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	A	City: 2000	Project Owner:	Project #:
	-	Address:	Fax #: 575-397-0397	Phone #: 575-397-6388
		Attn:	State: NM Zip: 88241	city: Hobbs
		Company:		Address: P.O. Box 805
		P.O. #:		Project Manager: Cliff Brunson
ANALYSIS REQUEST		ELLE TO	al, Inc.	Company Name: BBC International, Inc.
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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(505) 393-2326 FAX (505) 393-2476			
Company Name: BBC International, Inc.	<u> </u>	 ANALYSIS REQUEST	
Project Manager: Cliff Brunson	P.O. #:		
Address: P.O. Box 805	Company:		
NIM I 80244			

Company Name: BBC International, Inc.  Radinses: P.O. Box 805  State: NM Zip: 88241  Project Name: Ct; # 575-397-6388  Faxt: 575-397-0397  Address: Zip: Project Owner: DX Y  Project Name: Ct; # 575-397-6388  Sampler Name: LOCAL Y  Project Name: Ct; # 575-397-6388  Sampler Name: LOCAL Y  Project Na							CKENBY:	n CHE	Sample Condition Cool Intact Dives Dives No No	Sample Cool	5.60	Cn	(Circle One) Bus - Other:	Delivered By: (Circle One) Sampler - UPS - Bus - Other:
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		NALYS					(LL 70)	6	77.204.005		4	Inc.	BBC International,	Company Name:

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

Page 26 of 26



November 17, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: CYPRESS 34 #1

Enclosed are the results of analyses for samples received by the laboratory on 11/14/14 16:25.

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)

Celey D. Keine

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



BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 11/14/2014 Sampling Date: 11/13/2014

Reported: 11/17/2014 Sampling Type: Soil

Project Name: CYPRESS 34 #1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: RAW HIDE ROAD

### Sample ID: SIDEWALL #1 (H403528-01)

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	11/17/2014	ND	1.83	91.3	2.00	6.10	
Toluene*	<0.050	0.050	11/17/2014	ND	1.77	88.4	2.00	5.96	
Ethylbenzene*	<0.050	0.050	11/17/2014	ND	1.71	85.3	2.00	7.07	
Total Xylenes*	<0.150	0.150	11/17/2014	ND	5.12	85.3	6.00	7.69	
Total BTEX	<0.300	0.300	11/17/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 61-154	!						
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	11/17/2014	ND	416	104	400	3.92	
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	11/17/2014	ND	190	95.2	200	0.694	
DRO >C10-C28	<10.0	10.0	11/17/2014	ND	191	95.5	200	0.179	
Surrogate: 1-Chlorooctane	111 %	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	117 9	52.1-17	6						

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 11/14/2014 Sampling Date: 11/13/2014

Reported: 11/17/2014 Sampling Type: Soil

Project Name: CYPRESS 34 #1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: RAW HIDE ROAD

### Sample ID: SIDEWALL #2 (H403528-02)

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	11/17/2014	ND	1.83	91.3	2.00	6.10	
Toluene*	< 0.050	0.050	11/17/2014	ND	1.77	88.4	2.00	5.96	
Ethylbenzene*	< 0.050	0.050	11/17/2014	ND	1.71	85.3	2.00	7.07	
Total Xylenes*	<0.150	0.150	11/17/2014	ND	5.12	85.3	6.00	7.69	
Total BTEX	<0.300	0.300	11/17/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.9 %	% 61-154							
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	11/17/2014	ND	416	104	400	3.92	
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	11/17/2014	ND	190	95.2	200	0.694	
DRO >C10-C28	<10.0	10.0	11/17/2014	ND	191	95.5	200	0.179	
Surrogate: 1-Chlorooctane	118 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	127 %	6 52.1-17	6						

Cardinal Laboratories \*=Accredited Analyte

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### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories \*=Accredited Analyte

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	25:00
Project Manager: Cliff Brunson	ANALYSIS REQUEST
Address: P.O. Box 805	
City: Hobbs State: NM Zip: 88241	Company:
5	Add Attn:
0	Address:
2	City:
on:	State: Zip:
DOED	Phone #:
	Fax #:
	PRESERV. SAMPLING
WATER	
	OTHER: CID/BAS CE/COC OTHER:
2	
	11:13:14 1:20 11
LEASE NOTE: Liability and Damages. Cardina's liability and client's exclusive remedy for any claim arising whether based in contract or fort shall be limited to the	Of lot shall be limited to the
litable or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether work prices of ways of the competition of the explicable for the performance of services hereunder by Cardinal, regardless of whether work prices in the performance of services hereunder by Cardinal, regardless of whether work prices.	I received by Cardinal within 30 days after completion of the applicable loss of use, or loss of profits incurred by Client, its substitiaries.
Date: Date: Time:	t:   Yes
	□ Yes □ No
Time:	
Sample Condition  Sample Cool Intact	on CHECKED BY:

### Jennifer Gilkey

From:

Cliff P. Brunson < cbrunson@bbcinternational.com>

Sent:

Sunday, April 06, 2014 4:50 PM

To:

Mike Bratcher

Cc:

C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis

Subject:

OXY-Cypress 34 Federal #1 CTB-Remediation Plan

Attachments:

Remediation Packet, Cypress 34 Federal #1 CTB.pdf

Mike,

This e-mail is to confirm our conversation on April 1, 2014 about the remediation plan for the above referenced site. I have attached the materials that we used in our discussion. As discussed, Oxy will excavate to a depth of 2 to 3 feet or as practicable in the entire leak areas as depicted on the attached site diagram. Then 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
E-Mail: <a href="mailto:cbrunson@bbcinternational.com">cbrunson@bbcinternational.com</a>

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### **Kathy Purvis**

From: Van Curen, Jennifer < jvancure@blm.gov>

**Sent:** Tuesday, April 22, 2014 6:55 AM

**To:** Cliff P. Brunson

Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis

**Subject:** Re: Oxy-Remediation Plans Approval Status

EC Hill B Fed #20 --Contacted CJ and approved work on 4-16-14. Stips apply to this remediation: SP1 is 3' and SP2 & SP3 is 6" minimal removal. Berm well pad to prevent fluids from leaving the well pad. Pay close attention to not disturb old drilling pit.

Cypress 34 Fed #1 -- Received plan in on 4-6-14 and approved on 4-16-14 after visiting with CJ. Stips are to repair cattle guard and fence along lease road, correct erosion issue in the NW, need sidewall samples from area to lined to unlined behind two tanks, Lease number missing on well sign, SP1 min is 3', SP2 is 1' minimal --sample to be sure TPH is less than 1000. SP3 & SP6 is 1' removal and SP5 is 2' removal. SP6 should be lined with a small berm to catch load line spillage from trucks. **Samples from confirmations must be sent in.** 

Cedar Canyon 28 Fed #4 -- Received plan on 4-6-14 and approved plan on 4-16-14 after reviewing with CJ. Excavating 2' in areas of SP1 & SP2, and 1' removal from SP3. The area at SP1 & SP2 will have a clay liner used. Discussed plan with CJ and let him know that since there are hydrocarbons around the heater treater and separator that the clay will not be effective due to the hydrocarbons breaking down the clay rather quickly. If spill occurs in that area, it will still need to be delineated.

Patton 17 Fed #6 -- Contacted CJ and approved work on 4-16-14. Stips apply to this remediation: Would allow surface scrape on well pad. There is no need to dig into pit with low levels of chlorides. Pit needs to be capped anyway. Recommend no or little digging, capping and topsoil.

MLMU #246 -- Plan received for remediation on 4-5-14 and approved after reviewing with CJ on 4-16-14. Sidewalls need to be taken for horizontal cleanup. **Confirmation samples need to be sent in.** 

Bradley 13 Fed Battery -- Received plan in for remediation of spill on 4-6-14 and approved on 4-16-14 after visiting with CJ. Need to delineate north of tank. Tank needs to have integrity test completed and repairs made or replacement, remediate the release around the pumpjack and north to the pit area. No plan necessary, just complete the work for this area and test to be sure that contaminants have been removed. Be careful to not dig into pit contents. Remove hot material and cap if necessary. Deep bury or haul off the cement slab. **Confirmation samples from wellhead and pit area will need to be sent in.** 

Confirmation samples or delineation samples are very important not only to the BLM but also the operator. This is what will determine the plan of action in reclamation of the plugged well. Without that information, massive mistakes will be (have been) made, costing hundreds of thousands in remediation of plugged wells. Strategical thinking is priceless.

Jennifer

JENNIFER E VAN CUREN ENVIRONMENTAL PROTECTION SPECIALIST DOI-BLM-CARLSBAD FIELD OFFICE 320 E GREENE ST. CARLSBAD, NM 88220 OFFICE- 575-234-5905 CELL - 575-361-0042 FAX - 575-234-5927

"There are known knowns. These are things we know that we know. There are known unknowns. That is to say, there are things that we know we don't know." Jim Perry

On Mon, Apr 21, 2014 at 4:02 PM, Cliff P. Brunson < <u>cbrunson@bbcinternational.com</u>> wrote: Jennifer,

I am following up on several remediation plans that I sent to you for approval a couple of weeks ago. Could you give me an update status on the following Oxy sites:

EC Hill B Fed #20 Cypress 34 Fed #1 Cedar Canyon 28 Fed #4 Patton 17 Fed #6 MLM #246 Bradley 13 Fed Battery

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@bcinternational.com

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