Closure Report

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नका दुवाकु के _{किस्} य	Site Description	1
Site Name:	AMAX 24 #8 CTB	NMOCD ARTESIA
Company:	Oxy Permian Ltd.	I RECEIVED I
Legal Description:	Section 24, T23S, R31E	007.7.7.000
County:	Eddy County, NM	OCT 17 2013
GPS Coordinates:	N 32.28895° W 103.73888°	NMOCD ARTESIA

	Release Data	Mark 1975
Date of Release:	01/24/2012	
Type of Release:	Oil and produced water	
Source of Release:	End cap leak on rental frac tank	-
Volume of Release:	30 bbls	
Volume Recovered:	0 bbls	

Remediation Specifications									
Remediation	Excavate 2' in the areas of SP1- SP3. Excavate 1'in the areas								
Parameters:	of SP4 & SP5. In the area of SP6, excavate 3' & obtain								
	sidewall confirmation samples & test for TPH, BTEX, and Cl.								
	Excavate 1' in the areas of SP7- SP9. Obtain confirmation								
	bottom and sidewall samples. Backfill the site with clean soil.								
Remediation Activities:	09/05/2013 to 10/07/2013								

Plan Sent to OCD:	01/22/2013	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	01/25/2013	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	01/28/2013	Email from Cliff Brunson to J. Van Curen
BLM Approval of Plan:	03/25/2013	Email from J. Van Curen to Cliff Brunson

	Supporting Documentation
Initial C-141	Signed 03/22/2012
Final C-141	Signed 10/15/2013
Site Diagram	February 2012
Groundwater Plot	200'
TOPO Maps	February 2012
Lab Summary	04/04/12-04/06/12, 04/09/12, 09/10/12, 09/10/13, &09/19/2013
Lab Analysis	04/04/12-04/06/12, 04/09/12, 09/10/12, 09/10/13, &09/19/2013
Correspondence	Request and approval of remediation plan via email

Request for Closure

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

Cliff Brunson, President of BBC International Inc.

10/15/2013

District 1 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Río 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

Submit 2 Copies to appropriate District Office in accordance

Form C-141

Revised October 10, 2003

with Rule 116 on back side of form

Release Notification and Corrective Action OPERATOR ☐ Initial Report Final Report Contact Chancey Summers Name of Company Oxy Permian Ltd. Address 1017 W. Stanolind Road; Hobbs, NM 88240 Telephone No. 575-397-8216 Facility Name AMAX 24 #8 CTB Facility Type Gathering Surface Owner Mineral Owner Lease No. BLM LOCATION OF RELEASE North/South Line Feet from the East/West Line Unit Letter Section Township Range Feet from the County 24 23S 31E Eddy County, NM Latitude 32.28895 **Longitude**_____103.73888 NATURE OF RELEASE Type of Release Oil & Produced water Volume of Release 30 bbls Volume Recovered 0 bbls Date and Hour of Occurrence Source of Release End Cap Leak on rental Frac Tank Date and Hour of Discovery 01/24/2012 @ 9:35 a.m. If YES, To Whom? Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required Mike Bratcher-OCD, James Amos- BLM Date and Hour 02/16/2012 @ 11:33 a.m. By Whom? Chancey Summers If YES, Volume Impacting the Watercourse. Was a Watercourse Reached? ☐ Yes 🛛 No If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* A failure of the end cap on a frac tank caused 30 bbls of oil and produced water to leak. The end cap was replaced. Describe Area Affected and Cleanup Action Taken.* Remediate to NMOCD guidelines. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature: Approved by District Supervisor: Printed Name: Chancey Summers Title: HES Specialist Approval Date: **Expiration Date:** E-mail Address: chancey summers@oxy.com Conditions of Approval: Attached

Phone: (575) 397-8216

Date:

³⁻²²⁻¹² * Attach Additional Sheets If Necessary

<u>District 1</u> 1625 N. French Dr., Hobbs, NM 88240 District II

1000 Rio Brazos Road, Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Flobbs, NM 87505

State of New Mexico Energy Minerals and Natural Resources

DCT 17 2013

RECEIVED

Form C-141 Revised August 8, 2011

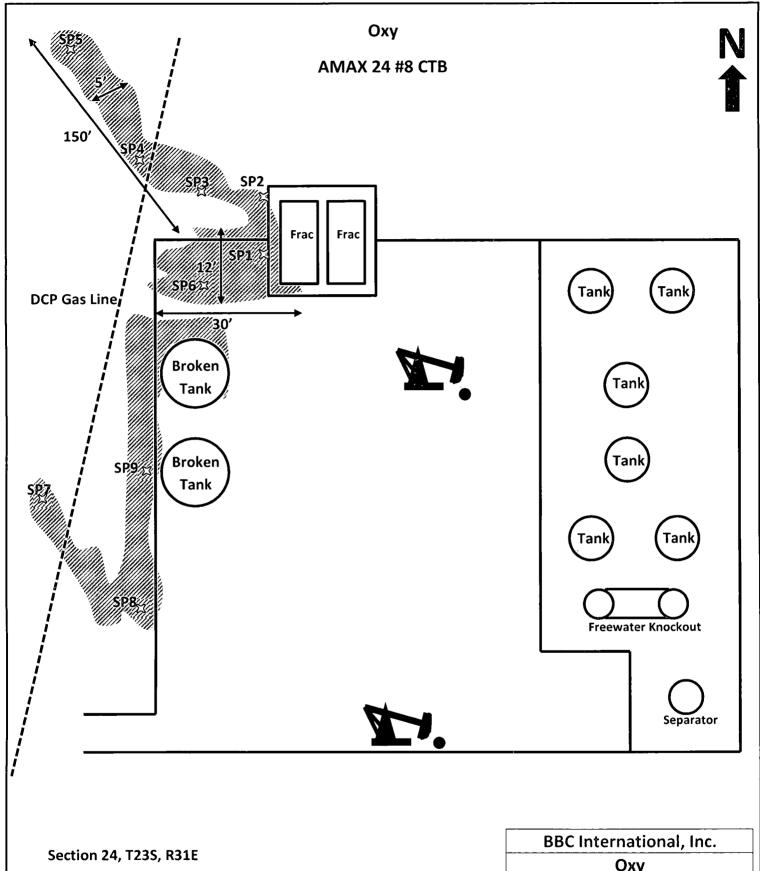
NMOOD ARTE CONTROL District Office in accordance with 19.15.29 NMAC.

Oil Conservation Division 1220 South St. Francis Dr.

Santa Fe, NM 87505

			Rele	ease Notific	eation	i and Co	orrective A	ction	
						OPERA	ГOR	☐ Ir	itial Report 🛛 Final Report
Name of Co	mpany	Oxy Permia	n Ltd.	***************************************		***	Chancey Summe		
Address	1017 W. St	tanolind Rd,	Hobbs, i	VM 88240 .	-	Telephone N	No. (575) 397	-8216	
Facility Nat	ne AMA	AX 24 #8 CT	`B			Facility Typ	e Gathering		
Surface Ow	ner BLN	А		Mineral C	wner			API	No.
				LOCA	TION	N OF REI	LEASE		
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/West Lin	e County
	24	23\$	31E						Eddy
	1		Latit	ude <u>N 32,28895</u>	<u>5°</u>	Lon	gitude <u>W 103.7</u>	3888°	
				NAT	URE	OF RELI			
Type of Rele		Produced wa				Volume of			c Recovered 0 bbls
Source of Re	lease End	l Cap Leak on	rental Fra	ac Tank		1	our of Occurrence @ 9:35 am	e Date a	nd Hour of Discovery
Was Immedia	ite Notice C					If YES, To	Whom?		
			Yes _	No Not Re	equired	Mike Brate	her-NMOCD; Jai	nes Amos- BL	νt
By Whom?	Chancey S					Date and H		2 @ 11:33 am	
Was a Water	course Reac		Yes 🗵	No		If YES, Vo	lume Impacting t	ne Watercourse	
If a Watercou	ırse was Imp	pacted, Descri	be Fully.*	(
Describe Cau	se of Proble	em and Remed	lial Action	Taken.*					
A failure of the	ne end cap o	on a frac tank	caused 30	bbls of oil and pr	oduced v	water to leak.	The end cap was	replaced.	
Describe Are	a Affected a	nd Cleanup A	ction Tak	en.*					
				land. Remediation by Jennifer Van G					olan approved by Mike Bratcher of
regulations al public health should their o	I 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 QD accep	d/or file certain ro e of a C-141 repo investigate and re	elease no rt by the emediate	otifications ar NMOCD ma contamination	id perform correct arked as "Final Ro on that pose a thro	tive actions for eport" does not a to ground wa	ursuant to NMOCD rules and releases which may endanger relieve the operator of liability ater, surface water, human health reompliance with any other
			~-)				OIL CONS	SERVATIO	N DIVISION
Signature:			\geq						
Printed Name	: Chance	y Summers			A	Approved by	Environmental Sp	ecialist:	
Title: HES	Specialist				A	Approval Date	2:	Expiration	on Date:
E-mail Addre	1	cey.Summers(@oxy.com		c	Conditions of	Approval:		Attached
Date: 10	115/1	3	Phone:	(575) 397-8210	5				

^{*} Attach Additional Sheets If Necessary



Eddy County, NM N 32.28895 W 103.73888

BBC Intern	ational, Inc.
C	Эху
AMAX 2	24 #8 CTB
Date: 02/09/12	DDMC hould Domin

Date: 02/08/12	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2012



Groundwater Plot

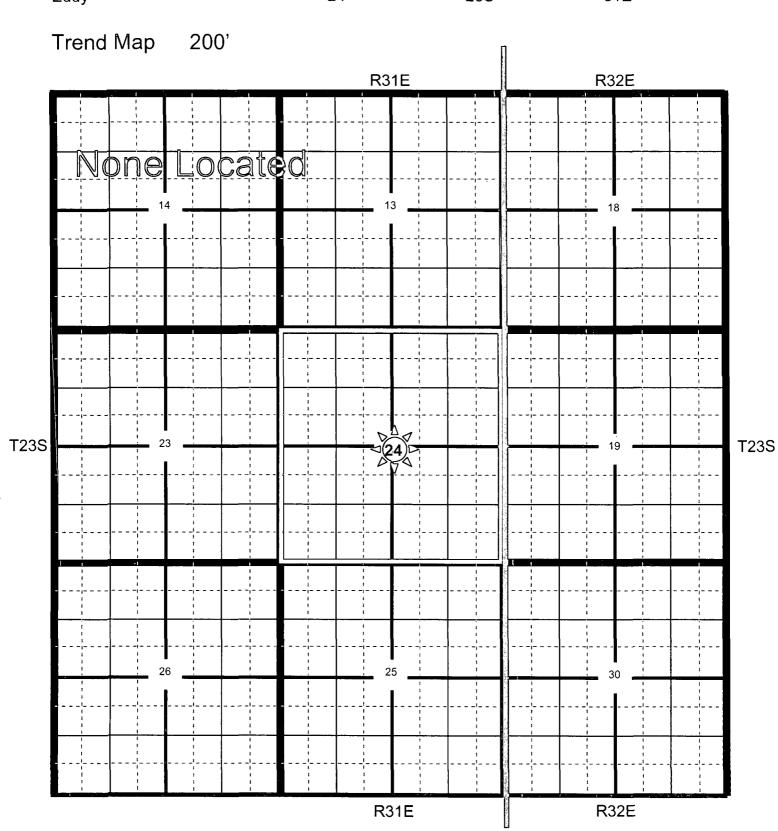
Oxy AMAX 24 #8 CTB

County Eddy Unit Letter

Section 24

Township 23S

Range 31E





Section Quarters

Oxy AMAX 24 #8 CTB

County Eddy Unit Letter

Section 24

Township 23S Range 31E

Trend Map 200'

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2

NW/NW	NE/NW	NW/NE	NE/NE
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None Lo	pcated		, , ,
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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

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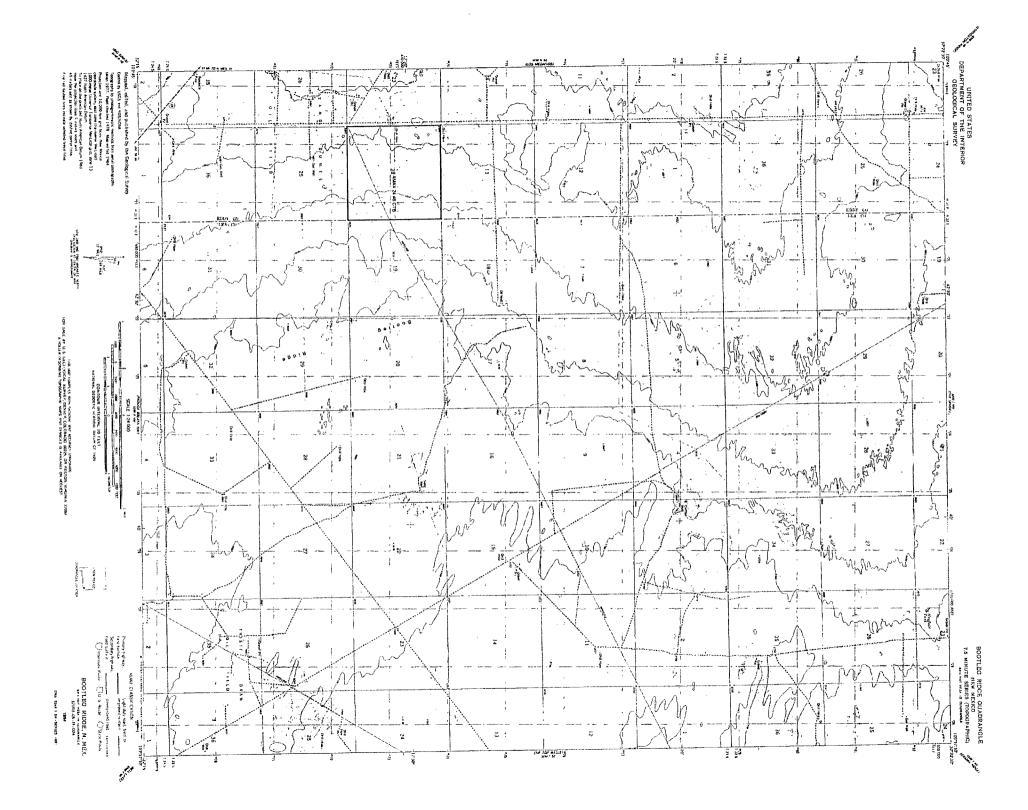
♣ Location

o OCD

OUSGS

o SEO

All Databases



Laboratory Analytical Results Summary Amax 24 #8 CTB

		Sample	SP1 @ Surface	SP1 @ 2 ft	SP1 @ 3 ft	SP2 @ Surface	SP2 @ 2 ft	SP3 @ Surface	SP3 @ 2 ft	SP3 @ 5 ft	SP3 @ 8 ft	SP3 @ 9 ft	SP3 @ 10 ft
Analyte	Method	Date	4/4/12	4/4/12	4/4/12	4/4/12	4/4/12	4/4/12	4/4/12	4/4/12	4/4/12	4/4/12	4/6/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	0.793	<0.050	0.175	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	1.23	<0.050	1.27	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	5.05	<0.150	5.48	<0.150	<0.150	<0.150	<0.150	<0.150
Chloride	SM4500CI-B		864	128	1280	48.0	6960	<16.0	880	2760	160	128	80.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	98.4	<10.0	367	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		59.5	195	123	159	<10.0	16000	38.5	140	<10.0	<10.0	<10.0

		Sample	SP4 @ Surface	SP4 @ 2 ft	SP4 @ 5 ft	SP4 @ 7 ft	SP5 @ Surface	SP5 @ 2 ft	SP5 @ 4 ft	SP5 @ 6 ft	SP6 @ Surface	SP6 @ 2 ft	SP6 @ 5 ft	SP6 @ 8 ft	SP6 @ 10 ft
Analyte	Method	Date	4/6/12	4/6/12	4/6/12	4/6/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/6/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	< 0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.272	<0.050	<0.050	<0.050	0.212	<0.050	<0.050	<0.050	0.589	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		1.78	<0.050	<0.050	<0.050	1.56	<0.050	<0.050	<0.050	2.14	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		7.24	<0.150	<0.150	<0.150	6.91	<0.150	<0.150	<0.150	8.52	<0.150	<0.150	<0.150	<0.150
Chloride	SM4500CI-B		<16.0	<16.0	32.0	128.0	<16.0	16.0	32.0	80.0	1760	1640	1870	2800	80.0
GRO	TPH 8015M		380	<10	<10	<10	473	<10.0	<10.0	<10.0	480	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		15500	35.7	24.8	<10	18800	<10.0	<10.0	<10.0	13600	37.5	<10.0	23.2	<10.0

2nd sampling event		Sample	SP7 @ Surface	SP7 @ 1'	SP7 @ 3'	SP8 @ Surface	SP8 @ 1'	SP8 @ 3'	SP9 @ Surface	SP9 @ 1'	SP9 @ 3'
Analyte	Method	Date	4/9/12	4/9/12	4/9/12	4/9/12	4/9/12	4/9/12	4/9/12	4/9/12	4/9/12
_			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B	1	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B	l '	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	0.085	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B	·	0.447	<0.150	<0.150	0.571	<0.150	<0.150	<0.150	<0.150	<0.150
Chloride	SM4500CI-B		32	<16.0	48	16.0	<16.0	32	16	<16.0	48
GRO	TPH 8015M		62.5	<10.0	<10.0	76.6	<10.0	<10.0	<100	<10.0	<10.0
DRO	TPH 8015M		7890	171	76.1	8000	135	161	4690	91.5	22.4

3rd sampling event		Sample	SP1 @ 4'	SP1 @ 5'	SP2 @ 3'	SP2 @ 4'
Analyte	Method	Date	9/10/12	9/10/12	9/10/12	9/10/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		<16.0	<16.0	<16.0	>16.0

Laboratory Analytical Results Summary AMAX 24 #8

Confirmation		Sample	Sidewall 1
Analyte	Method	Date	9/10/13
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500CI-B		80
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	Sidewall 2
Analyte	Method	Date	9/10/13
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500CI-B		80
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	Sidewall 3
Analyte	Method	Date	9/10/13
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500CI-B		48
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	Sidewall 4
Analyte	Method	Date	9/10/13
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500CI-B		96
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

Confirmation		Sample	Bottom Sample
Analyte	Method	Date	9/19/13
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500CI-B		368
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		75.6



April 12, 2012

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: AMAX 24 #8 CTB

Enclosed are the results of analyses for samples received by the laboratory on 04/09/12 10:03.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg & Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To: (505) 397-0397

Received:

04/09/2012

Sampling Date:

04/04/2012

Reported:

04/12/2012

Sampling Type:

Soil

Project Name:

AMAX 24 #8 CTB

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

C-29

Sample ID: SP 1 @ SURFACE (H200799-01)

BTEX 8021B	mg/	'kg	Analyze	d By: AP		-			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS % Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/10/2012	ND	1.97	98.4	2.00	2.95	
Toluene*	<0.050	0.050	04/10/2012	ND	2.10	105	2.00	1.70	
Ethylbenzene*	<0.050	0.050	04/10/2012	ND	2.10	105	2.00	1.22	
Total Xylenes*	<0.150	0.150	04/10/2012	ND	6.50	108	6.00	1.09	
Surrogate: 4-Bromofluorobenzene (PIL	105	% 64.4-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	04/11/2012	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	04/11/2012	ND	192	95.9	200	0.732	
DRO >C10-C28	59.5	10.0	04/11/2012	ND	188	94.2	200	17.1	
Surrogate: 1-Chlorooctane	106 9	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	129	% 57.6-15	8						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause 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 inodental or consequential damages, including, which initiation, business interruptions, loss of use, or loss of profits incurred by clern, its subcidaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



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

Fax To:

(505) 397-0397

Received:

04/09/2012

Sampling Date:

04/04/2012

Reported:

04/12/2012

NONE GIVEN

Sampling Type:

Soil

Project Name:

AMAX 24 #8 CTB

Sampling Condition:

Cool & Intact

Project Number: Project Location:

C-29

Sample Received By:

Jodi Henson

Sample ID: SP 1 @ 2' (H200799-02)

BTEX 8021B	mg/	/kg	Analyze	d By: AP		_			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2012	ND	1.97	98.4	2.00	2.95	
Toluene*	<0.050	0.050	04/10/2012	ND	2.10	105	2.00	1.70	
Ethylbenzene*	<0.050	0.050	04/10/2012	ND	2.10	105	2.00	1.22	
Total Xylenes*	<0.150	0.150	04/10/2012	ND	6.50	108	6.00	1.09	
Surrogate: 4-Bromofluorobenzene (PIL	100	% 64.4-13	14						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/11/2012	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	04/11/2012	ND	192	95.9	200	0.732	
DRO >C10-C28	195	10.0	04/11/2012	ND	188	94.2	200	17.1	
Surrogate: 1-Chlorooctane	112	% 55.5-15	i <i>4</i>		-				
Surrogate: 1-Chlorooctadecane	130	% 57.6-15	58						

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: (505) 397-0397

Received:

04/09/2012

Sampling Date:

04/04/2012

Reported:

04/12/2012

Sampling Type:

Soil

Project Name:

AMAX 24 #8 CTB

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

C-29

Sample ID: SP 1 @ 3' (H200799-03)

BTEX 8021B	mg,	/kg	Analyze	d By: AP				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2012	ND	1.97	98.4	2.00	2.95	
Toluene*	<0.050	0.050	04/10/2012	ND	2.10	105	2.00	1.70	
Ethylbenzene*	<0.050	0.050	04/10/2012	ND	2.10	105	2.00	1.22	
Total Xylenes*	<0.150	0.150	04/10/2012	ND	6.50	108	6.00	1.09	
Surrogate: 4-Bromofluorobenzene (PIL	101	% 64.4-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	04/11/2012	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	04/11/2012	ND	192	95.9	200	0.732	
DRO >C10-C28	123	10.0	04/11/2012	ND	188	94.2	200	17.1	
Surrogate: 1-Chlorooctane	113	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	142	% 57.6-15	8						

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Celeg D. Keine



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

Fax To: (505) 397-0397

Received:

04/09/2012

Sampling Date:

04/04/2012

Reported:

04/12/2012

Sampling Type:

Soil

AMAX 24 #8 CTB

Sampling Condition:

Cool & Intact

Project Name: Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

C-29

Sample ID: SP 2 @ SURFACE (H200799-04)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					S-04
Analyte ·	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2012	ND	1.97	98.4	2.00	2.95	
Toluene*	0.793	0.050	04/10/2012	ND	2.10	105	2.00	1.70	
Ethylbenzene*	1.23	0.050	04/10/2012	ND	2.10	105	2.00	1.22	
Total Xylenes*	5.05	0.150	04/10/2012	ND	6.50	108	6.00	1.09	
Surrogate: 4-Bromofluorobenzene (PIL	135	% 64.4-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/11/2012	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	98.4	10.0	04/11/2012	ND	192	95.9	200	0.732	
DRO >C10-C28	159	10.0	04/11/2012	ND	188	94.2	200	17.1	
Surrogate: 1-Chlorooctane	119	% 55.5-15	4		-	,			
Surrogate: 1-Chlorooctadecane	134	% 57.6-15	8						

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

(505) 397-0397 Fax To:

Received:

04/09/2012

Sampling Date:

04/04/2012

Reported:

04/12/2012

Sampling Type:

Soil

Project Name:

AMAX 24 #8 CTB

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

C-29

Sample ID: SP 2 @ 2' (H200799-05)

BTEX 8021B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2012	ND	1.97	98.4	2.00	2.95	
Toluene*	<0.050	0.050	04/10/2012	ND	2.10	105	2.00	1.70	
Ethylbenzene*	<0.050	0.050	04/10/2012	ND	2.10	105	2.00	1.22	
Total Xylenes*	<0.150	0.150	04/10/2012	ND	6.50	108	6.00	1.09	
Surrogate: 4-Bromofluorobenzene (PIL	101 :	% 64.4-13	4					. •	
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: HM			••			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6960	16.0	04/11/2012	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	04/11/2012	ND	192	95.9	200	0.732	
DRO >C10-C28	<10.0	10.0	04/11/2012	ND	188	94.2	200	17.1	
Surrogate: 1-Chlorooctane	103 5	% 55.5-15	4		-				
Surrogate: 1-Chlorooctadecane	110 5	% 57.6-15	8						

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

Fax To: (505) 397-0397

Received:

04/09/2012

04/12/2012

Sampling Date:

04/04/2012

Reported:

Sampling Type:

Soil

Project Name:

AMAX 24 #8 CTB

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location: C-29 Sample Received By:

Jodi Henson

Sample ID: SP 3 @ SURFACE (H200799-06)

BTEX 8021B	mg/	kg	Analyze	d By: AP					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2012	ND	1.97	98.4	2.00	2.95	
Toluene*	0.175	0.050	04/10/2012	ND	2.10	105	2.00	1.70	
Ethylbenzene*	1.27	0.050	04/10/2012	ND	2.10	105	2.00	1.22	
Total Xylenes*	5.48	0.150	04/10/2012	ND	6.50	108	6.00	1.09	
Surrogate: 4-Bromofluorobenzene (PIL	156 9	% 64.4-13	4			-			
Chloride, SM4500CI-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/11/2012	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	367	50.0	04/11/2012	ND	192	95.9	200	0.732	
DRO >C10-C28	16000	50.0	04/11/2012	ND	188	94.2	200	17.1	
Surrogate: I-Chlorooctane	156 9	55.5-15	4	-				Den 23 10	
Surrogate: 1-Chlorooctadecane	267 9	% 57.6-15	8						

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Celeg & Keine



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

Fax To:

(505) 397-0397

Received:

04/09/2012

Reported:

04/12/2012 AMAX 24 #8 CTB

Project Name: Project Number:

NONE GIVEN

Project Location:

C-29

Sampling Date:

04/04/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 3 @ 2' (H200799-07)

BTEX 8021B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2012	ND	1.97	98.4	2.00	2.95	
Toluene*	<0.050	0.050	04/10/2012	ND	2.10	105	2.00	1.70	
Ethylbenzene*	<0.050	0.050	04/10/2012	ND	2.10	105	2.00	1.22	
Total Xylenes*	<0.150	0.150	04/10/2012	ND	6.50	108	6.00	1.09	
Surrogate: 4-Bromofluorohenzene (PIL	124	% 64.4-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	04/11/2012	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	04/11/2012	ND	192	95.9	200	0.732	
DRO >C10-C28	38.5	10.0	04/11/2012	ND	188	94.2	200	17.1	
Surrogate: 1-Chlorooctane	122 5	% 55.5-15	4				1000		
Surrogate: 1-Chlorooctadecane	151 9	% 57.6-15	8						

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Celeg to Keene



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

Fax To:

(505) 397-0397

Received: Reported: 04/09/2012

Project Name:

04/12/2012 AMAX 24 #8 CTB

133 %

57.6-158

Project Number: Project Location: NONE GIVEN C-29

Sampling Date:

04/04/2012

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SP 3 @ 5' (H200799-08)

BTEX 8021B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2012	ND	1.97	98.4	2.00	2.95	
Toluene*	<0.050	0.050	04/10/2012	ND	2.10	105	2.00	1.70	
Ethylbenzene*	< 0.050	0.050	04/10/2012	ND	2.10	105	2.00	1.22	
Total Xylenes*	<0.150	0.150	04/10/2012	ND	6.50	108	6.00	1.09	
Surrogate: 4-Bromofluorobenzene (PIL	99.8 9	% 64.4-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2760	16.0	04/11/2012	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	04/11/2012	ND	192	95.9	200	0.732	
GKO C0-C10									

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

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Fax To: (505) 397-0397

Received:

04/09/2012

Sampling Date: Sampling Type: 04/04/2012

Reported:

04/12/2012

Soil

Project Name:

AMAX 24 #8 CTB

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

C-29

Sample ID: SP 3 @ 8' (H200799-09)

BTEX 8021B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2012	ND	1.97	98.4	2.00	2.95	
Toluene*	<0.050	0.050	04/10/2012	ND	2.10	105	2.00	1.70	
Ethylbenzene*	< 0.050	0.050	04/10/2012	ND	2.10	105	2.00	1.22	
Total Xylenes*	<0.150	0.150	04/10/2012	ND	6.50	108	6.00	1.09	
Surrogate: 4-Bromofluorobenzene (PIL	102	% 64.4-13	14						
Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/11/2012	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	04/11/2012	ND	192	95.9	200	0.732	
DRO >C10-C28	<10.0	10.0	04/11/2012	ND	188	94.2	200	17.1	
Surrogate: 1-Chlorooctane	111 :	% 55.5-15	:4						
Surrogate: 1-Chlorooctadecane	119	% 57.6-15	8						

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Celeg & Keene



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

Fax To: (505) 397-0397

Received:

04/09/2012

Sampling Date:

04/06/2012

Reported:

04/12/2012

Sampling Type:

Soil

Project Name:

AMAX 24 #8 CTB

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

C-29

Sample ID: SP 3 @ 9' (H200799-10)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2012	ND	1.97	98.4	2.00	2.95	
Toluene*	<0.050	0.050	04/10/2012	ND	2.10	105	2.00	1.70	
Ethylbenzene*	<0.050	0.050	04/10/2012	ND	2.10	105	2.00	1.22	
Total Xylenes*	<0.150	0.150	04/10/2012	ND	6.50	108	6.00	1.09	
Surrogate: 4-Bromofluorobenzene (PIL	99.5	% 64.4-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/11/2012	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	04/11/2012	ND	192	95.9	200	0.732	
DRO >C10-C28	<10.0	10.0	04/11/2012	ND	188	94.2	200	17.1	
Surrogate: 1-Chlorooctane	106 5	% 55.5-15	4						A
Surrogate: 1-Chlorooctadecane	126 5	% 57.6-15	8						

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Celey & Keine



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

Fax To: (505) 397-0397

Received:

04/09/2012

Reported:

04/12/2012

Project Name: Project Number: AMAX 24 #8 CTB NONE GIVEN

Project Location:

C-29

Sampling Date:

04/06/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 3 @ 10' (H200799-11)

8021E

218	mg/kg	Analyzed By: AP
		•

Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	04/10/2012	ND	1.97	98.4	2.00	2.95	
<0.050	0.050	04/10/2012	ND	2.10	105	2.00	1.70	
<0.050	0.050	04/10/2012	ND	2.10	105	2.00	1.22	
<0.150	0.150	04/10/2012	ND	6.50	108	6.00	1.09	
	<0.050 <0.050 <0.050	<0.050 0.050 <0.050 0.050 <0.050 0.050	<0.050	<0.050 0.050 04/10/2012 ND <0.050 0.050 04/10/2012 ND <0.050 0.050 04/10/2012 ND	<0.050 0.050 04/10/2012 ND 1.97 <0.050 0.050 04/10/2012 ND 2.10 <0.050 0.050 04/10/2012 ND 2.10	<0.050 0.050 04/10/2012 ND 1.97 98.4 <0.050 0.050 04/10/2012 ND 2.10 105 <0.050 0.050 04/10/2012 ND 2.10 105	<0.050	<0.050

Surrogate: 4-Bromofluorobenzene (PIL

100 %

64.4-134

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/11/2012	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	04/11/2012	ND	192	95.9	200	0.732	
DRO >C10-C28	<10.0	10.0	04/11/2012	ND	188	94.2	200	17.1	

Surrogate: 1-Chlorooctane

79.5 %

55.5-154

Surrogate: 1-Chlorooctadecane

87.5 %

57.6-158

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Celeg D. Keine Celey D. Keene, Lab Director/Quality Manager



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

Fax To: (505) 397-0397

Received:

04/09/2012

Reported:

04/12/2012

Project Name: Project Number:

AMAX 24 #8 CTB NONE GIVEN

Project Location:

C-29

Sampling Date:

04/06/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 4 @ SURFACE (H200799-12)

BTEX 8021B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2012	ND	1.97	98.4	2.00	2.95	
Toluene*	0.272	0.050	04/10/2012	ND	2.10	105	2.00	1.70	
Ethylbenzene*	1.78	0.050	04/10/2012	ND	2.10	105	2.00	1.22	
Total Xylenes*	7.24	0.150	04/10/2012	ND	6.50	108	6.00	1.09	
Surrogate: 4-Bromofluorobenzene (PIL	109 :	% 64.4-13	4				-		
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/11/2012	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	380	100	04/11/2012	ND	192	95.9	200	0.732	
DRO >C10-C28	15500	100	04/11/2012	ND	188	94.2	200	17.1	
Surrogate: 1-Chlorooctane	170 :	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	290	% 57.6-15	8						

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Fax To: (505) 397-0397

Received: Reported: 04/09/2012

04/12/2012

Project Name:

BTEX 8021B

AMAX 24 #8 CTB

mg/kg

Project Number:

NONE GIVEN

Sampling Date:

04/06/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By: Jodi Henson

Project Location:

C-29

Sample ID: SP 4 @ 2' (H200799-13)

				-					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2012	ND	1.97	98.4	2.00	2.95	
Toluene*	<0.050	0.050	04/10/2012	ND	2.10	105	2.00	1.70	
Ethylbenzene*	<0.050	0.050	04/10/2012	ND	2.10	105	2.00	1.22	
Total Xylenes*	<0.150	0.150	04/10/2012	ND	6.50	108	6.00	1.09	
Surrogate: 4-Bromofluorobenzene (PIL	99.3 9	64.4-134	1						
Chloride, SM4500Cl-B	mg/l	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/11/2012	ND	416	104	400	0.00	

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/11/2012	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	04/11/2012	ND	192	95.9	200	0.732	
DRO >C10-C28	35.7	10.0	04/11/2012	ND	188	94.2	200	17.1	

Surrogate: 1-Chlorooctane 110% 55.5-154 Surrogate: 1-Chlorooctadecane 135 % 57.6-158

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Celey & Keene Celey D. Keene, Lab Director/Quality Manager



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

Fax To:

(505) 397-0397

Received:

04/09/2012

Sampling Date:

04/06/2012

Reported:

04/12/2012

Sampling Type:

Soil

Project Name:

AMAX 24 #8 CTB

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

C-29

Sample ID: SP 4 @ 5' (H200799-14)

BTEX 8021B	mg	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2012	ND	1.97	98.4	2.00	2.95	
Toluene*	<0.050	0.050	04/10/2012	ND	2.10	105	2.00	1.70	
Ethylbenzene*	<0.050	0.050	04/10/2012	ND	2.10	105	2.00	1.22	
Total Xylenes*	<0.150	0.150	04/10/2012	ND	6.50	108	6.00	1.09	
Surrogate: 4-Bromofluorobenzene (PIL	101	% 64.4-13	4		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Chloride, SM4500CI-B	mg,	'kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/11/2012	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/11/2012	ND	192	95.9	200	0.732	
DRO >C10-C28	24.8	10.0	04/11/2012	ND	188	94.2	200	17.1	
Surrogate: 1-Chlorooctane	113 !	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	135	% 57.6-15	8						

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Celeg D. Keene



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Fax To:

(505) 397-0397

Received:

04/09/2012

Sampling Date:

04/06/2012

Reported:

04/12/2012

Sampling Type:

Soil

Project Name:

AMAX 24 #8 CTB

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

C-29

Sample ID: SP 4 @ 7' (H200799-15)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2012	ND	1.98	99.2	2.00	1.30	
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75	
Ethylbenzene*	< 0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09	
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67	
Surrogate: 4-Bromofluorobenzene (PIL	102	% 64.4-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/11/2012	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	04/11/2012	ND	192	95.9	200	0.732	
DRO >C10-C28	<10.0	10.0	04/11/2012	ND	188	94.2	200	17.1	
Surrogate: 1-Chlorooctane	108 :	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	125	% 57.6-15	8						

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

Fax To:

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Received:

04/09/2012

Reported:

04/12/2012

Project Name: Project Number: AMAX 24 #8 CTB NONE GIVEN

Project Location:

C-29

Sampling Date:

04/05/2012

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SP 5 @ SURFACE (H200799-16)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2012	ND	1.98	99.2	2.00	1.30	
Toluene*	0.212	0.050	04/11/2012	ND	2.09	105	2.00	1.75	
Ethylbenzene*	1.56	0.050	04/11/2012	ND	2.10	105	2.00	2.09	
Total Xylenes*	6.91	0.150	04/11/2012	ND	6.57	109	6.00	1.67	
Surrogate: 4-Bromofluorohenzene (PIL	178	% 64.4-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/11/2012	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	473	100	04/11/2012	ND	192	95.9	200	0.732	
DRO >C10-C28	18800	100	04/11/2012	ND	188	94.2	200	17.1	
Surrogate: 1-Chlorooctane	191 :	% 55.5-15	4						
Surrogate: I-Chlorooctadecane	404 5	% 57.6-15	8						

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Celeg & Keene



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

Fax To: (505) 397-0397

Received:

04/09/2012

Reported:

DTEV ON 11 D

04/12/2012

Project Name: Project Number: AMAX 24 #8 CTB NONE GIVEN

Project Location:

C-29

Sampling Date:

Date:

04/05/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 5 @ 2' (H200799-17)

BIEX 8051B	mg,	/ Kg	Anaiyze	d by: AP		···			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2012	ND	1.98	99.2	2.00	1.30	
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75	
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09	
Total Xylenes*	< 0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67	

Analysis of Dyn AD

Surrogate: 4-Bromofluorobenzene (PIL

104 %

64.4-134

Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/11/2012	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	<10.0	10.0	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	<10.0	10.0	04/11/2012	ND	221	110	200	12.5	

Surrogate: 1-Chlorooctadecane

Surrogate: 1-Chlorooctane

95.5 %

55.5-154

103 %

57.6-158

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Celey D. Keene, Lab Director/Quality Manager

Page 18 of 29



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

Fax To: (505) 397-0397

Received:

04/09/2012

Sampling Date:

04/05/2012

Reported:

04/12/2012

Sampling Type:

Soil

Project Name:

AMAX 24 #8 CTB

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

C-29

Sample ID: SP 5 @ 4' (H200799-18)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2012	ND	1.98	99.2	2.00	1.30	
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75	
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09	
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67	
Surrogate: 4-Bromofluorobenzene (PIL	102 9	64.4-13	4	-					
Chloride, SM4500CI-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/11/2012	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	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	<10.0	10.0	04/11/2012	ND	221	110	200	12.5	
Surrogate: 1-Chlorooctane	103 %	6 55.5-15	4						
Surrogate: 1-Chlorooctadecane	123 9	6 57.6-15	8						

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Celeg D. Keine



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

Fax To: (505) 397-0397

Received:

04/09/2012

Sampling Date:

04/05/2012

Reported:

04/12/2012

Sampling Type: Sampling Condition: Soil

Project Name:

AMAX 24 #8 CTB

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

C-29

Sample ID: SP 5 @ 6' (H200799-19)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2012	ND	1.98	99.2	2.00	1.30	
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75	
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09	
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67	
Surrogate: 4-Bromofluorobenzene (PIL	101	% 64.4-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	ŘPD	Qualifier
Chloride	80.0	16.0	04/11/2012	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS		10			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	<10.0	10.0	04/11/2012	ND	221	110	200	12.5	
Surrogate: 1-Chlorooctane	103	% 55.5-15	4						-
Surrogate: 1-Chlorooctadecane	113	% 57.6-15	8						

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Celey D. Keine



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

Fax To: (505) 397-0397

Received: Reported: 04/09/2012

04/12/2012

Project Name: Project Number: AMAX 24 #8 CTB NONE GIVEN

Project Location:

C-29

Sampling Date:

04/05/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 6 @ SURFACE (H200799-20)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2012	ND	1.98	99.2	2.00	1.30	
Toluene*	0.589	0.050	04/11/2012	ND	2.09	105	2.00	1.75	
Ethylbenzene*	2.14	0.050	04/11/2012	ND	2.10	105	2.00	2.09	
Total Xylenes*	8.52	0.150	04/11/2012	ND	6.57	109	6.00	1.67	
Surrogate: 4-Bromofluorobenzene (PIL	108 5	% 64.4-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	04/11/2012	ND	400	100	400	3.92	

9	·9	711141724						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
1760	16.0	04/11/2012	ND	400	100	400	3.92	
mg,	/kg	Analyze	d By: MS					S-06
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
480	50.0	04/11/2012	ND	197	98.7	200	3.96	
13600	50.0	04/11/2012	ND	221	110	200	12.5	
	Result 1760 mg, Result 480	1760 16.0 mg/kg Result Reporting Limit 480 50.0	Result Reporting Limit Analyzed 1760 16.0 04/11/2012 mg/kg Analyzed Result Reporting Limit Analyzed 480 50.0 04/11/2012	Result Reporting Limit Analyzed Method Blank 1760 16.0 04/11/2012 ND mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank 480 50.0 04/11/2012 ND	Result Reporting Limit Analyzed Method Blank BS 1760 16.0 04/11/2012 ND 400 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS 480 50.0 04/11/2012 ND 197	Result Reporting Limit Analyzed Method Blank BS % Recovery 1760 16.0 04/11/2012 ND 400 100 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery 480 50.0 04/11/2012 ND 197 98.7	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 1760 16.0 04/11/2012 ND 400 100 400 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 480 50.0 04/11/2012 ND 197 98.7 200	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 1760 16.0 04/11/2012 ND 400 100 400 3.92 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 480 50.0 04/11/2012 ND 197 98.7 200 3.96

Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane 144 %

55.5-154

300 %

57.6-158

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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 waved 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 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.

Celeg D. Keene



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

Fax To: (505) 397-0397

Received:

04/09/2012

Sampling Date:

04/05/2012

Reported:

04/12/2012

Sampling Type:

Soil

Project Name:

AMAX 24 #8 CTB

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

C-29

Sample ID: SP 6 @ 2' (H200799-21)

BTEX 8021B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2012	ND	1.98	99.2	2.00	1.30	
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75	
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09	
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67	
Surrogate: 4-Bromofluorobenzene (PIL	102 9	% 64.4-13	4				-		
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1640	16.0	04/11/2012	ND	400	100	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	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	37.5	10.0	04/11/2012	ND	221	110	200	12.5	
Surrogate: 1-Chlorooctane	108 9	% 55.5-15	4	•					
Surrogate: I-Chlorooctadecane	126 9	% 57.6-15	8						

Cardinal Laboratories

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Celey D. Keine



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

Fax To: (505) 397-0397

Received:

04/09/2012

Reported:

04/12/2012

Project Name: Project Number: AMAX 24 #8 CTB NONE GIVEN

Project Location:

C-29

Sampling Date:

04/05/2012

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SP 6 @ 5' (H200799-22)

BTEX 8021B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2012	ND	1.98	99.2	2.00	1.30	
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75	
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09	•
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67	
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 64.4-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1870	16.0	04/11/2012	ND	400	100	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	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	<10.0	10.0	04/11/2012	ND	221	110	200	12.5	
Surrogate: 1-Chlorooctane	112 9	% 55.5-15	4	· · · · · · · · · · · · · · · · · · ·					
Surrogate: 1-Chlorooctadecane	135 9	% 57.6-15	S						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's flability 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 be for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keena



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

Fax To:

(505) 397-0397

Received: Reported: 04/09/2012

04/12/2012

NONE GIVEN

Project Name:

AMAX 24 #8 CTB

Project Number: Project Location:

C-29

Sampling Date:

04/05/2012

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SP 6 @ 8' (H200799-23)

BTEX 8021B	mg,	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2012	ND	1.98	99.2	2.00	1.30	
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75	
Ethylbenzene*	< 0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09	
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67	
Surrogate: 4-Bromofluorobenzene (PIL	101	% 64.4-13	4	<u>-</u>					1300
Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	04/11/2012	ND	400	100	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	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	23.2	10.0	04/11/2012	ND	221	110	200	12.5	
Surrogate: 1-Chlorooctane	124 9	% 55.5-15	4						
Surrogate: I-Chlorooctadecane	154 9	% 57.6-15	8						

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Celeg D. Keene



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

Fax To:

(505) 397-0397

Received:

04/09/2012

Reported:

04/12/2012

Project Name: Project Number: AMAX 24 #8 CTB NONE GIVEN

128 %

57.6-158

Project Location:

C-29

Sampling Date:

04/06/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 6 @ 10' (H200799-24)

BTEX 8021B	mg,	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/11/2012	ND	1.98	99.2	2.00	1.30	
Toluene*	<0.050	0.050	04/11/2012	ND	2.09	105	2.00	1.75	
Ethylbenzene*	<0.050	0.050	04/11/2012	ND	2.10	105	2.00	2.09	
Total Xylenes*	<0.150	0.150	04/11/2012	ND	6.57	109	6.00	1.67	
Surrogate: 4-Bromofluorobenzene (PIL	99.4	% 64.4-13	4		-				
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	04/11/2012	ND	400	100	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	04/11/2012	ND	197	98.7	200	3.96	
DRO >C10-C28	<10.0	10.0	04/11/2012	ND	221	110	200	12.5	
Surrogate: 1-Chlorooctane	109 5	% 55.5-15	4						

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Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Celeg & Keene



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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Celey D. Keine

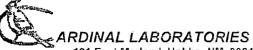


ARDINAL LABORATORIES

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

Company Name: BBC International, Inc.			BILL TO	ANALYSIS REQUEST
Project Manager: Cliff Brunson			P.O. #:	
Address: P.O. Box 805			Company:	
city; Hobbs State: NM zip: 88241			Attn: CANA	
Phone #: 575-397-6388 Fax #: 575-397-0397			Address:	
Project #:	Project Owner	r. 20	City:	
Project Name: American 29 Fr CTA		State: Zip:		
Project Location: 1992			Phone #:	
Sampler Name: Prant Brown to			Fax #:	
Lab I.D.	Sample I.D.	(G)17AB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SI LIDGE	PRESERV SAMPLING OTHER: OTHER: DATE DATE THE DA	TIME
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PLEASE NOTE: Lipsility and Durriages, Coronal's lipcility and client's exclusive remoty for any client arising whether based in contract or toff shall be I micen to the proposal paint of the analyses. All claims including those for negligence and any other cause with society wave our less made in writing and received by Cartaral warm 30 axys agencomplet on other explanate service. In necessary that Continued by labels for includination consequential damages, including without limitation consistes interruptions. It is society as the proposal paint of the society of the proposal paint of t				
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24 900	Acomosto Time:		REN	MARKS:
Relinquished By: Date: Received By:				
Relinquished By: Date: Received By: Phone Result: Yes No Add Fax #:				
Sampler - UPS - Bus - Other: Sompler - UPS - Bus - Other: No No No				

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST 2

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

	BBC International, Inc.						[制	* 1	B/I	LL TO	No.	11 (:				٠	ANA	LY:	SIS	RE	QUE	ST			
Project Manage	: Cliff Brunson							P.C). #:							T											
Address: P.O.	Box 805							Co	npa	any	:			1	Ī												
city: Hobbs	State: NM	Ziç): {	382	241			Att	n:		<	Z A	AF]													
Phone #: 575-3	397-6388 Fax #: 575	-39	7-0	39	7			Adı	dres	ss:	κ-		, 1,485]													İ
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Project Location	5 4 5							Pho	one	#:							1,1									1	
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Page 28 of 29

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	BBC Internation	nal, Inc.						1	3. ar	B	!/L	L TO							ANAI	YSIS	S RE	QUE	ST		
	: Cliff Brunson							P.0	O. #:							T									
Address: P.O.	Box 805							Co	mpa	iny:		***							ļ						i
city: Hobbs		State: NM	Zip	88	324	1		At	tn:]					Ì						
Phone #: 575-3	97-6388	Fax #: 575-	397	***************************************				Ad	ldres	ss:	مسمور پروست	SAA	The same												
Project #:		Project Owner	:	_0%	3.) Nj			Cit	ty:							Ì									
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FOR LAB USE ONLY				-		MAT	RIX		PRI	SER	٧.	SAMPLI	NG	1	7	_ .	1		1				i		
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Delivered By	: (Circle One)	1/0203.ttm	16	14	ستا <u>ا</u> ۔ s	ample	Cond	ایمار lition		CHE	لات CK	ED BY:	ľ												
	- Bus - Other:	<u>.</u>) کوئت	ر ز	-	ool Ye	Intac	t		(lijiti -	als)													

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



April 16, 2012

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: AMAX 24 #8 CTB

Enclosed are the results of analyses for samples received by the laboratory on 04/10/12 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey & Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To: (505) 397-0397

Received:

04/10/2012

Sampling Date:

04/09/2012

Reported:

04/16/2012

Sampling Type:

Soil S. Intro

Project Name:

AMAX 24 #8 CTB

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

C-29

Sample ID: SP 7 @ SURFACE (H200817-01)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2012	ND	2.05	102	2.00	3.62	
Toluene*	< 0.050	0.050	04/13/2012	ND	2.16	108	2.00	3.01	
Ethylbenzene*	<0.050	0.050	04/13/2012	ND	2.17	109	2.00	2.55	
Total Xylenes*	0.447	0.150	04/13/2012	ND	6.79	113	6.00	2.15	

Su	rrogate:	4-Bromo	fluoro	benzene	(PIL
----	----------	---------	--------	---------	------

116%

64.4-134

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	04/13/2012	ND	432	108	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	62.5	50.0	04/13/2012	ND	202	101	200	1.06	
	7890	50.0	04/13/2012	ND	198	99.0	200	6,49	

Surrogate: 1-Chlorooctane 114 % 55.5-154
Surrogate: 1-Chlorooctadecane 226 % 57.6-158

Cardinal Laboratories *=Accredited Analyte

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Celeg & Keine



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

Fax To: (505) 397-0397

Received:

04/10/2012

Sampling Date:

04/09/2012

Reported:

04/16/2012

Sampling Type:

Soil

Project Name:

AMAX 24 #8 CTB

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

C-29

Sample ID: SP 7 @ 1' (H200817-02)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2012	ND	2.05	102	2.00	3.62	
Toluene*	<0.050	0.050	04/13/2012	ND	2.16	108	2.00	3.01	
Ethylbenzene*	<0.050	0.050	04/13/2012	ND	2.17	109	2.00	2.55	
Total Xylenes*	<0.150	0.150	04/13/2012	ND	6.79	113	6.00	2.15	
Surrogate: 4-Bromofluorobenzene (PIL	105 9	% 64.4-13	4	-					
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP			18 1		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/13/2012	ND	432	108	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	04/13/2012	ND	202	101	200	1.06	
DRO >C10-C28	171	10.0	04/13/2012	ND	198	99.0	200	6.49	
Surrogate: 1-Chlorooctane	103 9	% 55.5-15	i4						
Surrogate: 1-Chlorooctadecane	107 9	% 57.6-15	8						

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Celey & Keene



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

Fax To: (505) 397-0397

Received:

04/10/2012

Sampling Date:

04/09/2012

Reported:

04/16/2012

Sampling Type:

Soil

Project Name:

AMAX 24 #8 CTB

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

C-29

Sample ID: SP 7 @ 3' (H200817-03)

BTEX 8021B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2012	ND	2.05	102	2.00	3.62	
Toluene*	<0.050	0.050	04/13/2012	ND	2.16	108	2.00	3.01	
Ethylbenzene*	<0.050	0.050	04/13/2012	ND	2.17	109	2.00	2.55	
Total Xylenes*	<0.150	0.150	04/13/2012	ND	6.79	113	6.00	2.15	
Surrogate: 4-Bromofluorobenzene (PIL	102	% 64.4-13	4						
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	04/13/2012	ND	432	108	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	04/13/2012	ND	202	101	200	1.06	
DRO >C10-C28	76.1	10.0	04/13/2012	ND	198	99.0	200	6.49	
Surrogate: 1-Chlorooctane	107	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	114	% 57.6-15	8						

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Celeg D. Keene



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

Fax To:

(505) 397-0397

Received: Reported: 04/10/2012

04/16/2012

Project Name:

AMAX 24 #8 CTB NONE GIVEN

Project Number: Project Location:

C-29

Sampling Date:

te: 04/09/2012

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SP 8 @ SURFACE (H200817-04)

BTEX 8021B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2012	ND	2.05	102	2.00	3.62	
Toluene*	<0.050	0.050	04/13/2012	ND	2.16	108	2.00	3.01	
Ethylbenzene*	0.085	0.050	04/13/2012	ND	2.17	109	2.00	2.55	
Total Xylenes*	0.571	0.150	04/13/2012	ND	6.79	113	6.00	2.15	
Surrogate: 4-Bromofluorobenzene (PIL	121 5	% 64.4-13	4						
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	04/13/2012	ND	432	108	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	76.6	50.0	04/13/2012	ND	202	101	200	1.06	
DRO >C10-C28	8000	50.0	04/13/2012	ND	198	99.0	200	6.49	
Surrogate: 1-Chlorooctane	124 !	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	229	% 57.6-15	8						

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Celey & Keine



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

(505) 397-0397 Fax To:

Received:

04/10/2012

Sampling Date:

04/09/2012

Reported:

Sampling Type:

Soil

Project Name:

04/16/2012 AMAX 24 #8 CTB

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

C-29

Sample ID: SP 8 @ 1' (H200817-05)

BTEX 8021B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2012	ND	2.05	102	2.00	3.62	
Toluene*	<0.050	0.050	04/13/2012	ND	2,16	108	2.00	3.01	
Ethylbenzene*	<0.050	0.050	04/13/2012	ND	2.17	109	2.00	2.55	
Total Xylenes*	<0.150	0.150	04/13/2012	ND	6.79	113	6.00	2.15	
Surrogate: 4-Bromofluorobenzene (PIL	104 9	% 64.4-13	4						
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	04/13/2012	ND	432	108	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	04/13/2012	ND	202	101	200	1.06	
DRO >C10-C28	135	10.0	04/13/2012	ND	198	99.0	200	6.49	
Surrogate: 1-Chlorooctane	108 5	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	115	% 57.6-15	8						

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Celeg D. Keine



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

Fax To:

(505) 397-0397

Received:

04/10/2012

Reported:

04/16/2012

Project Name:

AMAX 24 #8 CTB NONE GIVEN

Project Number: Project Location:

C-29

Sampling Date:

04/09/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 8 @ 3' (H200817-06)

BTEX 8021B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	04/13/2012	ND	2.05	102	2.00	3.62	
Toluene*	<0.050	0.050	04/13/2012	ND	2.16	108	2.00	3.01	
Ethylbenzene*	<0.050	0.050	04/13/2012	ND	2.17	109	2.00	2.55	
Total Xylenes*	<0.150	0.150	04/13/2012	ND	6.79	113	6.00	2.15	
Surrogate: 4-Bromofluorobenzene (PIL	104	% 64.4-13	4						_
Chloride, SM4500CI-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	04/13/2012	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	04/13/2012	ND	202	101	200	1.06	
DRO >C10-C28	161	10.0	04/13/2012	ND	198	99.0	200	6.49	
Surrogate: 1-Chlorooctane	107	% 55.5-15	i4			,			
Surrogate: I-Chlorooctadecane	115	% 57.6-15	8						

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Celeg D. Keine



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

Fax To: (505) 397-0397

Received: Reported: 04/10/2012

04/16/2012

Project Name: Project Number: AMAX 24 #8 CTB NONE GIVEN

Project Location:

C-29

Sampling Date:

04/09/2012

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SP 9 @ SURFACE (H200817-07)

BTEX 8021B

Analyzed By: AP mg/kg

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2012	ND	2.05	102	2.00	3.62	
Toluene*	< 0.050	0.050	04/13/2012	ND	2.16	108	2.00	3.01	
Ethylbenzene*	<0.050	0.050	04/13/2012	ND	2,17	109	2.00	2.55	
Total Xylenes*	<0.150	0.150	04/13/2012	ND	6.79	113	6.00	2.15	

Surrogate: 4-Bromofluorobenzene (PIL

109 %

64.4-134

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP				RPD 0.00	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/13/2012	ND	432	108	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	<100	100	04/13/2012	ND	202	101	200	1.06	
DRO >C10-C28	4690	100	04/13/2012	ND	198	99.0	200	6.49	

Surrogate: 1-Chlorooctane

123 %

55.5-154

Surrogate: 1-Chlorooctadecane

146 %

57.6-158

Cardinal Laboratories *=Accredited Analyte

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Celeg & Keene



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

Fax To: (505) 397-0397

Received:

04/10/2012

Sampling Date:

04/09/2012

Reported:

BTEX 8021B

04/16/2012

Sampling Type:

Soil

Project Name:

Surrogate: 1-Chlorooctane

AMAX 24 #8 CTB

mg/kg

Sampling Condition: Sample Received By:

Cool & Intact Jodi Henson

Project Number:

NONE GIVEN

Project Location:

C-29

Sample ID: SP 9 @ 1' (H200817-08)

BIEX 80218	nig/	ky	Allaly26	u by. Ar					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	04/13/2012	ND	2.05	102	2.00	3.62	
Toluene*	< 0.050	0.050	04/13/2012	ND	2.16	108	2.00	3.01	
Ethylbenzene*	<0.050	0.050	04/13/2012	ND	2.17	109	2.00	2.55	
Total Xylenes*	<0.150	0.150	04/13/2012	ND	6.79	113	6.00	2.15	
Surrogate: 4-Bromofluorobenzene (PIL	107 9	% 64.4-13	4				· ·		•
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	04/13/2012	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	04/13/2012	ND	202	101	200	1.06	
DRO >C10-C28	91.5	10.0	04/13/2012	ND	198	99.0	200	6.49	

55.5-154

Analyzed By: AP

Surrogate: 1-Chlorooctadecane 92.3 % 57.6-158

104%

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Celeg D. Keine



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

Fax To:

(505) 397-0397

Received:

04/10/2012

Reported:

DRO >C10-C28

04/16/2012

Project Name:

AMAX 24 #8 CTB NONE GIVEN

Project Number: Project Location:

C-29

22.4

Sampling Date:

04/09/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By: Jodi Henson

Sample ID: SP 9 @ 3' (H200817-09)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2012	ND	2.05	102	2.00	3.62	
Toluene*	<0.050	0.050	04/13/2012	ND	2.16	108	2.00	3.01	
Ethylbenzene*	<0.050	0.050	04/13/2012	ND	2.17	109	2.00	2.55	
Total Xylenes*	<0.150	0.150	04/13/2012	ND	6.79	113	6.00	2.15	
Surrogate: 4-Bromofluorobenzene (PIL	102	% 64.4-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/13/2012	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	04/13/2012	ND	202	101	200	1.06	

ND

198

99.0

200

6.49

Surrogate: 1-Chlorooctane 107 % 100 % Surrogate: 1-Chlorooctadecane

55.5-154 57.6-158

10.0

Cardinal Laboratories *=Accredited Analyte

04/13/2012

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 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 be deemed within thirty (30) days after completion of the applicable service. In no event shall be deemed by Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiants, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey & Keene



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.

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

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

Celey & Keine

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:	BBC International, Ir	nc.					7	in. Asi	ন এক	E	31L	L TO	<u> </u>					ANA	LYSIS	S RE	QUE	ST			/
Project Manager:	: Cliff Brunson							P.O.			_														
Address: P.O.	Box 805					-		Cor	mpar	ny:				.											1 1
city: Hobbs	s	state: NM Zi	p: 8	3824	11		/	Attn: Siple			~i2_	i l											1 1		
Phone #: 575-3	97-6388 Fa	x #: 575-39)7-0°	397				Ada	dress	s:											ļ !			1 1	
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Relinquished By	y:D	Date: JS JO	₹eçe	ived	Ву:		7	ŕ																	

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

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

#26

Sample Condition



September 18, 2012

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: AMAX #24

Enclosed are the results of analyses for samples received by the laboratory on 09/10/12 16:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celeg & 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: (505) 397-0397

Received:

09/10/2012 09/18/2012

Sampling Date: Sampling Type: 09/10/2012 Soil

Reported: Project Name: **AMAX** #24 NONE GIVEN

Sampling Condition:

Cool & Intact

Project Number: Project Location:

Sample Received By:

Jodi Henson

HWY C-29

Sample ID: SP 1 @ 4' (H202189-01)

Chloride,	SM4500C1-B
-----------	------------

noride, SM45UUCI-B	mg/k	g
A 1: 4-	Doguda	0

Anal	lyzed	By:	нм	

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/14/2012	ND	416	104	400	0.00	

Sample ID: SP 1 @ 5' (H202189-02)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/14/2012	ND	416	104	400	0.00	

Sample ID: SP 2 @ 3' (H202189-03)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/14/2012	ND	416	104	400	3.77	

Sample ID: SP 2 @ 4' (H202189-04)

Chloride, SM4500CI-B	mg/kg		Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/14/2012	ND	416	104	400	3.77	

Cardinal Laboratories *=Accredited Analyte

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Celey & Keene



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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Celeg & Keine

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM, 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

				·
BIL	LTO	ANAI	YSIS REQUE	ST
P.O. #:				
Company:				
241 Attn:	AINS			
7 Address:	7 10110			
City:				-
State: Z	ip:			
Phone #:				
Fax#:				
WASTEWATER SOIL OIL OIL SLUDGE OTHER: ACIDIBASE: CE/COOL OTHER:	DATE TIME 1-10-12-930 1-10-12-930			÷
less made in writing and received by Cardinal with business interruptions, less of use, or less of profit of whether filth daim is based upon any of the a By: By:	in 30 days after completion of the applicables incurred by cford, its substitutions, once statled reasons or otherwise. Phone Result: \(\)			
	P.O. #: Company: 241 Attn: 7 Address: City: State: Z Phone #: Fax #: MATRIX PRESERV. WATRIX ompany: Attn: Address: City: State: Zip: Phone #: Fax #: MATRIX PRESERV SAMPLING WILLY DO NOT BE TIME OO NOT BE TIME OO NOT SO OF SAMPLING AND SAMPLING OO NOT SO OF SAMPLING OO NOT SO OF SAMPLING OO NOT SO OF SAMPLING OO NOT SAM	P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #: MATRIX PRESERV SAMPLING WIND DO DO G G G G G G G G G G G G G G G G	ANALYSIS REQUE P.O. #: Company: Attn: 7	



September 16, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: AMAX 24 #8 CTB

Enclosed are the results of analyses for samples received by the laboratory on 09/11/13 9:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To: (575) 397-0397

Received:

09/11/2013

Sampling Date:

09/10/2013

Reported:

09/16/2013

Sampling Type:

Soil

Project Name:

AMAX 24 #8 CTB

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

Surrogate: 1-Chlorooctadecane

Cardinal Laboratories

C-29

Sample ID: SIDE WALL #1 (H302197-01)

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	09/12/2013	ND	2.21	110	2.00	3.41	
Toluene*	<0.050	0.050	09/12/2013	ND	2.24	112	2.00	3.30	
Ethylbenzene*	<0.050	0.050	09/12/2013	ND	2.27	114	2.00	3.78	
Total Xylenes*	< 0.150	0.150	09/12/2013	ND	6.83	114	6.00	3.82	
Total BTEX	<0.300	0.300	09/12/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIC	102	% 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	09/12/2013	ND	400	100	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	09/13/2013	ND	202	101	200	1.28	
DRO >C10-C28	<10.0	10.0	09/13/2013	ND	198	98.9	200	0.838	
Surrogate: 1-Chlorooctane	83.1	% 65.2-14	0						

63.6-154

83.7 %

*=Accredited Analyte

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Celey & Kure



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

Fax To:

(575) 397-0397

Received:

09/11/2013

Sampling Date: Sampling Type: 09/10/2013

Soil

Reported:

09/16/2013 AMAX 24 #8 CTB

Sampling Condition:

Cool & Intact

Project Name: Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

C-29

Sample ID: SIDE WALL #2 (H302197-02)

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	09/12/2013	ND	2.21	110	2.00	3.41	
Toluene*	<0.050	0.050	09/12/2013	ND	2.24	112	2.00	3.30	
Ethylbenzene*	<0.050	0.050	09/12/2013	ND	2.27	114	2.00	3.78	
Total Xylenes*	<0.150	0.150	09/12/2013	ND	6.83	114	6.00	3.82	
Total BTEX	<0.300	0.300	09/12/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103	% 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	80.0	16.0	09/12/2013	ND	400	100	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	09/13/2013	ND	202	101	200	1.28	
DRO >C10-C28	<10.0	10.0	09/13/2013	ND	198	98.9	200	0.838	
Surrogate: 1-Chlorooctane	82.8	% 65.2-14	0			.,	- <u>-</u> -		
Surrogate: 1-Chlorooctadecane	84.9	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celey E. Keine



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

(575) 397-0397 Fax To:

Received:

09/11/2013

Sampling Date:

09/10/2013

Reported:

09/16/2013

Sampling Type:

Soil

Project Name:

AMAX 24 #8 CTB

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

C-29

Sample ID: SIDE WALL #3 (H302197-03)

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	09/12/2013	ND	2.21	110	2.00	3.41	
Toluene*	<0.050	0.050	09/12/2013	ND	2.24	112	2.00	3.30	
Ethylbenzene*	<0.050	0.050	09/12/2013	ND	2.27	114	2.00	3.78	
Total Xylenes*	<0.150	0.150	09/12/2013	ND	6.83	114	6.00	3.82	
Total BTEX	<0.300	0.300	09/12/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 5	% 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	09/12/2013	ND	400	100	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	09/13/2013	ND	202	101	200	1.28	
DRO >C10-C28	<10.0	10.0	09/13/2013	ND	198	98.9	200	0.838	
Surrogate: 1-Chlorooctane	90.2	% 65.2-14	0	- · · · · · · · · · · · · · · · · · · ·					
Surrogate: 1-Chlorooctadecane	91.6	% 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 whatspeever 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 cleint, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise, Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey & Keine



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

Fax To: (575) 397-0397

Received:

09/11/2013

Sampling Date:

09/10/2013

Reported:

09/16/2013

Sampling Type:

Soil

Project Name:

AMAX 24 #8 CTB

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

85.3 %

63.6-154

Sample Received By:

Jodi Henson

Project Location:

C-29

Sample ID: SIDE WALL #4 (H302197-04)

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	09/12/2013	ND	2.21	110	2.00	3.41	
Toluene*	<0.050	0.050	09/12/2013	ND	2.24	112	2.00	3.30	
Ethylbenzene*	<0.050	0.050	09/12/2013	ND	2.27	114	2.00	3.78	
Total Xylenes*	< 0.150	0.150	09/12/2013	ND	6.83	114	6.00	3.82	
Total BTEX	<0.300	0.300	09/12/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIE	1049	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	96.0	16.0	09/12/2013	ND	400	100	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
	-10.0	10.0	09/13/2013	ND	202	101	200	1.28	
GRO C6-C10	<10.0	10.0							

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Celeg E. Keene



ND

Notes and Definitions

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories *=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 whatboever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey L. Keine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name: RR Intermitional	######################################	ANALYSIS REQUEST
Project Manager: (ILL Barnson	P.O. #:	
Address: 1324 w. Alma land	Company:	
City: HOBBS State: NN Zip: 88040	Attn:	
Phone #: 5976388 Fax #:	Address: SAME	
Project #: Project Owner:	City:	
Project Name: Amax 24 #8	State: Zip:	
Project Location: C29	Phone #:	
Sampler Name: POGER HERNANCEZ	Fax#:	
Lab I.D. Sample I.D. #303197 # CONTAINERS GROUNDWATER WASTEWATER Soil.	PRESERV SAMPLING OTHER: OTHE	
2 #2 6/1 /	1 910 13310	
3 #3 6 / 1	0 9.10.18 350 000	
44 61 0	V 9.10.13 350 C C	
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PLEASE NOTE: Liability and Damagea. Cardinafa liability and clients exclusive remedy for any dalm arising whether based in cor analyses. All claims including those for negligence and any other cause whatsoever shall be deemed walved unless made in writine service. In no event shall Cardinal be liable for incidental or consequental damages, including without initiation, business interruption.	and received by Cardinal within 30 days after completion of the applicable	•
aditions or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such or Relinquished By: Received By:	In its based upon any of the above stated reasons or otherwise. Phone Result:	No Add'l Phone #:
9:15 Jodi J	Fax Result:	
Refinquished By: Date: Received By: Time:		
Delivered By: (Circle One) Sampler - UPS - Bus - Other: Sampler - UPS - Bus - Other:	ition CHECKED BY: (a) (a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	



September 24, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: AMAX 24 #8 CTB

Enclosed are the results of analyses for samples received by the laboratory on 09/19/13 17:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.qov/field/qa/lab accredited certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey & Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

(575) 397-0397 Fax To:

Received: Reported: 09/19/2013

09/24/2013

Project Name: Project Number: AMAX 24 #8 CTB NONE GIVEN

Project Location:

C-29

Sampling Date:

09/19/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: BOTTOM SAMPLE (H302293-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					A-01a
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2013	ND	1.90	95.0	2.00	8.98	
Toluene*	<0.050	0.050	09/23/2013	ND	2.01	100	2.00	8.85	
Ethylbenzene*	< 0.050	0.050	09/23/2013	ND	2.11	105	2.00	8.63	
Total Xylenes*	<0.150	0.150	09/23/2013	ND	6.35	106	6.00	8.10	
Total BTEX	<0.300	0.300	09/23/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	129 %	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	368	16.0	09/24/2013	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/21/2013	ND	200	100	200	0.330	
DRO >C10-C28	75.6	10.0	09/21/2013	ND	193	96.4	200	1.85	
Surrogate: 1-Chlorooctane	1049	65.2-14	0						
Surrogate: 1-Chlorooctadecane	113 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 ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in whiting 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 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.

Celeg & Keine



Notes and Definitions

A-01a Surrogates failed QC limits, High. No target compounds detected above PQL.

A-01 BFB surrogate failed high. No target compounds detected in associated samples.

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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Celeg & Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name	BBC International Inc.						F							ANAI	LYSIS	RE	QUE	5T 💮			
Project Managei	: Cliff Brunson		N., 12	ag jay		P.Q.	#;		海湖水		10.00							1997			
Address: P.O.	Box 805				以表现	Com	ipany:														
city: Hobbs	State: NM	Zip:	882	41		Attn		na viete. Stricken													
Phone #: 575-3		5-397-	27. 1. T.21			Addi	ress:	SAMA													
Project #:	Project Own					City:	853 W. T.	777	1000	T											
Project Name:	Ama k 24 # 8	400				State	EMARY SAM	Zip:													
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Project Location	Page Harmy	60	similar Distric	FEWER C		Fax	44.4 W. S							ا الدو							7. S.
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1 Cardinal cannot accept verbal changes. Please fax written changes to 505-393-246

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

Sample Condition Cool Intact Ites Ites

Kathy Purvis

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

Sent: Friday, January 25, 2013 11:50 AM

To: Cliff P. Brunson

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

Subject: RE: Oxy-Amax 24 #8 Central Tank Battery-Remediation Plan

Reference: OXY USA * AMAX 24 Federal 8 * 30-015-27162 * L-24-23s-31e * Eddy County, New Mexico

NMOCD Reference Number: 2RP-1080 * Date of release: 1/24/12

Cliff,

Your proposal for remediation of the above referenced release is approved. The site is situated on federal surface and may require like approval from BLM.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, please contact me.

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

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

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

Sent: Tuesday, January 22, 2013 8:37 AM

To: Bratcher, Mike, EMNRD

Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis **Subject:** Oxy-Amax 24 #8 Central Tank Battery-Remediation Plan

Mike,

This e-mail is to confirm our discussion on January 14, 2013 concerning the remediation plan for the release that occurred at the Oxy Amax 24 #8 Central Tank Battery. I have attached the site drawing and the summary of the laboratory data we reviewed during our discussion for your files. As agreed, Oxy will excavate 2 feet in the areas covered by SP1, SP2, and SP3 and will excavate to 1 foot in depth in the areas covered by SP4 and SP5. In the area of SP6, Oxy will excavate to 3 feet and then will take confirmation sidewall samples and analyze the samples for TPH, BTEX, and Chloride. In the areas of SP7, SP8, and SP9, Oxy will excavate 6 inches in depth. The site will then be backfilled with clean soil. The depth to groundwater is this area is approximately 200 feet.

If you would please reply back via e-mail with your concurrence of this remediation plan, it would be greatly appreciated.

Oxy and I thank you for your assistance in handling this matter.

Thanks, Cliff

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

E-Mail: cbrunson@bbcinternational.com

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Kathy Purvis

From: Ken Swinney <kswinney@bbcinternational.com>

Sent: Tuesday, April 02, 2013 11:03 AM

To: 'Kathy Purvis'

Subject: FW: remediation plans on the Cedar canyon 28-4 and Amax 24 -8`

From: Van Curen, Jennifer [mailto:jvancure@blm.gov]

Sent: Monday, March 25, 2013 12:11 PM

To: Chancey Summers; kswinney@bbcinternational.com; Jennifer Gilkey; Brunson **Subject:** Re: remediation plans on the Cedar canyon 28-4 and Amax 24 -8`

With the Amex plan, these are the minimal depths. There will need to be bottom and side samples for closure. I would think that the depths might need to be a foot on each area except the 7-9 which my thoughts are a foot. But if you get good results from the followup samples, we can back fill. It will be monitored that there are higher results at a lower depth from a past event, but if the OCD is not concerned with the lower depths, it is not a problem with the surface unless it prevents vegetation growth. If you have any questions please let me know.

JENNIFER E VAN CUREN ENVIRONMENTAL PROTECTION SPECIALIST DOI-BLM-CARLSBAD FIELD OFFICE 320 E GREENE ST. CARLSBAD, NM 88220

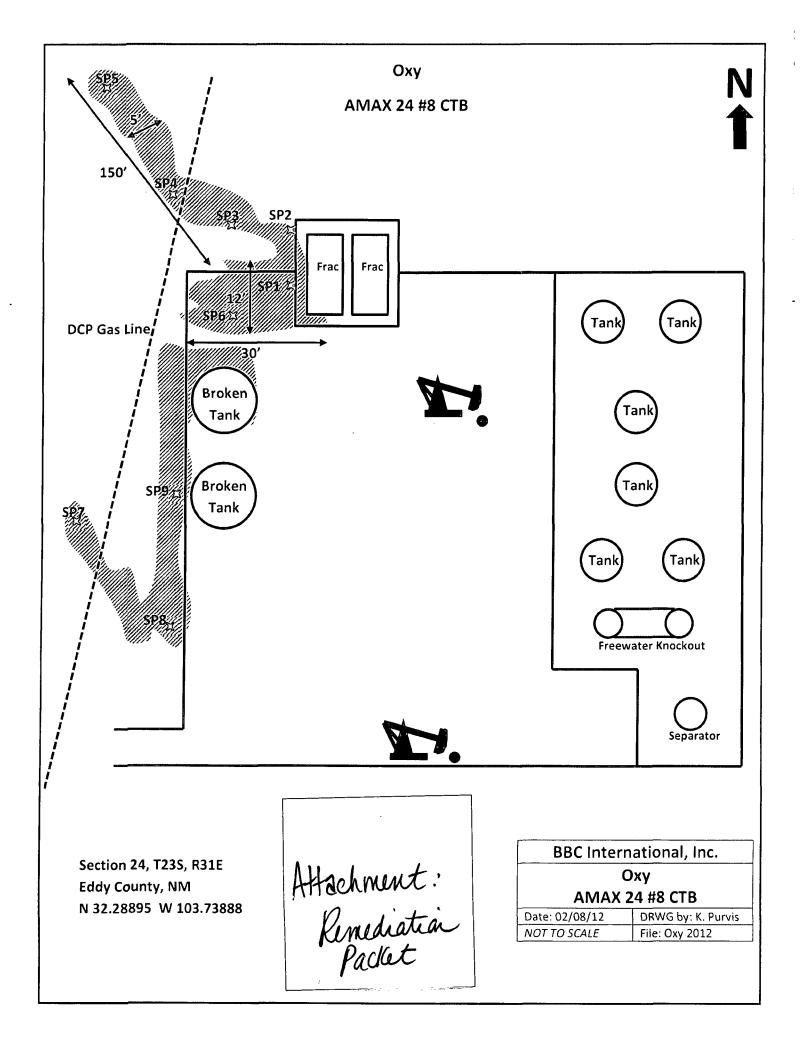
OFFICE- 575-234-5905 CELL - 575-361-0042 FAX - 575-234-5927

On Mon, Mar 11, 2013 at 1:31 PM, Van Curen, Jennifer < jvancure@blm.gov> wrote:

This is the first that I have heard of the Amax 24-8 spill. I will need to review it. The Cedar Canyon I visited. This site also has some salt impacted soils on the north and south of the old pit area. I would also like to see this area addressed simultaneously. The berm along that edge will need to be removed due to be heavily salt impacted. Can you get back to me on this please? Thanks

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

OFFICE- 575-234-5905 CELL - 575-361-0042 FAX - 575-234-5927



Laboratory Analytical Results Summary Amax 24 #8 CTB

		Sample	SP1 @ Surface	SP1 @ 2 ft	SP1 @ 3 ft	SP2 @ Surface	SP2 @ 2 ft	SP3 @ Surface	SP3 @ 2 ft	SP3 @ 5 ft	SP3 @ 8 ft	SP3 @ 9 ft	SP3 @ 10 ft
Analyte	Method	Date	4/4/12	4/4/12	4/4/12	4/4/12	4/4/12	4/4/12	4/4/12	4/4/12	4/4/12	4/4/12	4/6/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	< 0.050	< 0.050	< 0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	0.793	<0.050	0.175	<0.050	<0.050	<0.050	<0.050	< 0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	1.23	<0.050	1.27	<0.050	< 0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B	ľ	<0.150	<0.150	<0.150	5.05	<0.150	5.48	<0.150	<0.150	<0.150	<0.150	<0.150
Chloride	SM4500CI-B		864	128	1280	48.0	6960	<16.0	880	2760	160	128	80.0
GRO	TPH 8015M		<10.0	<10.0	<10.0	98.4	<10.0	367	<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		59.5	195	123	159	<10.0	16000	38.5	140	<10.0	<10.0	<10.0

		Sample	SP4 @ Surface	SP4 @ 2 ft	SP4 @ 5 ft	SP4 @ 7 ft	SP5 @ Surface	SP5 @ 2 ft	SP5 @ 4 ft	SP5 @ 6 ft	SP6 @ Surface	SP6 @ 2 ft	SP6 @ 5 ft	SP6 @ 8 ft	SP6 @ 10 ft
Analyte	Method	Date	4/6/12	4/6/12	4/6/12	4/6/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/5/12	4/6/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	< 0.050	<0.050	<0.050
Toluene	BTEX 8021B		0.272	<0.050	<0.050	<0.050	0.212	<0.050	<0.050	<0.050	0.589	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		1.78	<0.050	<0.050	<0.050	1.56	<0.050	<0.050	<0.050	2.14	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		7.24	<0.150	<0.150	<0.150	6.91	<0.150	<0.150	<0.150	8.52	<0.150	<0.150	<0.150	<0.150
Chloride	SM4500CI-B		<16.0	<16.0	32.0	128.0	<16.0	16.0	32.0	80.0	1760	1640	1870	2800	80.0
GRO	TPH 8015M		380	<10	<10	<10	473	<10.0	<10.0	<10.0	480	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		15500	35.7	24.8	<10	18800	<10.0	<10.0	<10.0	13600	37.5	<10.0	23.2	<10.0

2nd sampling ev	vent	Sample	SP7 @ Surface	SP7 @ 1'	SP7 @ 3'	SP8 @ Surface	SP8 @ 1'	SP8 @ 3'	SP9 @ Surface	SP9 @ 1'	SP9 @ 3'
Analyte	Method	Date	4/9/12	4/9/12	4/9/12	4/9/12	4/9/12	4/9/12	4/9/12	4/9/12	4/9/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	< 0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	0.085	<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.447	<0.150	<0.150	0.571	<0.150	<0.150	<0.150	<0.150	<0.150
Chloride	SM4500CI-B		32	<16.0	48	16.0	<16.0	32	16	<16.0	48
GRO	TPH 8015M		62.5	<10.0	<10.0	76.6	<10.0	<10.0	<100	<10.0	<10.0
DRO	TPH 8015M		7890	171	76.1	8000	135	161	4690	91.5	22.4

Confirmation Ch	loride Sampling	Sample	SP1 @ 4'	SP1 @ 5'	SP2 @ 3'	SP2 @ 4'
Analyte	Method	Date	9/10/12	9/10/12	9/10/12	9/10/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		<16.0	<16.0	<16.0	>16.0



⇔ Location

OCD

Groundwater Plot

Oxy AMAX 24 #8 CTB

Township Range **Unit Letter** Section County **23S** 31E 24 Eddy Trend Map 200' R31E R32E Located T23S T23S R31E R32E

OUSGS

OSEO

O All Databases



Section Quarters

Oxy AMAX 24 #8 CTB

County Eddy Unit Letter

Section 24

Township 23S Range 31E

Trend Map 200'

1

2

NW/NW	NE/NW	NW/NE	NE/NE
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O All Databases

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003

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

Attached 🔲

Release Notification and Corrective Action OPERATOR ☐ Initial Report Final Report Oxy Permian Ltd. Contact Chancey Summers Name of Company 1017 W. Stanolind Road; Hobbs, NM 88240 575-397-8216 Address Telephone No. AMAX 24 #8 CTB Facility Type Facility Name Gathering Mineral Owner Surface Owner BLM Lease No. LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County 31E 24 23S Eddy County, NM Latitude 32.28895 Longitude 103.73888 NATURE OF RELEASE Type of Release Oil & Produced water Volume of Release 30 bbls Volume Recovered End Cap Leak on rental Frac Tank Date and Hour of Occurrence Date and Hour of Discovery Source of Release 01/24/2012 @ 9:35 a.m. Was Immediate Notice Given? If YES, To Whom? ☐ Yes ☒ No ☐ Not Required Mike Bratcher-OCD, James Amos- BLM By Whom? Chancey Summers Date and Hour 02/16/2012 @ 11:33 a.m. If YES, Volume Impacting the Watercourse. Was a Watercourse Reached? ☐ Yes ⊠ No If a Watercourse was Impacted, Describe Fully.* OCT 1 7 2013 Describe Cause of Problem and Remedial Action Taken.* A failure of the end cap on a frac tank caused 30 bbls of oil and produced water to leak. The end cap was replaced. NMOCD ARTESIA Describe Area Affected and Cleanup Action Taken.* Remediate to NMOCD guidelines. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature: Approved by District Supervisor: Printed Name: Chancey Summers Title: HES Specialist Approval Date: **Expiration Date:** E-mail Address: chancey summers@oxy.com Conditions of Approval:

Phone: (575) 397-8216

Date: 3-22-12
* Attach Additional Sheets If Necessary