HOBBS OCD

District I 1625 N. French Dr., Hobbs, NM 88240 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 MAR 2 7 2014

Form C-141 Revised October 10, 2003

Oil Conservation Division 1220 South St. Francis Dr. Conta Da NIM 07505

RECEIVED

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

				38	anta F	e, NM 8/3	105					
			Rele	ease Notific	catio	n and Co	orrective A	ction	1			
						OPERA'	ror		☐ Initi	al Report	\boxtimes	Final Report
Name of Co	ompany	Oxy Permia	n Ltd.			Contact C	J Summers			-		
		tanolind Rd,		MM		Telephone l		-8216				
Facility Na		n Mattix Uni				Facility Typ						
Surface Ow	mer BLM			Mineral C	wner			-	API No	30-025-2	20298	
				LOCA	ATIO	N OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/V	West Line	County		
G	15	24S	37E	1980'		N	1980'		E	Lea Co.		
	10	210		Latitude					~	200 00.		
								_				
Type of Rele	ease Oil a	nd produced v	vater	NAT	UKE	Volume of			Volume	Recovered	0 bbls	
Type of Reic	asc On a	na produced v	vator				13 bbls produced	water	v ordine i	CCCOVCICI	0 0013	
Source of Re	elease 1" st	eel line to pre	ssure swit	ch at wellhead		Date and H 08/12/2013	Iour of Occurrence	e	Date and	Hour of Dis	covery	
Was Immedi	ate Notice (If YES, To						
		\boxtimes	Yes	No Not Re	equired	Geoffrey L	eking- NMOCD,	Jennife	r Van Cure	n and James	Amos	- BLM
By Whom?							lour 08/13/2013					
Was a Water	course Read		Yes 🛛	No		If YES, Vo	lume Impacting t	he Wate	ercourse.			
If a Watercon	urse was Im	pacted, Descri	be Fully.*									
Describe Car	ise of Problem	em and Remed	Nial Action	Taken *				_				
The failure o	f an one inc		pressure s	witch at the wellh	iead rel	eased 7 bbls o	f oil and 13 bbls o	of produ	ced water	onto the gro	und. N	o fluids were
Describe Are	a Affected	and Cleanup A	ction Tak	en.*							-	
				asture. Remediati ed by Jennifer Va						approved b	y Geoff	rey Leking
regulations a public health should their cor or the environ	Il operators or the envir operations h nment. In a	are required to conment. The ave failed to a	report an acceptance dequately CD accept	is true and compled/or file certain ree of a C-141 repoinvestigate and retance of a C-141 repoinvestigate.	clease nort by the emediat	otifications ar e NMOCD ma e contamination	nd perform correct arked as "Final Re	tive acti eport" d	ons for reli	eases which eve the ope	may en	danger liability
Signature:			1	<i>)</i>			APF	P	$\mathbf{R}\mathbf{O}$	V	E	D
Printed Name	e: Chance	y Summers				Appro						
Title: HES	Specialist					Approval Dat	e: 2/3/1	6 1	Expiration 1	Date:	14	
E-mail Addre		cey.Summers(@oxy.com			Conditions of	Approval:			Attached		
Date: 3	-24	-14	Pho	ne: (575) 397-821	6					1		

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. side of form Santa Fe, NM 87505

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

Form C-141 Revised October 10, 2003

Release Notification and Corrective Action

Name of Comp						OPERA	TOR		✓ Initi	al Report		Final Re
1 1 1 101		Oxy Permia					CJ Summers					
		tanolind Rd,				Telephone I		-8216				
Facility Name	South	Mattix Uni	t Fed #17			Facility Typ	e					
Surface Owner	BLM			Mineral ()wner				API No	o. 30-025-2	20298	
				LOCA	ATIO	N OF REI	LEASE					
Jnit Letter Se	ection	Township	Range	Feet from the		South Line	Feet from the	East/	West Line	County		
G	15	24S	37E	1980'		N	1980'		E	Lea Co.		
				Latitude		Longit	ude					
				NAT	URE	OF RELI	EASE					
Type of Release	Oil ar	nd produced v	vater			Volume of			Volume F	Recovered	0 bbls	S
Source of Release	e 1" et	el line to pre	centra curit	h at wellhead			13 bbls produced four of Occurrence		Data and	Hour of Dise	aariam	
			SSUITE SWILL	at woillieau		08/12/2013			Date and	LIOUI OI DIS	covery	
Was Immediate N	Notice G		V	N- CN-		If YES, To	Whom?	T 10		1		DILL
		×	Yes	No Not Re	equired	Geoffrey L	eking- NMOCD,	Jennife	r Van Cure	en and James	Amos	s- BLM
By Whom? Ra							lour 08/13/2013					***
Vas a Watercour	se Reac		Yes 🛛	No		If YES, Vo	lume Impacting t	he Wat	ercourse.			
f a Watercourse												
Describe Cause of the failure of an ecovered and the	one inch	steel line to	pressure s		nead rele	ased 7 bbls of	f oil and 13 bbls o	of produ	iced water (onto the grou	and. N	To fluids we
he failure of an	one inch	steel line to s repaired/rep	pressure solaced.	witch at the wellh	nead rele	ased 7 bbls of	f oil and 13 bbls o	of produ	iced water o	onto the grou	and. N	To fluids we
the failure of an ecovered and the Describe Area Af	one inche line wa	n steel line to ss repaired/rep and Cleanup A	pressure solaced.	witch at the wellh			f oil and 13 bbls of					
The failure of an ecovered and the ecovered and the ecovered and the ecovered and the escribe Area Affice affected area are BLM. The affected area are BLM. The environment of the ecovered and	one inche line was are the mat the inerators a he environs hant. In all	n steel line to a repaired/repaired/repaired/repaired/repaired formation giver required to comment. The type failed to a dition, NMO	pressure solaced. Action Take and the payone above oreport an acceptance dequately CD accept	witch at the wellh en.* Isture. Remediati is true and compl d/or file certain rue of a C-141 repo investigate and re	lete to the elease no	be completed the best of my otifications and NMOCD ma		nderstar tive acti eport" deat to gr	nediation pl nd that purs ions for rele loes not reli round water	suant to NMO eases which i	OCD romay en	MOCD and ules and ndanger Fliability man health
The failure of an ecovered and the ecovered and the ecovered and the ecovered and the escribe Area Affice affected area are BLM. The affected area are BLM. The equipment of the ecovered area are blue ecovered area are blue.	one inche line was are the mat the inerators a he environs hant. In all	n steel line to a repaired/repaired/repaired/repaired/repaired formation giver required to comment. The type failed to a dition, NMO	pressure solaced. Action Take and the payone above oreport an acceptance dequately CD accept	witch at the wellh en.* Isture. Remediati is true and compl d/or file certain rue of a C-141 repo investigate and re	lete to the elease no	be completed the best of my otifications and NMOCD ma	in accordance wi knowledge and und perform correcurked as "Final Room that pose a three	nderstar tive acti eport" d eat to gr	nediation pl nd that purs ions for rele loes not reli round water bility for co	suant to NMC eases which in eve the open r, surface was ompliance w	OCD remay er ator of ter, hu ith any	MOCD and ules and ndanger Fliability man health
The failure of an ecovered and the ecovered and the ecovered and the ecovered and the escribe Area Africa and BLM. The affected area are BLM. The environment of the environment of the environment ederal, state or the ecovered and the ecovered ederal and the ecovered ederal and the ecovered ederal ecovered ecovered ederal ecovered ecove	one inche line was are the mat the inerators a he environs hant. In all	n steel line to a repaired/repaired/repaired/repaired/repaired formation giver required to comment. The type failed to a dition, NMO	pressure solaced. Action Take and the payone above oreport an acceptance dequately CD accept	witch at the wellh en.* Isture. Remediati is true and compl d/or file certain rue of a C-141 repo investigate and re	lete to the elease no	be completed the best of my otifications and NMOCD ma	in accordance wi knowledge and und perform correcurked as "Final Roon that pose a three the operator of r	nderstar tive acti eport" d eat to gr	nediation pl nd that purs ions for rele loes not reli round water bility for co	suant to NMC eases which in eve the open r, surface was ompliance w	OCD remay er ator of ter, hu ith any	MOCD and ules and ndanger Fliability man health
The failure of an ecovered and the ecovered and the ecovered and the ecovered and the ecovered area as a BLM. The affected area are BLM. The environment of the environment of the environment ederal, state or the ecovered ecove	one inche line was are the nat the irrerators a he environs hant. In addical law	n steel line to a repaired/repaired/repaired/repaired/repaired formation giver required to comment. The type failed to a dition, NMO	pressure solaced. Action Take and the payone above oreport an acceptance dequately CD accept	witch at the wellh en.* Isture. Remediati is true and compl d/or file certain rue of a C-141 repo investigate and re	lete to the clease nort by the emediate report do	be completed the best of my obtifications and NMOCD mate contaminations not relieve	in accordance wi knowledge and und perform correcurked as "Final Roon that pose a three the operator of r	nderstar tive active ac	nediation pl nd that purs ions for rele loes not reli round water bility for co	suant to NMC eases which in eve the open r, surface was ompliance w	OCD remay er ator of ter, hu ith any	MOCD and ules and ndanger Fliability man health
The failure of an ecovered and the ecovered and the ecovered and the ecovered and the ecovered area as a BLM. The affected area are BLM. The environment of the environment of the environment ederal, state or the ecovered ecove	one inche line was are the nat the irrerators a he environs hant. In all ocal law	n steel line to a repaired/repaired/repaired/repaired/repaired/repaired formation giver required to comment. The taye failed to a dition, NMO is and/or regu	pressure solaced. Action Take and the payone above oreport an acceptance dequately CD accept	witch at the wellh en.* Isture. Remediati is true and compl d/or file certain rue of a C-141 repo investigate and re	lete to the clease nort by the emediate report do	be completed the best of my obtifications and NMOCD mate contaminations not relieve	in accordance with the knowledge and und perform correct which as "Final Room that pose a three the operator of roots COIL CONS." District Supervisor	nderstartive active act	nediation pl nd that purs ions for rele loes not reli round water bility for co	lan approved suant to NMO eases which neve the open r, surface wat ompliance w	OCD remay er ator of ter, hu ith any	MOCD and ules and ndanger Fliability man health

A STATE OF THE STA	Site Description	RECEIVED
Site Name:	SMU Federal #17	DOMESTIC STATE OF THE STATE OF
Company:	Oxy Permian Ltd.	
Legal Description:	U/L G, Section 15, T24S, R37E	
County:	Lea County, NM	
GPS Coordinates:	N 32.21942° W 103.14868°	

	Release Data
Date of Release:	08/12/2013
Type of Release:	Oil and produced water
Source of Release:	1" steel line to pressure switch at well head
Volume of Release:	7 bbls oil and 13 bbls produced water
Volume Recovered:	0 bbls

	Remediation Specifications
Remediation Parameters:	Excavate the area around SP1 to a depth of the surface to 1 foot. Excavate the rest of the spill area to a depth of 4 feet. Obtain confirmation bottom and sidewall samples. Backfill the sire with clean soil.
Remediation Activities:	03/12/14 to 03/20/14

Plan Sent to OCD:	10/02/2013	Email from Cliff Brunson to Geoffrey Leking
OCD Approval of Plan:	10/03/2013	Email from Geoffrey Leking to Cliff Brunson
Plan Sent to BLM:	10/03/2013	Email from Cliff Brunson to J. Van Curen
BLM Approval of Plan:	10/06/2013	Email from J. Van Curen to Cliff Brunson

	Supporting Documentation
Initial C-141	Signed 08/22/2013
Final C-141	Signed 03/24/2014
Site Diagram	August 2013
Groundwater Plot	<100'
TOPO Maps	August 2013
Lab Summary	8/28/13 and 3/14/14
Lab Analysis	8/28/13 and 3/14/14
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.

03/26/14

HOBBS OCD

MAR 27 2014

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Form C-141 Revised October 10, 2003

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

* Attach Additional Sheets If Necessary

Oil Conservation Division 1220 South St. Francis Dr.

State of New Mexico

Energy Minerals and Natural Resources

Santa Fe, NM 87505

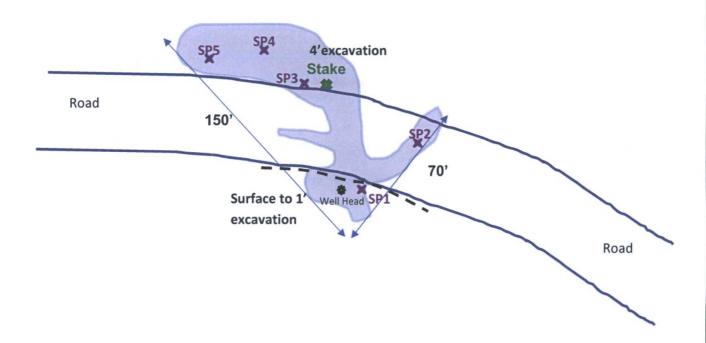
Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back side of form

			Rel	ease Notific	cation	and Co	orrective A	ction				
						OPERA'	TOR	\boxtimes	Initia	al Report		Final Repo
		Oxy Permia				Contact (CJ Summers					
		tanolind Rd,				Telephone l		-8216				
Facility Na	me South	h Mattix Uni	t Fed #17			Facility Typ	oe					
Surface Ow	ner BLM			Mineral (Owner			AI	PI No	. 30-025-	20298	
				LOCA	ATION	OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/West I	ine	County		
G	15	24S	37E	1980'		N	1980'	E		Lea Co.		
				Latitude		Longit	ude					
						OF REL	net Tu	_				
Type of Rele	ease Oil a	nd produced v	vater	IVAI	UKE	Volume of		Vol	ume R	Recovered	0 bbls	1
							13 bbls produced		- 1	Section 1	8-7	
CHT .			ssure swit	ch at wellhead		08/12/2013	THE RESERVE AND ADDRESS OF THE PERSON OF THE	e Date	and I	Hour of Dis	scovery	
Was Immedi	ate Notice (Yes	No Not Re	equired	If YES, To Geoffrey L	Whom? eking- NMOCD,	Jennifer Van	Curer	n and James	s Amos	- BLM
By Whom?						Date and H	Tour 08/13/2013	@ 10:51 am		117		
Was a Water	course Read		V	l M.		If YES, Vo	lume Impacting t	he Watercour	se.			4
	ar	L	Yes 🛛	No								
The failure o	f an one inc	em and Reme	pressure s		nead rele	ased 7 bbls o	f oil and 13 bbls o	of produced w	ater o	onto the gro	und. N	o fluids were
	177	and Cleanup A		en.*								
The affected the BLM.	areas are th	e location pad	and the pa	asture. Remediat	ion will l	oe completed	in accordance wi	th a remediat	ion pla	an approve	d by NI	MOCD and
regulations at public health should their cor the environ	or the environment of the control of the environment of the control of the contro	are required to ronment. The ave failed to a	acceptance acceptance dequately CD accep	d/or file certain re e of a C-141 repo investigate and re	elease no ort by the emediate	NMOCD ma	knowledge and und perform correctarked as "Final Roon that pose a three the operator of r	tive actions for eport" does no eat to ground	or rele ot relie water,	eases which eve the open surface wa	may er rator of ster, hu	idanger liability man health
				1			OIL CONS	SERVATI	ON	DIVISIO	N	
Signature:			The same of the sa									
Printed Name	e: Chance	ey Summers			A	approved by	District Superviso	or:				_
Title: HES	Specialist				A	approval Date	e;	Expira	tion D	Date:		
E-mail Addre	0 - 1	cey.Summers(@oxy.com			Conditions of	Approval:			Attached		
Date: 8/	22/13		Pho	ne: (575) 397-821	16					-0		



Оху

South Mattix Unit Federal #017



U/L G, Section 15, T24S, R37E Lea County, NM N 32.21942° W 103.14868°

BBC Interr	national, Inc.	
(Оху	
South Mat	ttix Unit #017	
Date: 08/26/2013	DRWG by: JG	
NOT TO SCALE	File: Oxy 2013	



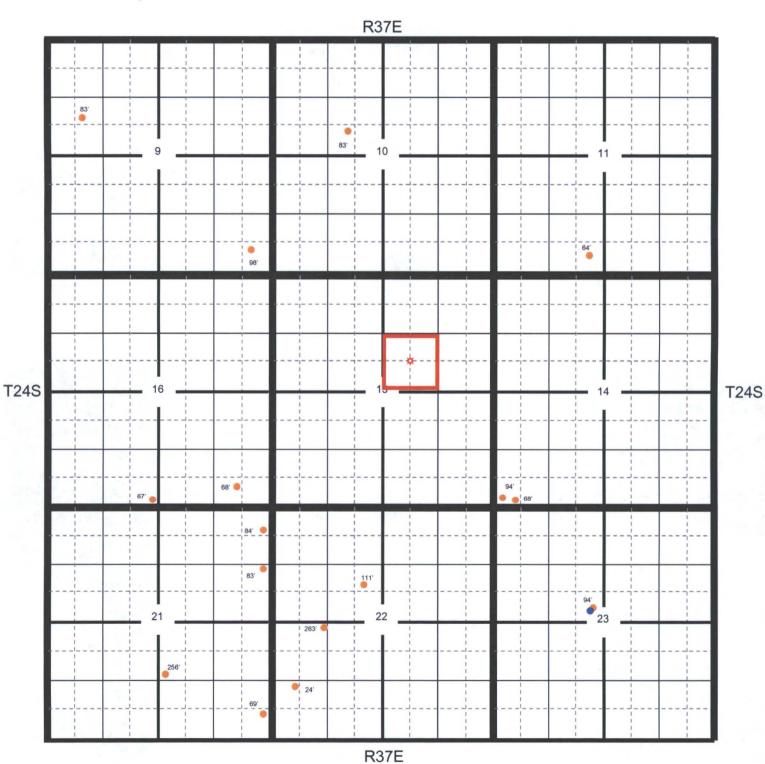
Groundwater Plot

Oxy SMU Fed #017

County Unit Letter Lea Co. G

Section 15 Township 24S Range 37E

Trend Map <100'



Location

OCD

USGS

SEO

All Databases



Section Quarters

Oxy SMU #017

County Un Lea G

Unit Letter

Section 15 Township 24S Range 37E

Trend Map <100'

1

2

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

3

4

Location

OCD

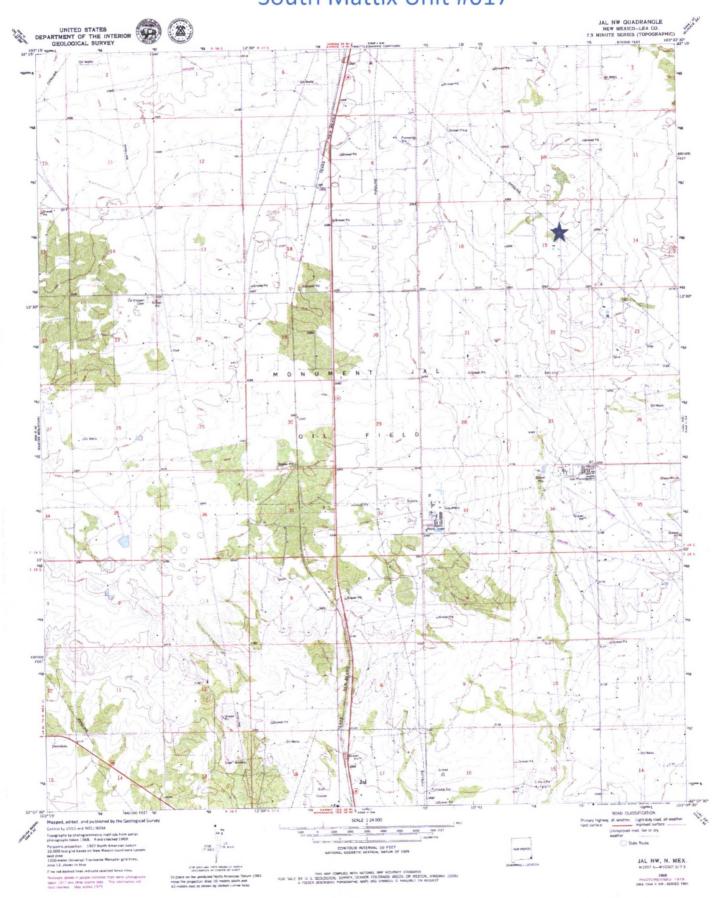
USGS

SEO

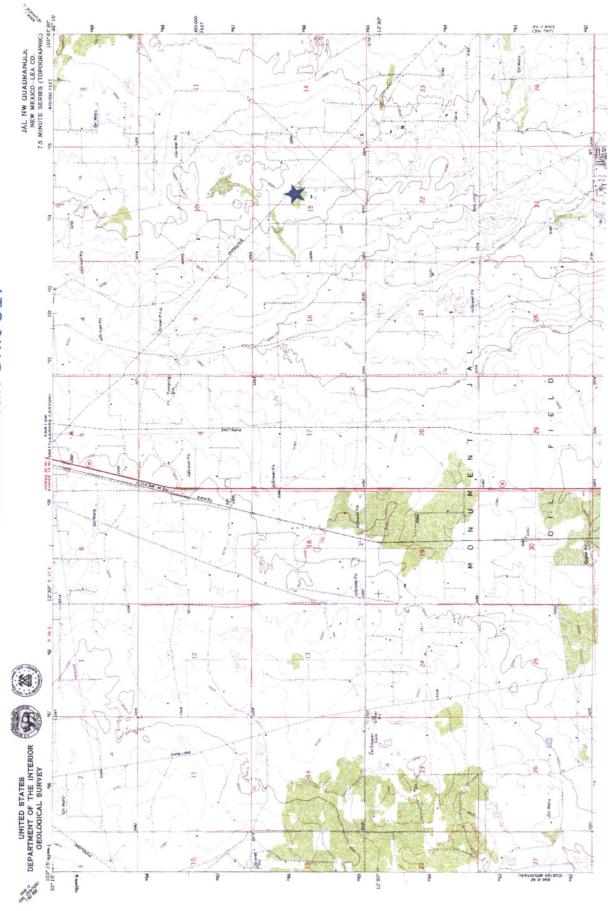
All Databases

Оху

South Mattix Unit #017



South Mattix Unit 017



Laboratory Analytical Results Summary South Mattix Unit Federal #17

Analyte Method Benzene BTEX 8021B Toluene BTEX 8021B Ethylbenzene BTEX 8021B Total Xylenes BTEX 8021B	Date 3	8/28/13 mg/Kg	8/28/13 mg/Kg	8/28/13
zene		mg/Kg	mg/Kg	
zene		-0 0E0		mg/Kg
	3	0000	n/a	<0.050
		<0.050	n/a	<0.050
		<0.050	n/a	<0.050
	8	<0.150	n/a	<0.150
Total BTEX 8021B	3	<0.300	n/a	<0.300
Chloride SM4500CI-B		144	272	16
GRO TPH 8015M		<10.0	n/a	<10.0
DRO TPH 8015M		<10.0	n/a	<10.0

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 4"	SP2 @ 5'
Analyte	Method	Date	8/28/13	8/28/13	8/28/13	8/28/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	<0.300
Chloride	SM4500CI-B		5120	4320	816	<16.0
GRO	TPH 8015M		<10.0	<10.0	n/a	<10.0
DRO	TPH 8015M		24.5	<10.0	n/a	<10.0

Analyte Method BEnzene BTEX 8021B						AND REAL PROPERTY.
te		Sample	SP3 @ 1.	SP3 @ 3.	SP3 @ 4'	SP3 @ 5.
	poi	Date	8/28/13	8/28/13	8/28/13	8/28/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
	21B		<0.050	<0.050	n/a	<0.050
Toluene BTEX 8021B	21B		<0.050	<0.050	n/a	<0.050
Ethylbenzene BTEX 8021B	21B		<0.050	<0.050	n/a	<0.050
Total Xylenes BTEX 8021B	21B		<0.150	<0.150	n/a	<0.150
Total BTEX 8021B	21B		<0.300	<0.300	n/a	<0.300
Chloride SM4500CI-B	N-B		6320	4240	926	<16.0
GRO TPH 8015M	5M		<10.0	<10.0	n/a	<10.0
DRO TPH 8015M	5M		30.1	<10.0	n/a	<10.0

		Sample	SP4 @ 1'	SP4 @ 3'	SP4 @ 4'	SP4 @ 5'
Analyte	Method	Date	8/29/13	8/29/13	8/29/13	8/29/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	<0.300
Chloride	SM4500CI-B		0009	4480	992	<16.0
GRO	TPH 8015M		<10.0	<10.0	n/a	<10.0
DRO	TPH 8015M		28.1	<10.0	n/a	<10.0

		Sample	SP5 @ 1"	SP5@3"	SP5@4"	SP5 @ 5'
Analyte	Method	Date	8/29/13	8/29/13	8/29/13	8/29/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	<0.300
Chloride	SM4500CI-B		0009	3340	944	<16.0
GRO	TPH 8015M		<10.0	<10.0	n/a	<10.0
DRO	TPH 8015M		24.9	<10.0	n/a	<10.0

Laboratory Analytical Results Summary SMU Federal #17

		Sample	SIDEWALL 1	SIDEWALL 2	SIDEWALL 3	SIDEWALL 4	ВОТТОМ
Analyte	Method	Date	3/14/14	3/14/14	3/14/14	3/14/14	3/14/14
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Ethylbenzene	Ethylbenzene BTEX 8021B		<0.050	<0.050	<0.050	<0.050	<0.050
Total Xylenes	otal Xylenes BTEX 8021B		<0.150	<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	<0.300
Chloride	SM4500CI-B		112	64	32	80	48
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	<10.0



September 11, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SOUTH MATTIX UNIT FED #017

Enclosed are the results of analyses for samples received by the laboratory on 09/04/13 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.

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:

09/04/2013

Sampling Date:

08/28/2013

Reported:

Sampling Type:

Soil

Project Name:

09/11/2013

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

SOUTH MATTIX UNIT FED #017

Project Location:

NOT GIVEN

86.8 %

63.6-154

Sample Received By:

Jodi Henson

Sample ID: SP 1 @ 1' (H302143-01)

BTEX 8021B	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2013	ND	2.11	106	2.00	7.67	
Toluene*	< 0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	< 0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	< 0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	<0.300	0.300	09/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	09/06/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	ed By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92	
Surrogate: 1-Chlorooctane	80.3	% 65.2-14	0						

Sample ID: SP 1 @ 2' (H302143-02)

Surrogate: 1-Chlorooctadecane

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP				- 1	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	09/06/2013	ND	416	104	400	0.00	

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

Fax To: (575) 397-0397

Received:

09/04/2013

Sampling Date:

08/28/2013

Reported:

09/11/2013

Sampling Type:

Soil

Project Name:

SOUTH MATTIX UNIT FED #017

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: SP 1 @ 3' (H302143-03)

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	09/09/2013	ND	2.11	106	2.00	7.67	
Toluene*	< 0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	< 0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	<0.300	0.300	09/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109 9	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/06/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92	
Surrogate: 1-Chlorooctane	78.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	84.7	63.6-15	4						

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Received:

09/04/2013

Sampling Date:

08/28/2013

Reported:

09/11/2013

Sampling Type:

Soil

Project Name:

SOUTH MATTIX UNIT FED #017

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: SP 2 @ 1' (H302143-04)

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	09/09/2013	ND	2.11	106	2.00	7.67	
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	<0.300	0.300	09/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	09/06/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	24.5	10.0	09/06/2013	ND	196	98.0	200	2.92	
Surrogate: 1-Chlorooctane	90.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	96.6	% 63.6-15	4						

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Received:

09/04/2013

Sampling Date:

08/28/2013

Reported:

09/11/2013

Sampling Type:

Soil

Project Name:

SOUTH MATTIX UNIT FED #017

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: SP 2 @ 3' (H302143-05)

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	09/09/2013	ND	2.11	106	2.00	7.67	
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	<0.300	0.300	09/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	09/06/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92	
Surrogate: 1-Chlorooctane	79.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	83.4	63.6-15	4						

Sample ID: SP 2 @ 4' (H302143-06)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	09/06/2013	ND	416	104	400	0.00	

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Received:

09/04/2013

Sampling Date:

08/28/2013

Reported:

09/11/2013

Sampling Type:

Soil

Project Name:

SOUTH MATTIX UNIT FED #017

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: SP2 @ 5' (H302143-07)

BTEX 8021B	mg/kg

		9	,						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2013	ND	2.11	106	2.00	7.67	
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	< 0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	<0.300	0.300	09/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 %	89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/06/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: AR					-
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92	
Surrogate: 1-Chlorooctane	77.7 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	81.65	% 63.6-15	4						

Analyzed By: MS

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Received:

09/04/2013

Sampling Date:

08/28/2013

Reported:

09/11/2013

Sampling Type:

Soil

Project Name:

SOUTH MATTIX UNIT FED #017

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: SP 3 @ 1' (H302143-08)

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	09/09/2013	ND	2.11	106	2.00	7.67	
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	<0.300	0.300	09/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6320	16.0	09/06/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	30.1	10.0	09/06/2013	ND	196	98.0	200	2.92	
Surrogate: 1-Chlorooctane	86.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	95.0	% 63.6-15	4						

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(575) 397-0397 Fax To:

Received:

09/04/2013

Sampling Date:

08/28/2013

Reported:

Sampling Type:

Soil

Project Name:

09/11/2013

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

SOUTH MATTIX UNIT FED #017

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: SP 3 @ 3' (H302143-09)

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	09/09/2013	ND	2.11	106	2.00	7.67	
Toluene*	< 0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	< 0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	<0.300	0.300	09/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 %	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	4240	16.0	09/06/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92	
Surrogate: 1-Chlorooctane	80.75	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	87.15	% 63.6-15	4						

Sample ID: SP 3 @ 4' (H302143-10)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	09/06/2013	ND	416	104	400	0.00	

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Fax To: (575) 397-0397

Received:

09/04/2013

Sampling Date:

08/28/2013

Reported:

09/11/2013

Sampling Type:

Soil

Project Name:

SOUTH MATTIX UNIT FED #017

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: SP 3 @ 5' (H302143-11)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2013	ND	2.11	106	2.00	7.67	
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	< 0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	< 0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	<0.300	0.300	09/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 9	% 89.4-12	26						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/06/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92	
Surrogate: 1-Chlorooctane	79.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	86.7	% 63.6-15	4						

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Fax To: (575) 397-0397

Received:

09/04/2013

Sampling Date:

08/29/2013

Reported:

09/11/2013

Sampling Type:

Soil

Project Name:

SOUTH MATTIX UNIT FED #017

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: SP 4 @ 1' (H302143-12)

BTEX 8021B	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2013	ND	2.11	106	2.00	7.67	
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	<0.300	0.300	09/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 9	% 89.4-12	6						47
Chloride, SM4500CI-B	mg/	kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	09/06/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	ed By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	28.1	10.0	09/06/2013	ND	196	98.0	200	2.92	
Surrogate: 1-Chlorooctane	85.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	93.2	% 63.6-15	4						

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Celey D. Keene



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

Fax To: (575) 397-0397

Received:

09/04/2013

Sampling Date:

08/29/2013

Reported:

09/11/2013

Sampling Type:

Soil

Project Name:

SOUTH MATTIX UNIT FED #017

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: SP 4 @ 3' (H302143-13)

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	09/09/2013	ND	2.11	106	2.00	7.67	
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	< 0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	< 0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	<0.300	0.300	09/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 9	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	09/06/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92	
Surrogate: 1-Chlorooctane	84.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	90.1	% 63.6-15	4						

Sample ID: SP 4 @ 4' (H302143-14)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	09/06/2013	ND	416	104	400	0.00	

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Celey D. Keene



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

Fax To: (575) 397-0397

Received:

09/04/2013

Sampling Date:

08/29/2013

Reported:

09/11/2013

Sampling Type:

Soil

Project Name:

SOUTH MATTIX UNIT FED #017

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: SP 4 @ 5' (H302143-15)

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	09/09/2013	ND	2.11	106	2.00	7.67	
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	<0.300	0.300	09/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/06/2013	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92	
Surrogate: 1-Chlorooctane	69.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	69.8	% 63.6-15	4						

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Celey D. Keene



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

Fax To:

(575) 397-0397

Received:

09/04/2013

Sampling Date:

08/29/2013

Reported:

09/11/2013

Sampling Type:

Soil

Project Name:

SOUTH MATTIX UNIT FED #017

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: SP 5 @ 1' (H302143-16)

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	09/09/2013	ND	2.11	106	2.00	7.67	
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	<0.300	0.300	09/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	09/06/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	24.9	10.0	09/06/2013	ND	196	98.0	200	2.92	
Surrogate: 1-Chlorooctane	84.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	95.0	% 63.6-15	4						

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Celey D. Keens



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

(575) 397-0397 Fax To:

Received:

09/04/2013

Sampling Date:

08/29/2013

Reported:

09/11/2013

Sampling Type:

Soil

Project Name:

SOUTH MATTIX UNIT FED #017

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Project Location:

NOT GIVEN

Jodi Henson

Sample ID: SP 5 @ 3' (H302143-17)

BTEX 8021B	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2013	ND	2.11	106	2.00	7.67	
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	< 0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	<0.300	0.300	09/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 %	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	3340	16.0	09/06/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92	
Surrogate: 1-Chlorooctane	83.0 9	65.2-14	0			Ä			
Surrogate: 1-Chlorooctadecane	91.0 9	63.6-15	4						

Sample ID: SP 5 @ 4' (H302143-18)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	09/06/2013	ND	416	104	400	0.00	

Cardinal Laboratories

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Celey D. Keene



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

Fax To:

(575) 397-0397

Received:

09/04/2013

Sampling Date:

08/29/2013

Reported:

BTEX 8021B

09/11/2013

Sampling Type:

Soil

Project Name:

SOUTH MATTIX UNIT FED #017

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Analyzed By: MS

Project Location:

NOT GIVEN

mg/kg

Sample Received By:

Jodi Henson

Sample ID: SP 5 @ 5' (H302143-19)

DIEK COLLEG	9/	r.g	raidiyad	a by: 110					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2013	ND	2.11	106	2.00	7.67	
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	<0.300	0.300	09/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/06/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92	
Surrogate: 1-Chlorooctane	78.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	82.8	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine



ND

Notes and Definitions

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories

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Celey D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

	505) 383-2326 FAX (505) 383-24/6	ľ	ı	١	ı	ı	Į		ı	ı	l						l				ı							4	1
Company Name:	BBC International, Inc.									7	11/1	The same							ANALYSIS REQUEST	LYS	SR	EQU	EST	,		-			
Project Manager:	Cliff Brunson							P.O. #:	*									٧.					_	_	_				
Address: P.O. Box 805	Box 805							Company:	pa	ny:				2					,						-		1		
city: Hobbs	State: NM	Zip: 88241	88	24				Attn:		1																		,-	
Phone #: 575-397-6388	-	397	038	37				Address:	res	S.	C	A	1	, 4											-				
Project #:		0	K	1				City:																					
Project Name:	SOUTH MATTIR Unit	3	RO #017	4	1/2	"	-	State:	œ.		2	Zip:							×			•		-			,		
Project Location:			-	'			_	Phone #:	ne I	7.						•								_			,	-	
Sampler Name:							L	Fax #:	#						DE		,						_	-			٠.		
FOR LAB USE ONLY				+ 1	M	MATRIX		-	- R	PRESERV.	<	SAMPLING	Ľ	9	11		X	1							_			-	
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Lab I.D.	Sample I.D.	RAB OR	CONTAINE	STEWAT	AL.		UDGE	HER:	ID/BASE:	COOL	HER:				CHI	TH	RI					-							
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LEASE NOTE: Liability and Inalyses. All claims including	**************************************	y claim	arising v	whethe	r baseo	in con	and o	eceive	thall b	e limit	ed to I	the amount in 30 days	paid t	by the client for completion of the	the applical	ä								,					٠.
ervice. In no event shell Ca ffiliates or successors arisin	evice. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business intemptions, loss of use, or loss of profits incurred by client, its subsidiaries, filiaties or successions arising out of or related to the performance of services beneunder by Cardinal, recardless of whether such dalm is based upon any of the above stated reasons or otherwise.	without I	mitation	s of w	ness in	emuptik such d	ons, lo	ss of u	sa, or upon	loss o	the a	ts incurred bove stated	by clie	by client, its subsidiari	ries,													I, - ₹	٠.
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

古本

小板

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

Time: 5:06



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 18 of 18

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

(505) 383-2326 FAX (505) 383-2476	0	A CARLO CONTRACTOR OF STREET, AND AND ADDRESS OF STREET, AND ADDRESS			Po 7
Company Name: BBC International, Inc.		2471E		ANALYSIS REQUEST	L
Project Manager: Cliff Brunson		P.O. #:			
Address: P.O. Box 805		Company:			7
bbs state: NM	Zip: 88241	Attn:			. · ·
5-397-6388 Fax #:	575-397-0397	Address: SAME			
Project #: Project Owner:	OXY	City:			
ame: SOUTH A	In I FEDHOIT	State: Zip:			-
on: Hay		Phone #:	2		
Page Hapmand	12	Fax #:	7/6		
	P. MATRIX	PRESERV. SAMPLING	2K 2/ 2/		
Lab I.D. Sample I.D.	OR (C)OM AINERS DWATER WATER	ASE:	HL 197 312		
H302143	# CON GROU	OTHER ACID/B ICE / C OTHER DATE	TIME		
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12 8040 1.	7	1 8.18 18 W	2500		
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		or lock shall be limited to the second and but he			
LEASE NOTE: Labority and Danages, Calcutant submity and centre occusere ements on any own answarp cannot be recovered to control or the central relationships. All claims including those for negligencia and any other cause whatboever shall be deemed withhed on these made in writing and received by Cardinal within 30 days after completion of the at enrice, in no event shall Cardinal be able for incidental or consequential damages, including without intaination, business interruptions, loss of use, or iose of profits incurred by client, its subbaildanies, enfects and a state of the control of the proformance of services insertions by Cardinal, regardings of whether such claims (about 2000 any of the above stated insports or otherwise.	y clain ansing wiverer beautiff carriers, by clain ansing wived unless made in writing and without limitation, business interruptions, k without limitation, business interruptions, k rdinal, regardless of whether such clains	y or any cum arrang wreters seasou at comercut not, asso de anset or the amount plato by the citent not this all be deemed wateved unless made in writing and received by Cardinal within 30 days after completion of the applicable Juding without firmitation, business interruptions, loss of use, or loss of profits incurred by citent, its subsidiaries, or by Cardinal, recardings of whether study delargis these upon any of the above stated manons or otherwise.	by the clustrior rine completion of the applicable ent, its subsidiaries, cons or otherwise.		,
Relinquished By: Datg: Datg:	Received By:	REN REN	Phone Result:	Add'l Phone #: Add'l Fax #:	
Relinquished By: Time:	Received By:	noon			
Delivered By: (Circle One)	Sample Condition	On CHECKED BY:		ej	
Sampler - UPS - Bus - Other:	Tres Tres				

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-240s



March 18, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SMU #17

Enclosed are the results of analyses for samples received by the laboratory on 03/17/14 8:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at 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:

03/17/2014 03/18/2014

Sampling Date: Sampling Type: 03/14/2014 Soil

Reported:

SMU #17

Sampling Condition:

Cool & Intact

Project Name: Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: SIDEWALL #1 (H400791-01)

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	03/17/2014	ND	2.32	116	2.00	2.90	
Toluene*	<0.050	0.050	03/17/2014	ND	2.21	110	2.00	2.66	
Ethylbenzene*	<0.050	0.050	03/17/2014	ND	2.16	108	2.00	2.78	
Total Xylenes*	<0.150	0.150	03/17/2014	ND	6.27	104	6.00	2.30	
Total BTEX	<0.300	0.300	03/17/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103	% 89.4-12	6						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/17/2014	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

ND

ND

217

213

108

107

200

200

2.29

1.57

03/17/2014

03/17/2014

Surrogate: 1-Chlorooctane 103 % Surrogate: 1-Chlorooctadecane 101%

<10.0

<10.0

10.0

10.0

65.2-140

63.6-154

Cardinal Laboratories

GRO C6-C10

DRO >C10-C28

*=Accredited Analyte

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Celey D. Keine



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

Fax To: (575) 397-0397

Received:

03/17/2014

Sampling Date: Sampling Type: 03/14/2014

Reported:

03/18/2014 SMU #17

Soil

Project Name: Project Number: NONE GIVEN

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

Project Location:

NOT GIVEN

Sample ID: SIDEWALL #2 (H400791-02)

BTEX 8021B

mg/kg

Analyzed By: MS

		_							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	03/17/2014	ND	2.32	116	2.00	2.90	
Toluene*	<0.050	0.050	03/17/2014	ND	2.21	110	2.00	2.66	
Ethylbenzene*	<0.050	0.050	03/17/2014	ND	2.16	108	2.00	2.78	
Total Xylenes*	<0.150	0.150	03/17/2014	ND	6.27	104	6.00	2.30	
Total BTEX	<0.300	0.300	03/17/2014	ND					

1000/

00 / 10/

Surrogate: 4-Bromofluorobenzene (PIL	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	64.0	16.0	03/17/2014	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	03/17/2014	ND	217	108	200	2.29	
DRO >C10-C28	<10.0	10.0	03/17/2014	ND	213	107	200	1.57	

Surrogate: 1-Chlorooctane

93.7%

65.2-140

Surrogate: 1-Chlorooctadecane

99.1%

63.6-154

*=Accredited Analyte Cardinal Laboratories

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Celey D. Keine



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

Fax To: (575) 397-0397

Received: Reported: 03/17/2014

Sampling Date: Sampling Type: 03/14/2014 Soil

Project Name:

03/18/2014 SMU #17 NONE GIVEN

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

Project Number: Project Location:

NOT GIVEN

Sample ID: SIDEWALL #3 (H400791-03)

BTEX 8021B

mg/kg

Analyzed By: MS

Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
< 0.050	0.050	03/17/2014	ND	2.32	116	2.00	2.90	
<0.050	0.050	03/17/2014	ND	2.21	110	2.00	2.66	
<0.050	0.050	03/17/2014	ND	2.16	108	2.00	2.78	
<0.150	0.150	03/17/2014	ND	6.27	104	6.00	2.30	
<0.300	0.300	03/17/2014	ND					
	<0.050 <0.050 <0.050 <0.150	<0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050

Surrogate: 4-Bromofluorobenzene (PIL

102 %

89.4-126

0									
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	03/17/2014	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	03/17/2014	ND	217	108	200	2.29	
DRO >C10-C28	<10.0	10.0	03/17/2014	ND	213	107	200	1.57	

Surrogate: 1-Chlorooctane

106 %

65.2-140

Surrogate: 1-Chlorooctadecane

104%

63.6-154

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



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

Fax To: (575) 397-0397

Received: Reported: 03/17/2014 03/18/2014

Project Name: Project Number: Project Location: SMU #17

NONE GIVEN NOT GIVEN

Sampling Date:

Sampling Type:

03/14/2014

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: SIDEWALL #4 (H400791-04)

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	03/17/2014	ND	2.32	116	2.00	2.90	
Toluene*	<0.050	0.050	03/17/2014	ND	2.21	110	2.00	2.66	
Ethylbenzene*	< 0.050	0.050	03/17/2014	ND	2.16	108	2.00	2.78	
Total Xylenes*	<0.150	0.150	03/17/2014	ND	6.27	104	6.00	2.30	
Total BTEX	<0.300	0.300	03/17/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/17/2014	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	03/17/2014	ND	217	108	200	2.29	
DRO >C10-C28	<10.0	10.0	03/17/2014	ND	213	107	200	1.57	
Surrogate: 1-Chlorooctane	103 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	104 9	63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene



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

Fax To: (575) 397-0397

Received:

03/17/2014

Sampling Date: Sampling Type: 03/14/2014

Reported:

03/18/2014

Soil

Project Name:

SMU #17 NONE GIVEN

Sampling Condition:

Cool & Intact

Project Number: Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: BOTTOM (H400791-05)

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	03/17/2014	ND	2.32	116	2.00	2.90	
Toluene*	<0.050	0.050	03/17/2014	ND	2.21	110	2.00	2.66	
Ethylbenzene*	<0.050	0.050	03/17/2014	ND	2.16	108	2.00	2.78	
Total Xylenes*	< 0.150	0.150	03/17/2014	ND	6.27	104	6.00	2.30	
Total BTEX	<0.300	0.300	03/17/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 9	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/17/2014	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	03/18/2014	ND	217	108	200	2.29	
DRO >C10-C28	<10.0	10.0	03/18/2014	ND	213	107	200	1.57	
Surrogate: 1-Chlorooctane	107 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	106 9	63.6-15	4						

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Celey D. Keine



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

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Celey D. Keine

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1. Cardinal cannot accept verbal changes. Please fax written changes to 50

Kathy Purvis

From: Leking, Geoffrey R, EMNRD < GeoffreyR.Leking@state.nm.us>

Sent: Thursday, October 03, 2013 2:06 PM

To: Cliff P. Brunson

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

Subject: RE: OXY-South Mattix Unit Federal #017-Remediation Plan

Cliff

RE: OXY-South Mattix Unit Federal #017-Remediation Plan

The remediation plan is approved as discussed at the September 25, 2013 meeting as detailed in your email below.

Please include all attachments to the email below in your closure report. Thank you.

Geoffrey Leking Environmental Specialist NMOCD-Hobbs 1625 N. French Drive Hobbs, NM 88240

Office: (575) 393-6161 Ext. 113

Cell: (575) 399-2990

email: geoffreyr.leking@state.nm.us

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

Sent: Wednesday, October 02, 2013 3:24 PM

To: Leking, Geoffrey R, EMNRD

Cc: C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis **Subject:** OXY-South Mattix Unit Federal #017-Remediation Plan

Geoff,

This message is to confirm our discussion on September 25, 2013 concerning the remediation plan for the Oxy South Mattix Unit Federal #017 site. I have attached the site diagram and lab data summary table that we used in our discussion. As mutually agreed, Oy will excavate to a depth of surface to 1 foot in the area around SP1 as depicted on the attached diagram. In the rest of the spill area, the excavation will be to 4 feet as shown on the diagram. The site will then be backfilled with clean soil.

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

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:

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

E-Mail: cbrunson@bbcinternational.com

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Kathy Purvis

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

Sent: Sunday, October 06, 2013 8:09 PM

To: Cliff P. Brunson

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

Subject: Re: OXY-South Mattix Unit (SMU) Federal #017-Remediation Plan

Cliff,

You have the go ahead on this one. Please get me some bottom and sidewall samples. thanks

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 Thu, Oct 3, 2013 at 10:46 AM, Cliff P. Brunson < <u>cbrunson@bbcinternational.com</u>> wrote: Jennifer,

This e-mail is to request the BLM's approval for the following remediation plan for the above referenced site. I have attached the materials that pertain to the site and the plan. This plan has already been approved by Geoffrey Leking of the NMOCD. Oxy will excavate to a depth of surface to 1 foot in the area around SP1 as depicted on the attached diagram. In the rest of the spill area, the excavation will be to 4 feet as shown on the diagram. The site will then be backfilled with clean soil.

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

Thanks, Cliff

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

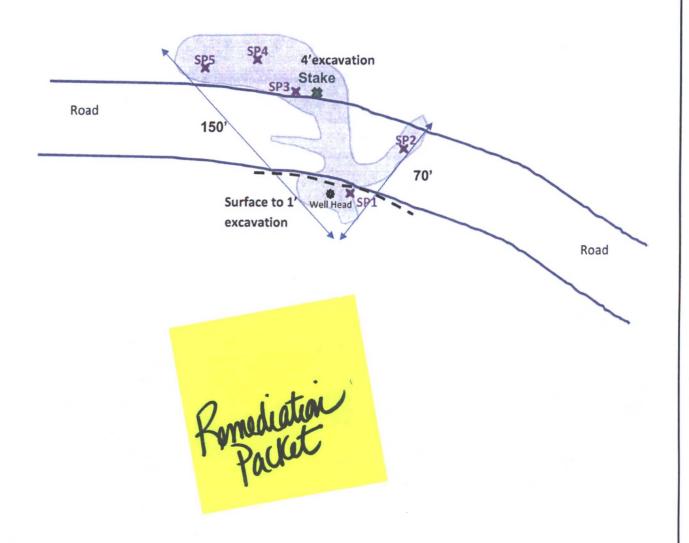
E-Mail: cbrunson@bbcinternational.com

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Оху

South Mattix Unit Federal #017



U/L G, Section 15, T24S, R37E Lea County, NM N 32.21942° W 103.14868°

BBC Interr	national, Inc.
(Оху
South Mat	ttix Unit #017
Date: 08/26/2013	DRWG by: JG
NOT TO SCALE	File: Oxy 2013



Groundwater Plot

Oxy SMU Fed #017

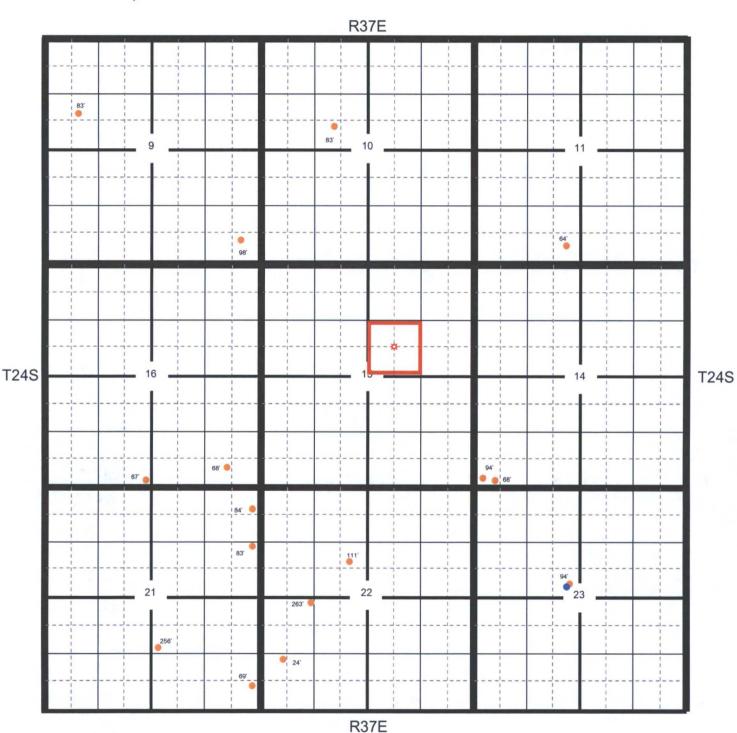
County Lea Co. **Unit Letter** G

Section 15

Township 248

Range 37Ē

Trend Map <100'



Location

OCD

USGS

• SEO

All Databases



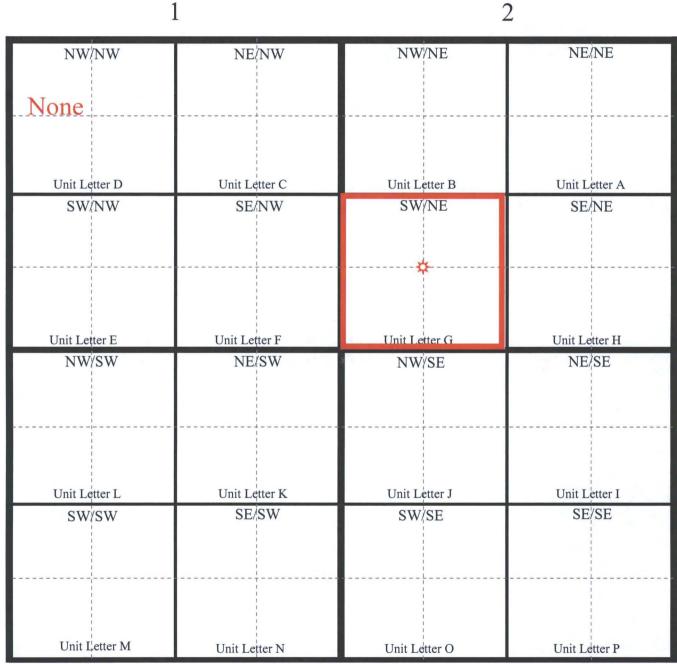
Section Quarters

Oxy SMU #017

Unit Letter County Section Township Range 37Ē G 15 **24S** Lea

Trend Map <100'

2



3 4

 All Databases Location OCD USGS SEO

Laboratory Analytical Results Summary South Mattix Unit Federal #17

Analyte Method Date SP1@1* ene BTEX 8021B <0.050 ene BTEX 8021B <0.050 benzene BTEX 8021B <0.050 Ibenzene BTEX 8021B <0.050 Xylenes BTEX 8021B <0.050 BTEX BTEX 8021B <0.050 IBTEX BTEX 8021B <0.300 ride SM4500Cl-B 144 TPH 8015M <10.0 TPH 8015M <10.0					The second secon	Communication of the Communica
te Method Date вгант BTEX 8021B <0.050 BTEX 8021B <0.050 BTEX 8021B <0.050 enes BTEX 8021B <0.050 EX BTEX 8021B <0.150 EX BTEX 8021B <0.150 EX BTEX 8021B <0.150 TPH 8015M <10.0 TPH 8015M <10.0			Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'
BTEX 8021B c.0.050 BTEX 8021B c.0.050 zene BTEX 8021B c.0.050 EX BTEX 8021B c.0.150 EX BTEX 8021B c.0.300 SM4500Cl-B 144 TPH 8015M <10.0	Analyte	Method	Date	8/28/13	8/28/13	8/28/13
BTEX 8021B <0.050 zene BTEX 8021B <0.050 enes BTEX 8021B <0.050 EX BTEX 8021B <0.150 EX BTEX 8021B <0.300 SM4500Cl-B 144 TPH 8015M <10.0 TPH 8015M <10.0				mg/Kg	mg/Kg	mg/Kg
EXEX 8021B <0.050 icane BTEX 8021B <0.050 EX BTEX 8021B <0.150 EX BTEX 8021B <0.300 SM4500Cl-B 144 TPH 8015M <10.0 TPH 8015M <10.0	Benzene	BTEX 8021B		<0.050	n/a	<0.050
benzene BTEX 8021B <0.050	Toluene	BTEX 8021B		<0.050	n/a	<0.050
Xylenes BTEX 8021B <0.150	Ethylbenzene	BTEX 8021B		<0.050	n/a	<0.050
BTEX 8021B <0.300	Total Xylenes	BTEX 8021B		<0.150	n/a	<0.150
ide SM4500Cl-B 144 TPH 8015M <10.0 TPH 8015M <10.0	Total BTEX	BTEX 8021B		<0.300	n/a	<0.300
TPH 8015M <10.0	Chloride	SM4500CI-B		144	272	16
TPH 8015M <10.0	GRO	TPH 8015M		<10.0	n/a	<10.0
	DRO	TPH 8015M		<10.0	n/a	<10.0

Analyte Method Date 872813 Benzene BTEX 8021B <0.050 Toluene BTEX 8021B <0.050 Ethylbenzene BTEX 8021B <0.050 Total Xylenes BTEX 8021B <0.050 Total Xylenes BTEX 8021B <0.050 Total BTEX BTEX 8021B <0.050 Chloride SM4500Cl-B 5120	mg/kg <0.050 <0.050	mg/Kg <0.050 <0.050	mg/Kg n/a n/a	mg/Kg <0.050 <0.050
### BTEX 8021B ### SM4500Cl-B		mg/Kg <0.050 <0.050	mg/Kg n/a n/a	<0.050 <0.050
### BTEX 8021B BTEX 8021B Same BTEX 8021B BTEX 8021B BTEX 8021B Sam4500Cl-B		<0.050	n/a n/a	<0.050
BTEX 8021B BTEX 8021B BTEX 8021B BTEX 8021B STA 8021B SM4500Cl-B		<0.050	n/a	<0.050
BTEX 8021B BTEX 8021B BTEX 8021B SM4500Cl-B	L			
EX BTEX 8021B EX BTEX 8021B SM4500Cl-B	_	<0.050	n/a	<0.050
EX BTEX 8021B SM4500CI-B		<0.150	n/a	<0.150
SM4500CI-B	_	<0.300	n/a	<0.300
	5120	4320	816	<16.0
GRO TPH 8015M <10.0	<10.0	<10.0	n/a	<10.0
DRO TPH 8015M 24.5	24.5	<10.0	n/a	<10.0

Analyte Mc		Sample	3F3 (E-	SP3 @3	3F3 (#4	3F3 (#3
	Method	Date	8/28/13	8/28/13	8/28/13	8/28/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene BTEX 8021B	8021B		<0.050	<0.050	n/a	<0.050
Toluene BTEX 8021B	8021B		<0.050	<0.050	n/a	<0.050
Ethylbenzene BTEX 8021B	8021B		<0.050	<0.050	n/a	<0.050
Total Xylenes BTEX 8021B	8021B		<0.150	<0.150	n/a	<0.150
Total BTEX 8021B	8021B		<0.300	<0.300	n/a	<0.300
Chloride SM4500CI-B	00CI-B		6320	4240	926	<16.0
GRO TPH 8015M	015M		<10.0	<10.0	n/a	<10.0
DRO TPH 8015M	015M		30.1	<10.0	n/a	<10.0

			The same of the same of the same of			
		Sample	SP4@1'	SP4@3'	SP4 @ 4'	SP4 @ 5'
Analyte	Method	Date	8/29/13	8/29/13	8/29/13	8/29/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	<0.300
Chloride	SM4500CI-B		0009	4480	992	<16.0
GRO	TPH 8015M		<10.0	<10.0	n/a	<10.0
DRO	TPH 8015M		28.1	<10.0	n/a	<10.0

		Sample	SP5 @ 1'	SP5@3'	SP5 @ 4'	SP5 @ 5'
Analyte	Method	Date	8/29/13	8/29/13	8/29/13	8/29/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	n/a	<0.300
Chloride	SM4500CI-B		0009	3340	944	<16.0
GRO	TPH 8015M		<10.0	<10.0	n/a	<10.0
DRO	TPH 8015M		24.9	<10.0	n/a	<10.0



September 11, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SOUTH MATTIX UNIT FED #017

Enclosed are the results of analyses for samples received by the laboratory on 09/04/13 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.

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:

09/04/2013

Sampling Date:

08/28/2013

Reported:

09/11/2013

Sampling Type:

Soil

Project Name:

SOUTH MATTIX UNIT FED #017

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: SP 1 @ 1' (H302143-01)

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	09/09/2013	ND	2.11	106	2.00	7.67	
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	< 0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	< 0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	<0.300	0.300	09/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 %	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	144	16.0	09/06/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92	
Surrogate: 1-Chlorooctane	80.3	% 65.2-14	0						xi ²
Surrogate: 1-Chlorooctadecane	86.8	% 63.6-15	4						

Sample ID: SP 1 @ 2' (H302143-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	09/06/2013	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keens



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

Fax To: (575) 397-0397

Received:

09/04/2013

Sampling Date:

08/28/2013

Reported:

09/11/2013

Sampling Type:

Soil

Project Name:

SOUTH MATTIX UNIT FED #017

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: SP 1 @ 3' (H302143-03)

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	09/09/2013	ND	2.11	106	2.00	7.67	
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	<0.300	0.300	09/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	09/06/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92	
Surrogate: 1-Chlorooctane	78.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	84.7	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene



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

Fax To: (575) 397-0397

Received:

09/04/2013

Sampling Date:

08/28/2013

Reported:

Sampling Type:

Soil

Project Name:

09/11/2013

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

SOUTH MATTIX UNIT FED #017

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: SP 2 @ 1' (H302143-04)

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	09/09/2013	ND	2.11	106	2.00	7.67	
Toluene*	< 0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	<0.300	0.300	09/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	09/06/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	24.5	10.0	09/06/2013	ND	196	98.0	200	2.92	
Surrogate: 1-Chlorooctane	90.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	96.6	% 63.6-15	4						

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*=Accredited Analyte

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Celey D. Keine



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

Fax To: (575) 397-0397

Received:

09/04/2013

Sampling Date:

08/28/2013

Reported:

Sampling Type:

Soil

DTEV ON 11 P

09/11/2013

Sampling Condition:

Cool & Intact

Project Name: Project Number:

NONE GIVEN

79.0 %

83.4%

65.2-140

63.6-154

SOUTH MATTIX UNIT FED #017

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: SP 2 @ 3' (H302143-05)

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	09/09/2013	ND	2.11	106	2.00	7.67	
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	<0.300	0.300	09/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109	% 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	4320	16.0	09/06/2013	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92	

Analyzed By MC

Sample ID: SP 2 @ 4' (H302143-06)

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	09/06/2013	ND	416	104	400	0.00	

*=Accredited Analyte Cardinal Laboratories

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Celey D. Keine



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

Fax To:

(575) 397-0397

Received:

09/04/2013

Sampling Date:

08/28/2013

Reported:

09/11/2013

Sampling Type:

Soil

Project Name:

SOUTH MATTIX UNIT FED #017

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: SP2 @ 5' (H302143-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2013	ND	2.11	106	2.00	7.67	
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	<0.300	0.300	09/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/06/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92	
Surrogate: 1-Chlorooctane	77.7 5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	81.69	63.6-15	4						

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Celey D. Keene



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

Fax To:

(575) 397-0397

Received:

09/04/2013

Sampling Date:

08/28/2013

Reported:

09/11/2013

Sampling Type:

Soil

Project Name:

SOUTH MATTIX UNIT FED #017

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: SP 3 @ 1' (H302143-08)

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	09/09/2013	ND	2.11	106	2.00	7.67	
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	<0.300	0.300	09/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 %	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	6320	16.0	09/06/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	30.1	10.0	09/06/2013	ND	196	98.0	200	2.92	
Surrogate: 1-Chlorooctane	86.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	95.0	% 63.6-15	4						

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Fax To: (575) 397-0397

Received:

09/04/2013

Sampling Date:

08/28/2013

Reported:

09/11/2013

Sampling Type:

Soil

Project Name:

SOUTH MATTIX UNIT FED #017

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: SP 3 @ 3' (H302143-09)

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	09/09/2013	ND	2.11	106	2.00	7.67	
Toluene*	< 0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	< 0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	< 0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	<0.300	0.300	09/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 %	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	4240	16.0	09/06/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92	
Surrogate: 1-Chlorooctane	80.75	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	87.19	63.6-15	4						

Sample ID: SP 3 @ 4' (H302143-10)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	09/06/2013	ND	416	104	400	0.00	

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

Fax To: (575) 397-0397

Received:

09/04/2013

Sampling Date:

08/28/2013

Reported:

Sampling Type:

Soil

09/11/2013

Sampling Condition:

Cool & Intact

Project Name: Project Number: SOUTH MATTIX UNIT FED #017 NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: SP 3 @ 5' (H302143-11)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2013	ND	2.11	106	2.00	7.67	
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	<0.300	0.300	09/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/06/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92	
Surrogate: 1-Chlorooctane	79.9	% 65.2-14	0	-					
Surrogate: 1-Chlorooctadecane	86.7	% 63.6-15	4						

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Fax To:

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Received:

09/04/2013

Sampling Date:

08/29/2013

Reported:

09/11/2013

Sampling Type:

Soil

Project Name:

SOUTH MATTIX UNIT FED #017

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: SP 4 @ 1' (H302143-12)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2013	ND	2.11	106	2.00	7.67	
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	<0.300	0.300	09/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 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	6000	16.0	09/06/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	28.1	10.0	09/06/2013	ND	196	98.0	200	2.92	
Surrogate: 1-Chlorooctane	85.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	93.2	% 63.6-15	4						

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Received:

09/04/2013

Sampling Date:

08/29/2013

Reported:

Sampling Type:

Soil

Project Name:

09/11/2013

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

SOUTH MATTIX UNIT FED #017

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: SP 4 @ 3' (H302143-13)

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	09/09/2013	ND	2.11	106	2.00	7.67	
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	< 0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	< 0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	<0.300	0.300	09/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 %	% 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	4480	16.0	09/06/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92	
Surrogate: 1-Chlorooctane	84.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	90.1	% 63.6-15	4						

Sample ID: SP 4 @ 4' (H302143-14)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	09/06/2013	ND	416	104	400	0.00	

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Fax To:

(575) 397-0397

Received:

09/04/2013

Sampling Date:

08/29/2013

Reported:

09/11/2013

Sampling Type:

Soil

Project Name:

SOUTH MATTIX UNIT FED #017

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

Sample ID: SP 4 @ 5' (H302143-15)

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	09/09/2013	ND	2.11	106	2.00	7.67	
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	< 0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	< 0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	<0.300	0.300	09/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/06/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92	
Surrogate: 1-Chlorooctane	69.7 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	69.8 9	63.6-15	4						

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Fax To: (575) 397-0397

Received:

09/04/2013

Sampling Date:

08/29/2013

Reported:

09/11/2013

Sampling Type:

Soil

Project Name:

SOUTH MATTIX UNIT FED #017

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: SP 5 @ 1' (H302143-16)

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	09/09/2013	ND	2.11	106	2.00	7.67	
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	<0.300	0.300	09/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112 %	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	09/06/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	24.9	10.0	09/06/2013	ND	196	98.0	200	2.92	
Surrogate: 1-Chlorooctane	84.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	95.0	% 63.6-15	4						

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Fax To: (575) 397-0397

Received:

09/04/2013

Sampling Date:

08/29/2013

Reported:

09/11/2013

Sampling Type:

Soil

Project Name:

SOUTH MATTIX UNIT FED #017

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: SP 5 @ 3' (H302143-17)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	09/09/2013	ND	2.11	106	2.00	7.67	
Toluene*	< 0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	< 0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	<0.300	0.300	09/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 %	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	3340	16.0	09/06/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92	
Surrogate: 1-Chlorooctane	83.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	91.0	63.6-15	4						

Sample ID: SP 5 @ 4' (H302143-18)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	09/06/2013	ND	416	104	400	0.00	

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Fax To: (575) 397-0397

Received:

09/04/2013

Sampling Date:

08/29/2013

Reported:

09/11/2013

Sampling Type:

Soil

Project Name:

SOUTH MATTIX UNIT FED #017

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: SP 5 @ 5' (H302143-19)

BTEX 8021B	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	09/09/2013	ND	2.11	106	2.00	7.67	
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	<0.300	0.300	09/09/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/06/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: AR					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/06/2013	ND	205	102	200	3.20	
DRO >C10-C28	<10.0	10.0	09/06/2013	ND	196	98.0	200	2.92	
Surrogate: 1-Chlorooctane	78.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	82.8	% 63.6-15	4						

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*=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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(505) 393-2326 FAX (505) 393-2476	6			101
Company Name:	BBC International, Inc.		1 1/2/W	ANALYSIS REQUEST	UEST
Project Manager:	: Cliff Brunson		P.O. #		
Address: P.O.	P.O. Box 805		Company:		
city: Hobbs	State: NM	Zip: 88241	Attn:		
Phone #: 575-397-6388	Fax #:	575-397-0397	Address: SAME		
Project #:	Project Owner:	MO	City:		
Project Name:	SOUTH MATTIX Unit	RO#017	State: Zip:		
Project Location:			Phone #:		
Sampler Name:			Fax #:		
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
Lab I.D.	Sample I.D.	RAB OR (C)OM ONTAINERS OUNDWATER STEWATER L	JDGE HER: D/BASE: / COOL HER:	THIOM TPH BTE	
10001	1.0105	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	V 81813 V	1125 220	
2	7 62'	0		148	
N	20	7	13/	7 - 7 802	
-	Sp2@1.	7	3/	234 000	
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7	000		1. 81.9.8	511 - 0 - 113	
80	SP301	7	1 21.81.6 1	3 1 1	
20	80	12	8.613 2	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
PLEASE NOTE: Liability and Dam	PLEASE NOTE: Liability and Damages. Cardinal's fiability and client's exclusive remedy for any dains arising whether based in contract or tort, shall be limited to the amount paid by the client for the socilable and including those for nonlineared any other cause whatsoewer shall be deemed unless made in writing and resolved by Cardinal within 30 days after completion of the socilable.	ny claim arising whether based in con	ract or tort, shall be limited to the amount paid by the	e client for the defon of the applicable	
service. In no event shell Ca affiliates or successors arisin	mayean. At Cassa including shops for ingrigation and any own cause missioned man be seened assessed assessed in the carried state of including without limit service. In no event shell Confined is little for including without limit services or successors shiring out of or related to the performance of services hereunder by Cardinal, reca	without limitation, business interruptions, loss a ardinal, regardless of whether such daim is ba	quental demagas, fortal previous merca de l'acceptant de l'acceptant de l'acceptant de l'acceptant de l'accept quental demagas, fortals qu'étocs finalister, business interruptions, loss of use, o toss of postis incuration of services hereunder by Cardinal, reserdess of whether such daim is based upon any of the above stated reasons of	d by client, its substantes, ed reasons or otherwise.	
() E	2 Hearandiz Time: 5:060	Received By:	tane	Phone Result:	
Relinquished By:	houlth	Type: 50 DOM A	5		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	(Circle One) Bus - Other:	Sample Condition	Intact In that's		
		- C NO	NO THE		

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476			2
ompany Name: BBC International, Inc.	ALLEN SEPTEMBER	ANALYSIS REQUEST	_
oject Manager: Cliff Brunson	P.O. #:		
ddress: P.O. Box 805	Company:		
Hobbs State: NM Zin: 88241	Attn:		. *

Company Name: BBC International, Inc.	100 614		ANALYSIS REQUEST
Cliff Brunson		P.O. #:	
Address: P.O. Box 805		Company:	
City: Hobbs State: NM	Zip: 88241	Attn:	
5-397-6388 Fax #:	575-397-0397	Address: SAME	
Project #: Project Owner:	oxy	City:	
Project Name: SOUTH MOTIX	1/2 1 FE 0#017 State:	tate: Zip:	
Project Location: Hay # 128		Phone 非:	
Sampler Name: Page Haprandez		Fax #:	
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	2
	RS		LUDI.
Sample	DGE	HER: D/BASE / COOL HER:	CH
HIJOCH TENIZOCH	GR WA SO OIL	AC	
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137 63	01	JUN 811811916	100
	7	00/ 11 80 8	7
15 05	0/	1878.13 108	1
S	6/	6.10:13 134	400
7	2/	1 8 26 13 705	000
18 64	7	1 8.10.13 212	1
19 25.	7	1 8 19 13 219	000
PLEASE NOTE: Liability and Damagos. Cardina's liability and client's exclusive remedy for any data arising whether based in contract or tort, shall be limited to the amount paid by the client for the	y daim arising whether based in contract or	tort, shall be limited to the amount paid by the client for the	
PLEASE NOTE: Liability and Damages, Cardinal's hability and client's exclusive remous for an	y claim ansing whether based in winess or	fort, shall be illined to the amount bald by the client for the	

Date: 4.13

Phone Result: Fax Result: REMARKS:

Sampler - UPS - Bus - Other:

Relinquished B

Delivered By: (Circle One)

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41.00

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