# Bratcher, Mike, EMNRD

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

Friday, August 26, 2011 9:13 AM Sent:

Bratcher, Mike, EMNRD To:

Dusty Wilson; Ken Swinney; Jennifer Gilkey Cc:

Subject: Oxy-McKittrick 11-5

Attachments: Oxy-McKittrick 11-5-Diagram and lab data.pdf

Mike,

This e-mail is to confirm our conversation of August 25, 2011 concerning the remediation plan for the Oxy McKittrick 11-5. As discussed, Oxy will remove 6 inches to 1 foot of impacted soil in the spill area as depicted in the attached map. The site will then be backfilled with clean soil. I have attached the map and lab data that we discussed for your files.

If you would please reply back with your concurrence on this path forward, it would be greatly appreciated.

Thank you for your time.

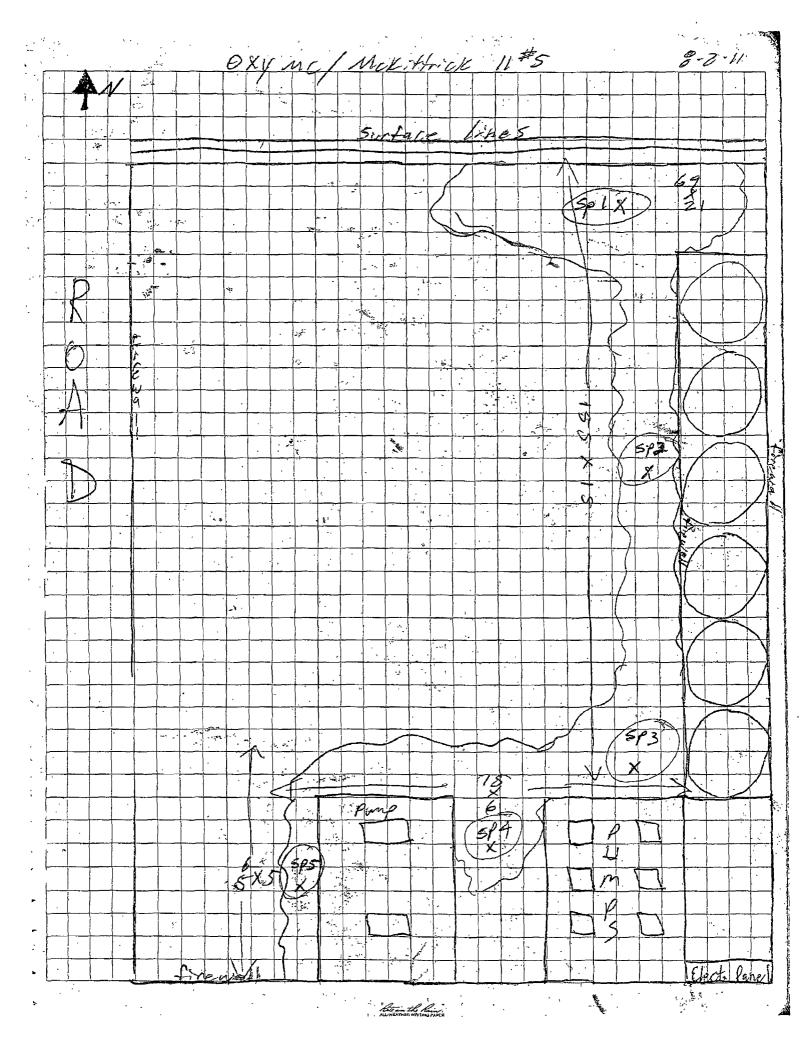
Cliff

Cliff 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

Confidentiality Notice: This electronic transmission (and any attached documents) is intended only for the person(s) to whom it is addressed and may contain information that is privileged, confidential, or otherwise protected from disclosure. If you have received this transmission in error, please immediately notify the sender by e-mail or by telephone call to (575) 397-6388 for handling instructions. Any disclosure or distribution of the contents of this transmission by anyone other than the named recipient(s) is strictly prohibited.

\*



<del></del>	<u> exy</u>	ne	UCK. Ff	ick !!	#5	·	
				· · ·			
ID	Depth	Date	-66-	oder	Line	Soil	Lype
				1.			11.
30 1 a	Juntale	8-2-11	450	NO	138	. 641	i che / Roy
	14		200	NO	150	C	in / Rock
	2FI		100	, ND	212		
, .	77	· · · · · · · · · · · · · · · · · · ·			1 (		liche/foc
170		8.3.11	/ • •	4	845	<u></u>	which e / You
50 CE	Surface	0 2.11	600	No	0.72		/ /
	214	The state of the s	175	NO	919		I du f flor
	· 2H	- (x, 's)	150	NO	939	·	l'ale fork
<del></del>		-	<u> </u>	· · · · · · · · · · · · · · · · · · ·	50		<i>V</i> .
5p3@	Infice	8.3.11	2000	NE	1030		ulich /foe,
3.1.17	174	****	150	No	1119	C	b-h- Thoch
	7.14		150	No	- 1141		derlie Parl
• ,		· · ·				3	
5040	Sufoce	8.3.11	240	NO	1200		1. the / fock
		i					1
5 60	· P	8-3-11.	000	NO	1209	-	while / Poc
5p50	101		136 , 436	100	\$ 109		
<del></del>	271	25 (	200:	J. Are Almania	3/2/	<i></i>	Catila / Be
<del></del>	2Ft	Refusel		100		-	
				''5,	<del> </del>	÷	<del> </del>
				~~		<u>'}</u>	<del> </del>
		,			The same of the sa		
<del></del> -		A STATE OF THE STA	( 1 /	ļ · · ·	***************************************		34
	-				1 1 1 1	· ţ	<u> </u>
15	501 1	1-32°	414410				1
	, A	11' 32	47420	Oxy	7		
	,						
	5p2 n	1.32.4	14 22		Kittrick 11	-5-	
•	101		7432	V.L.	4		
<del></del>		h		<del> </del>			
	sp3 N	7 37 4	14.56	Section	on Il		
	2 /2 JU	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1	T 22	S		
	<i>U</i>	1 109 0	74 30	<del>1</del>			
				- R24	E		
<u> </u>	5p4 N		1405	Į.			
	· N	( 124. 4	7451	10	ed Mup 6	W 100f	
				<u> </u>		- •	***
	505 N.	32 4	407		<u> </u>	T	
	1	104 4	1459				
		4	<del></del>				1

17.12.13.15



August 12, 2011

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: MCKITTRICK 11 #5

Enclosed are the results of analyses for samples received by the laboratory on 08/05/11 16:50.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005 Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (V2, V3)

Accreditation applies to public drinking water matrices.

Celeg 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



#### Analytical Results For:

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

(505) 397-0397 Fax To:

Received:

08/05/2011

08/12/2011

Sampling Date: Sampling Type: 08/02/2011

Reported:

MCKITTRICK 11 #5

Soil

Project Name:

Sampling Condition:

Cool & Intact

Project Number: Project Location: NONE GIVEN INDIAN BASIN Sample Received By:

Jodi Henson

#### Sample ID: SP 1 @ SURFACE (H101647-01)

Analyzed By: CK

Analyte

Reporting Limit

Reporting Limit

08/08/2011

Analyzed

Method Blank

% Recovery 108

True Value QC

Qualifier

Chloride

Result 832

Result

16.0

ND

432

RS

BS

400

Qualifier

Sample ID: SP 1 @ 1 FT (H101647-02)

Chloride, SM4500Cl-B	
----------------------	--

Analyte

Analyzed By: CK

Analyzed Method Blank

% Recovery True Value QC

RPD

7.14

RPD

Chloride	<b>16.0</b> 16.0		08/08/2011	ND	432 ·	108	400	7.14
ТРН 8015М	mg/kg		Analyzed By:	ab				S-04

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier GRO C6-C10 <10.0 10.0 08/11/2011 ND 161 80.3 200 1.10 08/11/2011 DRO >C10-C28 12.3 10.0 ND 148 73.9 200 1.09

Surrogate: 1-Chlorooctane

67.6 %

70-130

Surrogate. 1-Chlorooctadecane

71.0%

70-130

#### Sample ID: SP 2 @ SURFACE (H101647-03)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Reporting Limit Analyzed		BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	08/08/2011	ND	432	108	400	7,14	

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Ubblitly and Damages. Cardinal's lightliny and clienc's exclusive remedy for any claim ainsing, whether based in contract or text, shall be limited to the amount pold by dient for analyses. All dams, including these for neglepone and any other cause interactions whether it is a compact waword unless made in writing and recoved by Cardinal within thirty (20) days after complecion of the applicable source. In no event shall cardinal be labele for incidental or consequential damages, including, without limitations, business internutions, loss of use, or loss of profits incurred by client, its substitutives, afflicts or secrecions maning out of or related to the performance of the services hareunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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

Page 2 of 6



# Analytical Results For:

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

Fax To:

(505) 397-0397

Received: Reported: 08/05/2011

08/12/2011

MCKITTRICK 11 #5

Project Name: Project Number:

NONE GIVEN

Project Location:

INDIAN BAŞIN

Sampling Date:

Sampling Type:

08/03/2011 Soil

Sampling Condition:

Cool & Intact

Sample Received By: Jodi Henson

Sample ID: SP 2 @ 1 FT (H101647-04)

Chloride, SM4500Cl-B

Chloride

Chloride

Analyzed By: CK

Analyte

Analyte

Analyte

Analyte

Analyte

Result 48.0 Reporting Limit Analyzed

16.0

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Method Blank ND

BS 432 % Recovery 108

True Value QC

RPD

Qualifier

Sample ID: SP3 @ SURFACE (H101647-05)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: CK

BS

432

400

7.14

Result

2440

Reporting Limit Analyzed

08/08/2011

08/08/2011

Method Blank ND

% Recovery 108

True Value QC 400

RPD

7.14

Qualifier

Sample ID: SP 3 @ 1 FT (H101647-06)

Chloride, SM4500Cl-B

Analyzed By: CK

Method Blank

% Recovery

Chloride

Chloride

Chloride

Result 80.0

16.0

Analyzed 08/08/2011

ND

BS 432

108

True Value QC

RPD

Qualifier

mg/kg

Analyzed By: CK

400

7.14

Sample ID: SP 4 @ SURFACE (H101647-07)

Chloride, SM4500Cl-B

Result

80.0

Result

1150

Reporting Limit

Analyzed 08/08/2011

Analyzed

08/08/2011

Method Blank

BS 432 % Recovery

108

% Recovery

108

True Value OC

RPD 7.14 Qualifier

Sample ID: SP 5 @ SURFACE (H101647-08)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: CK

Method Blank

ND

ND

BS

432

True Value QC

400

400

RPD

7.14

Qualifier

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's Jability and client's excluany other cause whetwoever shall be deemed waked unless made in writing and received by Cardinal within theirty (20) days after completion of the applicable service. In no event shall Cardinal to Earlie the indeferral or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits mounted by client, to subsections, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such dams is based upon any of the above stated reasons or otherwise. Results relate only to the simples identified above. This report shall not be reproduced except in full with written approved of Cardinal Laboratories.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 6



# Analytical Results For:

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

Fax To: (505) 397-0397

Received:

08/05/2011

Sampling Date:

08/03/2011

Reported:

08/12/2011

Sampling Type:

Soil

Project Name:

MCKITTRICK 11 #5

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

INDIAN BASIN

# Sample ID: SP 5 @ 1 FT (H101647-09)

Chloride, SM4500Cl-B	mg,	/kg	Алајуzе	d By: CK			·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/08/2011	ND	432	108	400	7.14	
TPH 8015M	mg,	/kg	Analyze	d By: ab					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	RO C6-C10 <10.0		08/11/2011	ND	161	80.3	200	1.10	
DRO >C10-C28	25.5	10.0	08/11/2011	ND	148	73.9	200	1.09	
Surrogate: 1-Chlorooctane	me 87.3 %		- <del> </del>			,,,,,			
Surrogate: I-Chlorooctadecane	89.9	% 70-130							

Cardinal Laboratories \*=Accredited Analyte

RUBSE NOTE: Unbothly and Damages. Cardinals liability and direct's exclusive remoty for any dain arising, whether based in contract or tork, shall be limited to the amount paid by direct for analyses. All claims, including those for negligence and any other classe whetherever shell be deemed waveed unless made in writing and received by Curdinal which dirth; (30) days after completion of the applicable service. In no cvort shall Cardinal be liable for included or consequential diamages, worklines intervention for instance, there is no control of the applicable service. In no cvort shall Cardinal be liable for included or consequential diamages, which is machined in the applicable service. In no cvort shall Cardinal be liable for included or consequential diamages, whether such diamages, and the control of the applicable service. In no cvort shall Cardinal be liable for including the control of the control of the applicable service. In no cvort shall Cardinal be liable for including those for negligence and any other cardinal cardinal process. All claims, michaeling those for negligence and any other cardinal cardinal behavior of the shall cardinal behavior of

Colary D. Kune



#### Notes and Definitions

5-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CFB does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardenal's leability and client's exclusive remedy for any claim ansing, whether based in contract or tort, chall be limited to the amount paid by client for analysis. All claims, including these for negligence and any other cause whethere shall be desired waived unless made in writing and neceived by Cerdinal within thuty (20) days after completion of the applicable source. In no event shall Cerdinal be libite for incidental or consequential damages, including, without limitation, bushess interruptions, loss of use, or loss of use, or loss of profits accurate by client, its subhabanes, afficients or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless or whether such client is based upon any of the above stored respons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine

# ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

the state of the s						BILL TO						ANALYSIS REQUEST														
Project Manager: Cliff Brunson					P.O. #:								T					T	1	T						
Address: P.O. Box 805						Company:							ĺ	1			İ			-			1	1		
city: Hobbs	State: NM	Zij	p:	882	241			Atı	tn:			•													1	1
Phone #: 575-	397-6388 Fax #: 57	5-39	17-0	39	7			Ad	dre	ss:		·			1											
Project #:	Project Own	er: <i>(</i>	<u>אַכ</u>	Ĺ.	Winds	100	ı.	CI	y:		$\leq$	ANI	2	]									1			
Project Name:	Nevitleek 11#5			/				Sta	ate:			Zlp:					- (							-	1	1
Project Location	1: INCLAN BESIN							Ph	one	#:		******		_			Ì					1				
Sampler Name:	West Chaples								x #:					1	l	-	ı							1		
FOR LAB USE ONLY		١		<u> </u>	MA	TRIX	<u> </u>	-	PRE	SEF	₹V	SAMPL	ING	-		1	1			i	1	]			1	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	CONTAINERS	GROUNDWATER	WATER		111		ISE:	Ž Z				- 70		エジー										
H1011647			# CONT	GROUN		ᇹ	SLUDGE	OTHER	ACID/B/	X JCE / COOL	OTHER:	DATE	TIME		'											
~ <u>1</u>	Splo Sugfora	Ğ	1	╁	Y	1	$\vdash$	_		×.	-	8.7.11	130	L <u>X</u>	L.,		_				-	<del> </del>	.		<u> </u>	<u> </u>
3	Splant.	G	1.	-	1/2	-	┟╌┼	_	-	х. ./	-	6.711	150	X X	X	-	-			ļ	<del></del>	ļ	+		<del> </del>	ļ
し	5020 114	$\frac{1}{C}$	1	╁	1	-		-	$\vdash$	<del>7</del>	$\dashv$	5-5-11	919	1						<del> </del>	+		┼	<del> </del>		
3	5036) Surtice	1	17	-	1	1		7	$  \uparrow  $	7.	Ť	<u> </u>	1630	1	l	_					<del> </del>		-	1-		<del> </del>
10	5 P 3 Q 1 F+	Ç	T		1					1	_		1119	X			7	•			†~~		<del> </del>	1	<del>                                     </del>	<del> </del> -
1	SOAD Surta	G	1		1					(		-1	12 co	X												
	50500 Surle	<u>C-</u>	Ц		1			_	$\overline{}$	1			1209	X												
4	5p50 11t	16_			1			_		1-	1		109	X	$\perp$ X	`-				<u></u>		]				
PLEASE NOTE: LIGHING AD	d Damages. Cardinal's Eabrily and clean's exclusive remietly for	any dair	DI 885	na wh	other bases	d in cor	ntrast o	r (gri.	shall (	a host	ec to	the autotot par	d by the client to	, the		ᆚ_				L	ــــــــــــــــــــــــــــــــــــــ	<u> </u>	<u> </u>	<u> </u>	<u></u>	
analyses. All claims including	g those for negligerics and any other cause whateoever shall be utilized to liable for incidental or consequental duranges, include	deemo	d walv	ed unk	est made in	n witini	g and t	ecciv	red by	Ca+d'a	al wit	hin 30 days atte	r completion of t	he applicat	ole											
alfillates or successors onsm	y out of or related to the performance of services here under by	Carrinal	, rege	dinsa	of whether								asous or otherwi	id.			F1 11		h 1.10	- C						
Relinquished By	Date:	Ke		ved	by:		1.	1					Phone Re Fax Resu		<u> </u>		D No	0	Add'l	Phone Fax#:	#;					
Left Sun 12 h						Ø.	U.	11	Ŋį		REMARK	S;														
Relinquished By: Date: Regelved By:					- 20/-	·	, v <del>.</del>			,												•				
Time:																										
Delivered By:	(Circle One)				Sample																					
Sampler - UPS - Bus - Other:  Cool Intact Yes Yes No No				Yes No	s (h)tif(s)																					
4 Cardinal c	ennot accout yoshal abangen. Bloom	n fav	14/01	ttan	chanc	705	to E	ne.	202	2/7	6														-	

#26

Page 6 of 6