## **Closure Report**

Site Description									
Site Name:	Sand Dunes 28 Federal #1 SWD Battery								
Company:	Oxy Permian Ltd.								
Legal Description:	U/L J, Section 28, T23S, R31E								
County:	Eddy County, NM								
GPS Coordinates:	N 32.27385° W 103.78036°								

Release Data										
Dates of Release:	09/08/12, 10/01/12, 03/24/13, 04/22/13, 10/06/14, & 10/23/14									
Type of Release:	Oil and produced water									
Source of Release:	Varies per leak, please see enclosed initial C-141s									
Volume of Release:	Varies per leak, please see enclosed initial C-141s									
Volume Recovered:	Varies per leak, please see enclosed initial C-141s									

	Remediation Specifications
Remediation Parameters:	Excavate the spill according to the attached aerial photo/diagrams. Berm the location and block the southernmost road. Backfill the site with clean soil.
Remediation Activities:	01/21/2016 to 06/24/2016

Plan Sent to OCD:	11/24/2015	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	11/25/2015	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	11/23/2015	Email from Cliff Brunson to Shelly Tucker
BLM Approval of Plan:	11/23/2015	Email from Shelly Tucker to Cliff Brunson

Supporting Documentation									
Initial C-141s	Signed 9/8/12, 10/25/12, 3/27/13, 6/6/13, 10/10/14, & 11/13/14								
Final C-141s	Signed 6/29/16								
Site Diagram	Varies according to the leak dates								
Groundwater Plot	200'-250'								
TOPO Maps	Varies according to the leak dates								
Lab Summary	See enclosed copies								
Lab Analysis	See enclosed copies								
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.

06/29/2016

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

#### State of New Mexico Energy Minerals and Natural Resources

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

Form C-141

Revised October 10, 2003

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

						OPERATOR Initial Report I						Final	Report
Name of Co	mpany	Oxy Permian	ı Ltd.			Contact CJ Summers							
Address 1		tanolind Rd,				Telephone No. (575) 397-8216							
Facility Nan	ne Sand	Dunes 28 Fe	deral #1	SWD		Facility Type Salt Water Disposal							
Surface Ow	ner BLN	M		Mineral O	wner				Lease N	No. API#30	-015-	26194	
				LOCA	TIOI	N OF REI	FASE						
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/V	Vest Line	County			
Omit Letter	Section	TOWNSHIP	Tungo	1 cot nom uto	110141	Douin Enro	1 000 11 0111 0111						
J	28	238	31E	1980'		South	1980'	l	East	Eddy			
			I	Latitude		_ Longitude	9						
				NAT	URE	OF RELI	EASE						
Type of Relea	ise Oil an	d Produced w	ater			Volume of 370 bbls w		oil/	340 bbls				
Source of Rel alarm system	ease Tan	k overflow du	e to pump	failure from short	in	1	our of Occurrenc	е	Date and	Hour of Dis	covery	7	ĺ
Was Immedia	te Notice C	Given?				If YES, To							
		$\boxtimes$	Yes	No 🗌 Not Rea	quired	James Amo	os- BLM, Mike B	ratcher-	OCD				
By Whom?						Date and H							
Was a Watercourse Reached?  ☐ Yes ☑ No  ☐ If YES, Volume Impacting the Watercourse.													
If a Watercou	rse was Im	pacted. Descri	be Fully.*							•			
		ŗ,	, <b>,</b> .										·
Describe Caus	on of Droble	am and Damed	lial Action	Taken *									
A weather sto	rm caused	the alarm to sl	ort out ar	nd the pump to fail	which	made the tanl	coverflow. 2 bbl	s of oil	and 370 bb	ls of water le	eaked	onto th	e
ground. 2 bbl	s of oil and	l 340 bbls of v	vater were	recovered via vac	uum tri	ick.							
Describe Area	Affected a	and Cleanup A	ction Tak	en.*									
The area affec	ted was on	location appr	ovimately	100' x 100' and in	the pa	sture approxi	mately 3' x 200'.	Remed	liation will	be performe	d in a	ccordar	nce
with an OCD					, are pe	our o approsa		200200		F			
T1 1 414	2 11 -4 11 - 1		1	is true and comple	ata ta th	a heat of my	lmowledge and w	nderetan	d that mure	uant to NM(	CD t	ules an	d
I hereby certif	y that the i	ntormation gr	ven above renort an	d/or file certain re	lease n	ne desi of my otifications ar	id perform correct	tive acti	ons for rele	eases which:	may e	ndange	r l
public health	or the envir	onment. The	acceptanc	e of a C-141 repor	t by the	NMOCD ma	irked as "Final Re	eport" de	oes not reli	eve the oper	ator o	f liabili	ty
should their or	perations h	ave failed to a	dequately	investigate and re-	mediate	e contamination	on that pose a thre	eat to gre	ound water	, surface wa	ter, hu	man he	alth
or the environ	ment. In a	ddition <u>, NMO</u>	CD accep	tance of a C-141 re	eport de	oes not relieve	e the operator of r	esponsi	bility for co	ompliance w	ith an	y other	
federal, state,	or local lav	vs and/or regu	lations.	<u> </u>			OIL COM	TDD X	ATION	DIVISIO	NT		
				<del></del>			OIL CONS	OCK V.	AHON	DIVISIO	<u>11</u>		
Signature:	1	$\setminus $											
					,	Approved by	District Superviso	or:					
Printed Name	: Chance	y Summers											
Title: Sr. H.	ES Speciali	ist				Approval Date	Expiration			on Date:			
E-mail Addres	ss: Chan	cey Summers	@oxy.con	n	Conditions of Approval:								
		<i>A.</i>	<del></del> -				-		•	Attached			
Date:			Phone:	(575)397-8216						<u></u>			

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

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

Name of Company

Address

#### State of New Mexico Energy Minerals and Natural Resources

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

Submit 2 Copies to appropriate
District Office in accordance

Form C-141

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

Attached

# Release Notification and Corrective Action OPERATOR Initial Report Final Report Ompany Oxy Permian Ltd. Contact CJ Summers 1017 W. Stanolind Rd, Hobbs, NM Telephone No. (575) 397-8216 The Sand Dunes 28 Federal #1 SWD Facility Type Salt Water Disposal

Facility Name Surface Owner **BLM** Mineral Owner Lease No. API#30-015-26194 LOCATION OF RELEASE Unit Letter Section Feet from the Township North/South Line Range Feet from the East/West Line County 28 23S 31E 1980' South 1980' East Eddy Latitude 32.27385° Longitude 103.78036<sup>a</sup> NATURE OF RELEASE Type of Release Produced water Volume of Release 50 bbls Volume Recovered 0 bbls Source of Release Leak on West Triplex pump Date and Hour of Occurrence Date and Hour of Discovery 10/01/2012 @ 8:00 am Was Immediate Notice Given? If YES, To Whom? Yes No Not Required James Amos-BLM, Mike Bratcher- OCD By Whom? Chancey Summers Date and Hour 10/22/2012 @ 10:55 am Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ☐ No If a Watercourse was Impacted, Describe Fully.\* Describe Cause of Problem and Remedial Action Taken.\* A leak on the west triplex pump caused 50 bbls of water to leak onto the ground. 0 bbls were recovered. The pump was repaired. Describe Area Affected and Cleanup Action Taken.\* The area affected was approximately 3' x 200'. Remediation will be performed in accordance with an OCD and BLM approved remediation plan. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations, **OIL CONSERVATION DIVISION** Signature: Approved by District Supervisor: Printed Name: Chancey Summers Title: Sr. HES Specialist Approval Date: Expiration Date:

Conditions of Approval:

Date: 10-25-12

E-mail Address: Chancey\_Summers@oxy.com

Phone: (575)397-8216

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

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

#### State of New Mexico Energy Minerals and Natural Resources

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

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

Revised October 10, 2003

Form C-141

side of form

						<b>OPERA</b>	ГOR	🛛 Init	ial Report		Fina	l Report
Name of Co	mpany	Oxy Permian	n Ltd.			Contact C	CJ Summers					
Address	1017 W. S	tanolind Rd,	Hobbs, 1	NM		Telephone No. (575) 397-8216						
Facility Nar	ne Sand	Dunes 28 Fe	ederal #1	SWD		Facility Typ	e SWD					
Surface Ow	ner BLM			Mineral C	wner			Lease	No. NM 40	659		
791 (1907) 10 (1909) 10 (1907) 10 (1907)						NOEDE	EACE	20000	101 1111 10	007		
Unit Letter	Castian	Taumahin	Danas	Feet from the		N OF RE		F/W				
Onit Letter	Section	Township	Range	reet from the	North	/South Line	Feet from the	East/West Line	County			
J	28	23S	31E						Eddy			
<b>Latitude</b> <u>N 32.27641°</u> <b>Longitude</b> <u>W 103.78047°</u>												
NATURE OF RELEASE												
Type of Relea		uced water				Volume of	Release 650 bb			590 1		
			to broker	n triplex pump		Date and H 03/24/2013	lour of Occurrenc	e Date and	Hour of Disc	covery	7	
Was Immedia	ite Notice C		_			If YES, To				8 5		
		$\boxtimes$	Yes _	No Not Re	quired	Jennifer Va	in Curen, James A	amos-BLM and M	ike Bratcher-	-OCD		
By Whom?	Chancey S	Summers				Date and H	our 03/25/2013 (	@ 9:08 am				
Was a Watero	ourse Reac			100			lume Impacting th					
			Yes 🛚	No								
If a Watercou	rse was Im	pacted, Descri	be Fully.*	•								
Describe Caus	se of Proble	em and Remed	lial Action	Taken.*								
A broken trip	lex pump ca	aused a tank to	overflow	spilling 650 bbls	of pro	duced water or	nto the ground. 59	90 bbls of produce	d water were	e recov	vered vi	ia
vacuum truck	and the pu	mp was repair	ed.									
Describe Area	Affected a	and Cleanup A	ction Tak	en.*								
		200										
				spilling 650 bbls								ia
vacuum truck	and the pui	mp was repair	ed. Reme	ediation will be pe	rtorme	d in accordance	ee with an approve	ed plan from the N	MOCD and	the Bl	LM.	
I hereby certif	v that the i	nformation giv	en above	is true and comple	ete to t	he best of my	knowledge and ur	derstand that nurs	uant to NMC	)CD r	ules an	d
regulations all	operators	are required to	report an	d/or file certain re	lease n	otifications an	d perform correct	ive actions for rel	eases which	may er	ndange	r
public health	or the envir	onment. The	acceptance	e of a C-141 repor	t by the	e NMOCD ma	rked as "Final Re	port" does not rel	eve the opera	ator of	f liabilit	ty
should their of	perations ha	ave failed to a	dequately	investigate and re	mediat	e contamination	on that pose a thre	at to ground water	, surface wat	er, hu	man he	alth
or the environ federal, state,	ment. In a	dition, NMO	CD accept	tance of a C-141 r	eport d	oes not relieve	the operator of re	esponsibility for c	ompliance wi	ith any	y other	
rederal, state,	or local law	s and/or regul	ations.				OIL CONC	EDVATION	DIVICIO	N.T.		
			_ )				OIL CONS	ERVATION	DIVISIO	<u>IN</u>		
Signature:	** All and Charles	)	$\rightarrow$	<b>S</b>								
5.1 15.	C.I.				33	Approved by I	District Superviso	r:				
Printed Name:	Chance	y Summers			11. 3. 1. 3.							
Title: HES	Specialist					Approval Date	Date: Expiration Date:					
E mail A J J	ou Cl	C	D = 112			C1'' C						
E-mail Addres		cey.Summers@	yoxy.com		— [ '	Conditions of	Approval:		Attached			
Date:												

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

#### State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back

Revised October 10, 2003

Form C-141

side of form

						<b>OPERA</b>	ГOR		Initi	al Report		Final Report
Name of Co		Oxy Permia				Contact CJ Summers						
		tanolind Rd,				Telephone No. (575) 397-8216						
Facility Nar	ne Sand	Dunes 28 Fe	ederal #1	SWD		Facility Typ	e SWD					
Surface Ow	ner BLM			Mineral C	)wner	er Lease No. NM 40659						
				LOCA	TIO	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the	_	n/South Line	Feet from the	East/We	est Line	County		
J	28	23S	31E							Eddy		
Name :	•		I	atitude <u>N 32.2</u>	7641°	Longitu	de <u>W 103.7804</u>	.7°				
				NAT	URF	OF RELI	EASE					
Type of Relea	ase Produ	uced water		21122	CILL	Volume of		bls	Volume F	Recovered	0 bbls	3
Source of Re	lease Pow	er failure/ Tan	k overflov	v		Date and H	our of Occurrenc	e i	Date and	Hour of Dis	covery	-
377 T 11	* * * * * * * * * * * * * * * * * * * *	7. 0				04/22/2013						
Was Immedia	ite Notice (		Yes	No 🔲 Not Re	anired	If YES, To	Whom? os-BLM and Mike	a Protoho	· OCD			
			103		.quii cu	James Ame	S-DLM and Mike	e Bratener	-OCD			
By Whom?							our 04/22/2013 (					
Was a Watero	course Reac	thed?	Yes 🛚	No		If YES, Vo	lume Impacting t	he Watero	course.			
If a Watercou	ree was Im	nacted Descri	ha Fully *									
II a Watercou	rse was III	pacted, Descri	be fully.									
Describe Cau	se of Proble	em and Remed	lial Action	Taken *								
A power failu	re at the sit	e caused 300 l	obls of pro	duced water to le	ak onto	o the ground. 1	No fluids were rec	covered a	nd the po	wer was rest	ored to	the site.
Describe Area	Affected a	and Cleanup A	ction Tak	en.*				· · · · · ·				
The area affec	eted is 400°	x 100'. A nov	ver failure	at the site caused	1 300 h	hls of produce	d water to leak or	ato the or	ound No	fluide wara	rocore	wad and tha
power was res	stored to the	e site. Remedi	ation will	be performed in a	accord	ance with an ap	pproved plan from	n the NM	OCD and	the BLM.	TECOVE	acu anu me
I hereby certif	y that the o	ntormation giv	en above	is true and compl d/or file certain re	ete to t	he best of my l	knowledge and ur	nderstand	that purs	uant to NM(	)CD ru	les and
public health	or the envir	onment. The	acceptance	e of a C-141 repor	rt by th	e NMOCD ma	u periorm correct rked as "Final Re	uve acuor enort" doe	is for rele s not relia	ases which i eve the oper	nay en ator of	danger liability
should their o	perations ha	ave failed to a	dequately	investigate and re	mediat	te contamination	on that pose a thre	at to grou	ind water.	. surface wat	ter, hun	nan health
or the environ federal, state,	ment. In a	ddition, NMO	CD accept	ance of a C-141 r	eport d	loes not relieve	the operator of r	esponsibi	lity for co	mpliance w	ith any	other
rederal, state,	or rocal lav	vs and/or regul	ations.	-			OIL CONS	TEDILA	TION	DIMIGIO	N.T.	
						OIL CONS	BERVA	TION	DIVISIO	<u>IN</u>		
Signature:		***										
Printed Name:	Chance	y Summers			•	Approved by I	District Superviso	or:				
Title: HES	Specialist			Approval Date	8	Ex	piration I	Date:				
E-mail Addres	ss: Chanc	ey.Summers@	oxy.com			Conditions of	Approval:			_		
_	-						( T			Attached		į
	/06/2013	4 TCNT		one: (575) 397-82	216							
Attach Additi	onai Shee	ts II Necessa	ry									

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

#### State of New Mexico Energy Minerals and Natural Resources

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

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

						OPERA'	ΓOR	$\boxtimes$	Initi	al Report		Final Repo	
Name of Co		Oxy Permiai				Contact CJ Summers							
		tanolind Rd,				Telephone No. (575) 397-8216							
Facility Nar	ne Sand	Dunes 28 Fe	deral #1	SWD Battery		Facility Typ	e Battery						
Surface Ow	ner BLM			Mineral O	wner			A	PI No	. 30-015-2	6194		
				LOCA	TIO	N OF REI	FACE						
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	Foot/West	ast/West Line   County				
		TOWNSHIP	rango	1 cot from the	1101111	South Line	r cet nom the	/West Line   County					
J	28	23S	31E							Eddy		<del></del>	
			I	atitude <u>N 32.23</u>	7336°	Longitu	de <u>W 103.7803</u>	<u>1°</u>					
				NAT	URE	OF RELI	EASE						
Type of Relea	ase Produ	iced water			<u>.</u>	Volume of		s Vo	lume F	Recovered	0 bbls	}	
		le on discharg	e header a	t the east injection	1		our of Occurrence			Hour of Disc	overy		
pump was off		V' 0				10/06/2014							
Was Immedia	ite Notice C		Ves 🗆	No 🗌 Not Re	anired	If YES, To	Whom? her-NMOCD, Sol	Unahaa Di	ъ.				
				<del></del>	quii cu	WIKE DIAC	ner-minoco, sor	nugnes-bi	_ <b>1</b> VI				
By Whom?		vis @ BBC In	ternationa	l, Inc.			our 10/07/2014 @						
Was a Watercourse Reached?  ☐ Yes ☑ No  If YES, Volume Impacting the Watercourse.													
If a Watercou	rse was Imp	acted, Descri	be Fully.*			<b>.</b>							
Describe Caus	se of Proble	m and Remed	ial Action	Taken.*									
The nipple on recovered and	the dischar	ge header at th was replaced.	ne east inj	ection pump was o	off allov	wing 67 bbls o	of produced water	to leak onto	the gr	round. No fl	uids w	ere	
Describe Area	Affected a	nd Cleanup A	ction Take	en.*									
The affected a plan approved	rea is appro by NMOC	oximately 50'; D and the BLI	x 100' on M.	location and 10' x	: 100' o	off location. F	temediation will b	e completed	d in acc	cordance wit	a ren	nediation	
regulations all public health of should their of	operators a or the enviro perations ha ment. In ad	re required to onment. The a rve failed to ac Idition, NMOC	report and acceptance lequately i CD accept	is true and comple d/or file certain rele e of a C-141 repor investigate and rel ance of a C-141 re	lease no t by the nediate	otifications an NMOCD ma contamination	d perform correcti rked as "Final Rej n that pose a threa	ive actions f port" does n at to ground	for rele ot relie water.	ases which neve the opera	nay end tor of i	danger liability nan health	
		\( \tag{-1}	The same of the sa				OIL CONS	ERVATI	ON I	DIVISIO	<u></u>		
Signature:	(		-	$\geq$						•	_		
Printed Name:	Chancey	/ Summers		5	A	Approved by I	District Supervisor						
Title: HES	Advisor				Α	Approval Date:			Expiration Date:				
E-mail Address: Chancey.Summers@oxy.com  Conditions of Approval:  Attached   Phone: (575) 397-8216													
Attach Additi	onal Sheet	s If Necessar											

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

#### State of New Mexico Energy Minerals and Natural Resources

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

Revised October 10, 2003 Submit 2 Copies to appropriate District Office in accordance

Form C-141

with Rule 116 on back side of form

						OPERA'	ГOR	tial Report		Final Repor		
Name of Co		Oxy Permian				Contact CJ Summers						
Address		tanolind Rd,				Telephone No. (575) 397-8216						
Facility Nar	ne Sand	Dunes 28 Fe	ederal #1	SWD Battery		Facility Typ	e Battery					
Surface Ow	ner BLM			Mineral C	wner	er API No. 30-015-2619						
				LOCA	TIO	N OF REI	FASE					
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/West Line	County			
J	, ,	225	2117									
J	28	238	31E						Eddy			
			ı	atitude <u>N 32.2</u> N A T		Longitu OF RELI	de <u>W 103.7803</u> F <b>A S F</b>	<u>1°</u>				
Type of Relea	ase Produ	iced water		INAI	UKE	Volume of		e Volume	Recovered	0 bbls		
			e header a	it the west injection	)n		our of Occurrence		d Hour of Dis		-	
pump was off	?				,,,,	10/23/2014		C Bate an	a riour of Dis	JOVELY		
Was Immedia	ite Notice G					If YES, To						
		M	Y es	No 🗌 Not Re	equired	Mike Bratc	her, Heather Patte	erson-NMOCD,	Sol Hughes-B	LM		
By Whom?		vis @ BBC In	ternationa	l, Inc.		Date and H	our 10/24/2014 (	@ 8:39 am				
Was a Watercourse Reached?  ☐ Yes ☑ No  ☐ If YES, Volume Impacting the Watercourse.												
If a Watercou	rse was Imp	acted, Descri	be Fully.*					<del>"</del>				
	_		•									
Describe Cau	se of Proble	m and Remed	lial Action	Taken.*		1811-18				-		
The nipple on recovered and	the dischar	ge header at tl was replaced.	he west in	jection pump was	off all	owing 22 bbls	of produced water	r to leak onto the	ground. No	fluids v	vere	
Dogguilas Augs	A CC at ad a	ad Classics A	-4! 'T-1-						<u> </u>			
Describe Area	i Affected a	nd Cleanup A	ction Take	en. T								
The affected a approved by N	rea is appro MOCD and	eximately 12'd the BLM.	x 100' on	location and 5' x	100' o:	ff location. Re	emediation will be	e completed in ac	cordance with	ı a rem	ediation plan	
I hereby certif	y that the in	formation giv	en above	is true and compl	ete to tl	he best of my	knowledge and un	nderstand that pu	rsuant to NM(	OCD rt	iles and	
regulations all	operators a	ire required to	report and	d/or file certain re	lease n	otifications an	d perform correct	ive actions for re	leases which	may en	danger	
should their or	or the environe ha	onment, The a	acceptance decuately	of a C-141 repor	rt by the	e NMOCD ma	rked as "Final Re on that pose a thre	port" does not re	lieve the oper	ator of	liability	
or the environ	ment. In ad	ldition, NMO	CD accept	ance of a C-141 r	eport d	oes not relieve	the operator of re	esponsibility for	er, surface wa compliance w	er, nur ith anv	nan neam other	
federal, state,	or local law	s and/or regul	ations.		-r		op craver or r		omphano n	tun cany	Cinot	
			. ,	)			OIL CONS	SERVATION	I DIVISIO	N		
Signature:			$\geq <$									
Bigilature.						Ammoriad by 1	District Comments					
Printed Name:	Chancey	Summers				Approved by i	District Supervisor	·r:				
Title: HES	Advisor					Approval Date	<b>:</b>	Expiration	Date:			
E-mail Addres	s: Chanc	ey.Summers@	OXV com			Conditions of	Annroval.					
	1/-/3		5011 .COIII			Conditions Of	approvat.		Attached			
Date: /	///			ione: (575) 397-8	216							
Attach Additi	onal Sheet	e If Nacecoa	<b>1*3</b> 7									

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

#### State of New Mexico Energy Minerals and Natural Resources

Revised August 8, 2011

Form C-141

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15,29 NMAC.

Attached

## Release Notification and Corrective Action OPERATOR Initial Report Final Report Ltd. Contact Casey Summers TX 79705 Telephone No. (575) 513-8289

Name of Company Oxy Permian Ltd. Address 6 Desta Drive, Midland, TX 79705 Facility Name Sand Dunes 28 Federal #1 SWD Battery Facility Type SWD/Battery Surface Owner BLM Mineral Owner API No. 30-015-26194 LOCATION OF RELEASE Unit Letter Section Feet from the North/South Line Township Range Feet from the East/West Line County 28 23S 31E 1980' South 1980 East Eddy County, NM Latitude N 32.27385° Longitude W 103.78036° NATURE OF RELEASE Type of Release Oil and produced water Volume Recovered 2 bbls oil, Volume of Release 2 bbls oil. 370 bbls produced water 340 bbls produced water Source of Release Tank overflow due to pump failure from a short in Date and Hour of Occurrence Date and Hour of Discovery the alarm system 09/08/2012 Was Immediate Notice Given? If YES, To Whom? Mike Bratcher-NMOCD; James Amos- BLM By Whom? Chancey Summers, Oxy Permian Date and Hour 09/10/2012 @ 9:55 am Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ☒ No If a Watercourse was Impacted, Describe Fully,\* Describe Cause of Problem and Remedial Action Taken.\* A weather storm caused the alarm to short out and the pump to fail which made the tank overflow causing 2 bbls of oil and 370 bbls of produced water to leak onto the ground. A vacuum truck recovered approximately 2 bbls of oil and 340 bbls of produced water. Describe Area Affected and Cleanup Action Taken.\* The affected area is approximately 100' x 100' on location and 3' x 200' in the pasture.. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 11/25//2015 and by Shelly Tucker of the BLM via email on 11/23/2015. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature: Approved by Environmental Specialist: Printed Name: Casey NM Environmental Advisor Approval Date: Expiration Date: E-mail Address: <u>Casey.Summers@oxy.com</u> Conditions of Approval:

Phone: (575) 513-8289

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

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

#### State of New Mexico Energy Minerals and Natural Resources

Revised August 8, 2011

Form C-141

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

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

Initial Report

#### **Release Notification and Corrective Action**

**OPERATOR** 

						OPERA:	ΓOR	☐ I	nitial Report	$\boxtimes$	Final Report	
Name of Co	mpany	Oxy Permiar	ı Ltd.		- (	Contact C						
Address 6	Desta Dr	ive, Midland	, TX 797	05	,	Telephone No. (575) 513-8289						
Facility Nar	ne Sand	Dunes 28 F	ederal #1	SWD Battery		Facility Typ	e SWD/Batte	ry				
Surface Ow	ner BLN	Л		Mineral C	lumer	r API No. 30-015-26194						
Burrace OW	iloi DEI	, <u>, , , , , , , , , , , , , , , , , , </u>		Willician	WIICI			ALI	110. 30-013	-2019-	<u></u> J	
				LOCA	TION	OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/West Lin	ne County			
J	28	23S	31E	1980'	Š	South	1980'	East	Eddy Cou	nty, NN	1	
			1	atitude <u>N 32.2</u>	<u>7385°</u>	Longitu	de <u>W 103.78036</u>	<u>5°</u>				
				NAT	URE	OF RELI	EASE					
Type of Relea	ase Produ	iced water				Volume of		s Volum	ne Recovered	0 bbls		
Source of Rel		st Triplex pun	ıp was lea	king			our of Occurrence		nd Hour of Dis			
						10/01/2012						
Was Immedia	ite Notice G		37 🗀	N. (7) N. (7)		If YES, To		4 51				
				No 🗌 Not Re	quirea		her-NMOCD; Jan		M 			
By Whom?		ummers, Oxy	Permian			Date and H		@ 10:55 am				
was a water	Was a Watercourse Reached?  Yes No  If YES, Volume Impacting the Watercourse.											
If a Watercou	rse was Imp	acted, Descri	be Fully.*			<u> </u>						
D 11 C	CD 11	1.D		T 1 *								
Describe Cau	se of Proble	m and Remed	nai Action	Taken.*								
A leak on the	west triplex	pum caused	50 bbls of	water to leak onto	o the gro	ound. No flui	ds were recovered	d. The pump w	vas repaired.			
Describe Area	Affected a	nd Cleanup A	ction Take	en.*								
The affected a	rea is annro	vimately 3, v	200' Re	mediation was co	mnleted	in accordance	e with the remedi	ation plan app	ovad by Milea I	Zrataha	r of	
NMOCD via	email on 11	$\frac{1}{25}$ /2015 and	by Shelly	Tucker of the BI	M via e	mail on 11/2	3/2015.	аноп рып аррі	oved by Mike	Jiaiche	1 01	
T.1 1 1.	S. al a al	<u> </u>		· , 1	1	1	1 1 1	1 11	NR e	0.00		
regulations all	y that the if	itormation giv	en above	is true and compl	ete to th	e best of my l	knowledge and un d perform correct	iderstand that p	oursuant to NM	OCD ru	les and	
public health	or the envir	onment. The	acceptance	e of a C-141 repor	t by the	NMOCD ma	rked as "Final Re	port" does not	relieve the oper	ator of	liability	
should their of	perations ha	ive failed to a	dequately	investigate and re	mediate	contamination	on that pose a three	at to ground w	ater, surface wa	ter, hur	nan health	
or the environ	ment. In ad	ldition, NMO	CD accept	ance of a C-141 r	eport do	es not relieve	the operator of re	esponsibility fo	r compliance w	ith any	other	
federal, state,	or local law	s and/or regul	ations.				011 00370	EDILLER				
	<b>\</b> /						OIL CONS	ERVATIO	<u>N DIVISIC</u>	<u> </u>		
Signature:	M											
Printed Name	Casey	ummers			A	approved by I	Environmental Sp	ecialist:				
Title: NM I	Invironmen	tal Advisor				approval Date	<b>:</b>	Expiration	on Date:			
E-mail Addres	er Cager	.Summers@o	ZV 0023			Conditions of	Approxial.					
\[\Lambda\]	o. Casey	Summers@0:	vàrconi		$\dashv$	onamons of	Approvat:		Attached		ļ	
Date:	21-1	( <del>)</del>	Phone:	(575) 513-8289	)							
Attach Additi	onal Sheet	ts If Necessa	rv						·			

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

#### State of New Mexico Energy Minerals and Natural Resources

Revised August 8, 2011

Form C-141

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

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

			Rele	ease Notific	catio	n and Co	orrective A	ction				
						OPERA'	ΓOR	☐ Init	ial Report 🛛 Final Repor			
Name of Co		Oxy Permia		705			Casey Summers	0000				
Address (Facility Nat		ive, Midland Dunes 28 F		SWD Battery		Telephone No. (575) 513-8289 Facility Type SWD/Battery						
			- Caciai // I									
Surface Ow	ner BLN	<u>/1</u>		Mineral C	)wner			API N	o. 30-015-26194			
				LOCA	ATIO	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North	/South Line	Feet from the	East/West Line	County			
J	28	23S	31E	1980'	ĺ	South	1980'	East	Eddy County, NM			
			]	Latitude <u>N 32.2</u>	27641°	Longitu	de <u>W 103.7804</u>	<u>7°</u>				
F***				NAT	URE	OF RELI						
Type of Rele		iced water	. 1 1			Volume of			Recovered 590 bbls			
Source of Re	iease lan	ik overflow di	ue to brok	en triplex pump	-	Date and H 03/24/2013	lour of Occurrenc	e Date and	Hour of Discovery			
Was Immedia	ate Notice C		Yes	No ☐ Not Re	equired	If YES, To Mike Brate		nnifer Van Curen,	James Amos- BLM			
By Whom?		Summers, Oxy	/ Permian			Date and H		3 @ 9:08 am				
Was a Watero	course Reac		Yes 🗵	No		If YES, Vo	lume Impacting t	he Watercourse.				
If a Watercou	rse was Imi											
,		, 2000										
D!1 C	CD1-1-	1.0	1. 1. 4. 4.	/T 1 %				<del></del>				
Describe Cau	se of Proble	m and Remed	dial Action	n Taken.*								
A broken trip	lex pump ca	used a tank to	o overflow	v spilling 650 bbls	of pro	duced water or	nto the ground. A	vacuum truck re	covered 590 bbls of produced			
water and the	pump was	repaired.										
Describe Area	a Affected a	nd Cleanup A	Action Tak	en.*								
The affected a	rea is appro	oximately 350	)' x 75' bo	oth on and off loca	ition. R	emediation wa	as completed in a	ccordance with th	e remediation plan approved by			
Mike Bratche	r of NMOC	D via email o	in 11/25//2	2015 and by Shell	y Tucke	er of the BLM	via email on 11/2	23/2015.	v temodianon pron approved by			
I hereby certif	v that the i	1formation give	ven above	is true and compl	ete to t	he best of my	knowledge and u	nderstand that nur	suant to NMOCD rules and			
regulations all	l operators a	are required to	report an	d/or file certain re	elease n	otifications an	d perform correct	tive actions for rel	eases which may endanger			
public health of should their or	or the envir perations ha	onment. The	acceptanc dequately	e of a C-141 repo	rt by the	e NMOCD ma e contaminatio	irked as "Final Re	eport" does not rel	ieve the operator of liability r, surface water, human health			
or the environ	ment. In ac	ldition, NMO	CD accep	tance of a C-141 r	eport d	oes not relieve	the operator of r	esponsibility for o	compliance with any other			
federal, state,	or local law	s and/or regu	lations.				OH COM	NEDITA ERION	Bungiosi			
	/ /						OIL CONS	SERVATION	DIVISION			
Signature:	MI											
Printed Name	: Casey	ummers	***			Approved by I	Environmental Sp	ecialist:				
Title: NM I	Environmen	tal Advisor	<del> </del>			Approval Date	o:	Expiration	Date:			
E-mail Addres	ss: <u>Casey</u>	.Summers@o	xy.com			Conditions of	Approval:		Attached			
Date:	29-1	G	Phone:	(575) 513-8289	,		,		zaturoneu [_]			

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

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

#### State of New Mexico Energy Minerals and Natural Resources

Revised August 8, 2011

Form C-141

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

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

Initial Report

#### Release Notification and Corrective Action

**OPERATOR** 

	_ <del>`_</del>	Name of Company Oxy Permian Ltd.						Contact Casey Summers				
		rive, Midland				Telephone No. (575) 513-8289						
Facility Nar	ne Sano	Dunes 28 F	ederai #1	SWD Battery	, ,	Facility Typ	e SWD/Batte	ry				
Surface Ow	ner BLI	M		Mineral Ov	wner			API No	0. 30-015-26194			
						OF REI	LEASE		-			
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/West Line	County			
J	28	23S	31E	1980'		South	1980'	East	Eddy County, NM			
			1	Latitude <u>N 32.27</u>	<u>′641°</u>	Longitue	de <u>W 103.78047</u>	<u>7°</u>				
				NATU	URE	OF RELI						
Type of Relea		iced water		0.21		Volume of			Recovered 0 bbls			
Source of Rel	lease I an	k overflow dı	ie to powe	r failure		Date and H 04/22/2013	our of Occurrence	e Date and	Hour of Discovery			
Was Immedia	ite Notice C					If YES, To		· ·				
				No  Not Req	uired		her-NMOCD; Jan					
By Whom?			Permian			Date and H		@ 11:03 am				
Was a Watercourse Reached?  ☐ Yes ☑ No  If YES, Volume Impacting the Watercourse.												
If a Watercou	rse was Im	oacted, Descri	be Fully.*									
	-	•	•									
				1								
Describe Caus	se of Proble	em and Remed	lial Action	Taken,*								
A power failu	re at the sit	e caused 300	obls of pro	duced water to leal	k onto	the ground. 1	No fluids were rec	overed and the po	wer was restored to the site.			
Describe Area	Affected a	and Cleanup A	ction Tak	en.*	<b>-</b>							
The offered -	•	!4-1 400	1.002	D 1' .'	1.		2.01		11 357 73 4			
				Remediation was c Tucker of the BLM				ediation plan appro	oved by Mike Bratcher of			
I hereby certif	y that the in	nformation give	en above	is true and complete	te to the	e best of my l	cnowledge and un	derstand that purs	uant to NMOCD rules and eases which may endanger			
public health	or the envir	onment. The	acceptance	e of a C-141 report	ease no bv the	NMOCD ma	d perform correct rked as "Final Re	ive actions for rele nort" does not reli	eve the operator of liability			
should their of	perations ha	ave failed to a	dequately	investigate and ren	nediate	contamination	on that pose a thre	at to ground water	, surface water, human health			
or the environ federal, state,	ment. In ac	idition, NMO	CD accept	ance of a C-141 re	port do	es not relieve	the operator of re	esponsibility for co	ompliance with any other			
rederal, state,	or local law	s and/or regu	ianons.				OIL CONS	ERVATION	DIVISION			
<b>~</b> 1	1 1						OIL CONS	ERVATION	DIVISION			
Signature:	-M			***	╡.							
Printed Name:	: Casey S	ummers			A	pproved by I	Environmental Sp	ecialist:				
Title: NM F	Environmen	tal Advisor			A	pproval Date	<u>:</u>	Expiration I	Date:			
E-mail Addres	s: Casev	.Summers@o	xv.com			onditions of	Approval·					
0	-28	-10				Solicition of ripprovide			Attached			
Date: C	te: C-27-1C Phone: (575) 513-8289  ach Additional Sheets If Necessary											

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

#### State of New Mexico Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011
amit 1 Copy to appropriate District Office in

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification	and	Corrective	Action
----------------------	-----	------------	--------

Name of Company   Oxy Permian Ltd.	Г						OPERA			Initi	al Report		Final Re	epor
Facility Name														
Surface Owner   BLM														
LOCATION OF RELEASE	Facility Nar	ne Sano	l Dunes 28 F	ederal #1	SWD Battery		Facility Typ	e SWD/Batte	ery					
Unit Letter   Section   Township   Range   Feet from the   North/South Line   Feet from the   East/West Line   County	Surface Ow	ner BL	М		Mineral (	Owner	ner API No. 30-015-26194					4		
Unit Letter   Section   Township   Range   Feet from the   North/South Line   Fect from the   1980'   East   Eddy County, NM      Lafitude   N.32.27336'   Longitude   W.103.780.31°     NATURE OF RELEASE   Nature of Occurrence   Date and Hour of Discovery   Date and Hour of Occurrence   Date and Hour of Occurrence   Date and Hour of Discovery   Not Required   Mike Brancher NMOCD: Soil Hughes BLM   Nature of Nature of Occurrence   Date and Hour of Discovery   Nature of Occurrence   Date and Hour of Discovery   Nature of Occurrence   Nature of Occurrence   Date and Hour of Discovery   Nature of Occurrence   Nature of Occurrence   Date and Hour of Discovery   Nature of Occurrence   Nature of Occurrence   Date and Hour of Discovery   Nature of Occurrence   Date and Hour of Discovery   Nature of Occurrence   Date and Hour of Discovery   Nature of Occurrence   Nature of Occurrence   Date and Hour of Occurrence   Date and Hour of Discovery   Nature of Occurrence   Date and Hour of O					LOCA	ATIO	N OF RE	LEASE						
NATURE OF RELEASE	Unit Letter	Section	Township	Range					East/V	West Line	County			
NATURE OF RELEASE	J	28	23S	31E	1980'		South	1980,		East	Eddy Cour	itv. Ni	М	
Type of Release				I	Latitude <u>N 32.2</u>	27336°	Longitu							
Source of Release Nipple on discharge header at the east injection pump was off Was Immediate Notice Given?					NAT	TURE	OF REL	EASE						
Describe Cause of Problem and Remedial Action Taken.*										Volume F	Recovered	) bbls		
Was Immediate Notice Given?    Yes   No   Not Required   If YES, To Whom?   Wike Bratcher-NMOCD; Sol Hughes-BLM			ple on dischar	ge header	at the east inject	ion			æ					
Mike Bratcher-NMOCD; Sol Hughes-BLM			71 0											
By Whom? Kathy Purvis, BBC International  Was a Watercourse Reached?  Yes No  If a Watercourse was Impacted, Describe Fully.*  Describe Cause of Problem and Remedial Action Taken.*  The nipple on the discharge header at the east injection pump was off allowing 67 bbls of produced water to leak onto the ground. No fluids were recovered and the nipple was replaced.  Describe Area Affected and Cleanup Action Taken.*  The affected area is approximately 50' x 100' on location and 10' x 100' off location. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 11/25//2015 and by Shelly Tucker of the BLM via email on 11/23/2015.  I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a true ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.  OIL CONSERVATION DIVISION  Signature:  Printed Name: Casey Summers  Approved by Environmental Specialist:  Approved by Environmental Specialist:  Conditions of Approval:  Attached  Phone: (575) 513-8289	Was Immedia	ate Notice (		., .										
Was a Watercourse Reached?				Y es	No 📙 Not Re	equired	Mike Brate	cher-NMOCD; So	ol Hughe	es- BLM				
Was a Watercourse Reached?  Yes No  If a Watercourse was Impacted, Describe Fully.*  Describe Cause of Problem and Remedial Action Taken.*  The nipple on the discharge header at the east injection pump was off allowing 67 bbls of produced water to leak onto the ground. No fluids were recovered and the nipple was replaced.  Describe Area Affected and Cleanup Action Taken.*  The affected area is approximately 50° x 100° on location and 10° x 100° off location. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 11/25/2015 and by Shelly Tucker of the BLM via email on 11/23/2015.  I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.  OIL CONSERVATION DIVISION  Signature:  Printed Name: Casey Summers  Approval Date: Expiration Date:  E-mail Address: Casey. Summers@oxy.com  Conditions of Approval:  Attached  Date: C-29 - Conditions of Approval:				rnational			Date and H	Iour 10/07/2014	4 @ 11:	46 am				
Describe Cause of Problem and Remedial Action Taken.*  The nipple on the discharge header at the east injection pump was off allowing 67 bbls of produced water to leak onto the ground. No fluids were recovered and the nipple was replaced.  Describe Area Affected and Cleanup Action Taken.*  The affected area is approximately 50' x 100' on location and 10' x 100' off location. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 11/25/2015 and by Shelly Tucker of the BLM via email on 11/23/2015.  I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.  OIL CONSERVATION DIVISION  Signature:  Printed Name: Casey Summers  Approved by Environmental Specialist:  Conditions of Approval:  Attached   Date: 6-29 6 Phone: (575) 513-8289	Was a Watero	course Read					If YES, Vo	olume Impacting t	he Wate	ercourse.				
Describe Cause of Problem and Remedial Action Taken.*  The nipple on the discharge header at the east injection pump was off allowing 67 bbls of produced water to leak onto the ground. No fluids were recovered and the nipple was replaced.  Describe Area Affected and Cleanup Action Taken.*  The affected area is approximately 50' x 100' on location and 10' x 100' off location. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 11/25//2015 and by Shelly Tucker of the BLM via email on 11/23//2015.  I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.  OIL CONSERVATION DIVISION  Signature:  Approved by Environmental Specialist:  Approved by Environmental Specialist:  Approved by Expiration Date:  E-mail Address: Casey Summers@oxy.com  Phone: (575) 513-8289				Yes 🏻	No									
Describe Cause of Problem and Remedial Action Taken.*  The nipple on the discharge header at the east injection pump was off allowing 67 bbls of produced water to leak onto the ground. No fluids were recovered and the nipple was replaced.  Describe Area Affected and Cleanup Action Taken.*  The affected area is approximately 50' x 100' on location and 10' x 100' off location. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 11/25//2015 and by Shelly Tucker of the BLM via email on 11/23//2015.  I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In Addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.  OIL CONSERVATION DIVISION  Signature:  Approved by Environmental Specialist:  Approved by Environmental Specialist:  Approved by Expiration Date:  Email Address: Casey Summers@oxy.com  Phone: (575) 513-8289	If a Watercou	rse was Im	nacted. Descri	he Fully.*										
Describe Area Affected and Cleanup Action Taken.*  The affected area is approximately 50' x 100' on location and 10' x 100' off location. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 11/25//2015 and by Shelly Tucker of the BLM via email on 11/23/2015.  I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.    OIL CONSERVATION DIVISION	Describe Cau	se of Probl	em and Remed	lial Action	Taken.*	····								
The affected area is approximately 50' x 100' on location and 10' x 100' off location. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 11/25//2015 and by Shelly Tucker of the BLM via email on 11/23/2015.  I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.  OIL CONSERVATION DIVISION  Signature:  Printed Name: Casey Summers  Approved by Environmental Specialist:  Conditions of Approval:  Attached   Conditions of Approval:  Attached   Phone: (575) 513-8289	The nipple on recovered and	the dischar	rge header at t was replaced.	he east inj	ection pump was	off allo	wing 67 bbls	of produced wate	r to leak	onto the g	round. No fl	uids v	vere	
The affected area is approximately 50' x 100' on location and 10' x 100' off location. Remediation was completed in accordance with the remediation plan approved by Mike Bratcher of NMOCD via email on 11/25//2015 and by Shelly Tucker of the BLM via email on 11/23/2015.  I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.  OIL CONSERVATION DIVISION  Signature:  Printed Name: Casey summers  Approved by Environmental Specialist:  Approval Date: Expiration Date:  E-mail Address: Casey.Summers@oxy.com  Conditions of Approval:  Attached   Date: 6-29 - 6 Phone: (575) 513-8289	Describe Area	Affected a	and Cleanup A	ction Tak	en.*									_
plan approved by Mike Bratcher of NMOCD via email on 11/25//2015 and by Shelly Tucker of the BLM via email on 11/23/2015.  I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.  OIL CONSERVATION DIVISION  Signature:  Printed Name: Casey Summers  Approved by Environmental Specialist:  E-mail Address: Casey.Summers@oxy.com  Conditions of Approval:  Attached   Date: 6-29 - 6 Phone: (575) 513-8289			-			1002 .	- CC 1 4' 1	n		1.			41 .4	
regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.  OIL CONSERVATION DIVISION  Signature:  Printed Name: Casey summers  Approved by Environmental Specialist:  E-mail Address: Casey Summers@oxy.com  Conditions of Approval:  Attached Date: 6-29 - 6 Phone: (575) 513-8289	plan approved	l by Mike E	Bratcher of NM	IOCD via	email on 11/25//2	x 100° ( 2015 an	off location, I	Remediation was ucker of the BLM	complet via em	ed in accor ail on 11/23	dance with the days of the day	ne rem	nediation	
Signature:  Printed Name: Casey Summers  Approved by Environmental Specialist:  Title: NM Environmental Advisor  Approval Date: Expiration Date:  E-mail Address: Casey.Summers@oxy.com  Date: 6-29-6 Phone: (575) 513-8289  Approval by Environmental Specialist:  Expiration Date: Expiration Date:	regulations all public health of should their of or the environ	l operators or the envir perations h ment. In a	are required to onment. The ave failed to a ddition, NMO	report and acceptance dequately CD accept	d/or file certain re e of a C-141 repo investigate and re	elease no ort by the emediate	otifications and NMOCD ma contamination	nd perform correct arked as "Final Report that pose a threet the operator of r	tive action eport" de eat to greesponsil	ons for rele oes not relicound water bility for co	ases which reve the opera surface wate mpliance wi	nay er tor of er, hu th any	idanger `liability man health	
Approved by Environmental Specialist:  Title: NM Environmental Advisor Approval Date: E-mail Address: Casey.Summers@oxy.com  Date: 6-29-6 Phone: (575) 513-8289  Approved by Environmental Specialist:  Expiration Date: Attached		$\Lambda / I$						OIL CONS	SERV.	ATION	DIVISIO:	N		
Approved by Environmental Specialist:  Title: NM Environmental Advisor Approval Date: Expiration Date:  E-mail Address: Casey.Summers@oxy.com  Date: 6-29-6 Phone: (575) 513-8289  Approved by Environmental Specialist:  Expiration Date: Attached	Signatura	`~/_		<b>-</b>							<u>-</u>	_		
Title: NM Environmental Advisor  E-mail Address: Casey.Summers@oxy.com  Conditions of Approval:  Attached   Date: 6-29-60  Phone: (575) 513-8289	orgnature.	1												
E-mail Address: Casey.Summers@oxy.com  Conditions of Approval:  Attached   Date: 6-29-6 Phone: (575) 513-8289	Printed Name:	Casey	ummers				Approved by	Environmental Sp	ecialist:	;				
Date: 6-29-16 Phone: (575) 513-8289	Title: NM E	Environmen	tal Advisor			I	Approval Date	e:	E	expiration I	Date:			
Date: 6-29-6 Phone: (575) 513-8289	E-mail Addres	ss: Casev	.Summers@o	ky.com		(	Conditions of	Approval:					- <del>-</del>	
- W. C CO TRAIN. (070) 515 G259	٨	ΔG				<u> </u>		PPr 0 1 tol.			Attached			
ADRIED ACCUMENTAL ADRECT IT INCRESSITY		onal Shee			(575) 513-8289	9						-		

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505

#### State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

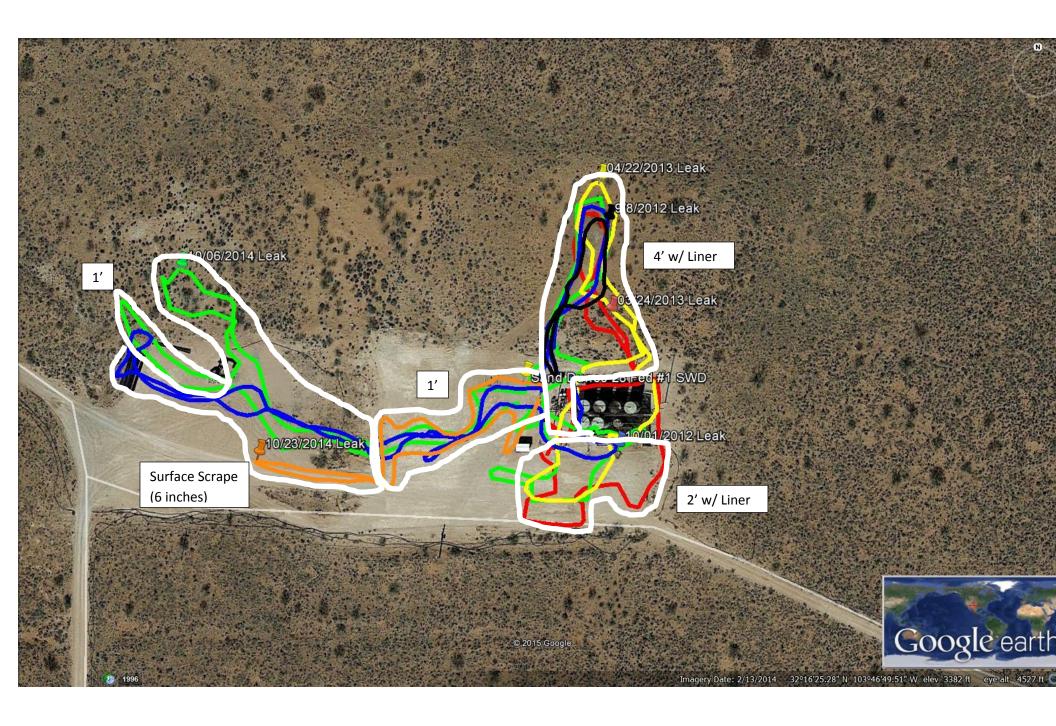
Oil Conservation Division 1220 South St. Francis Dr. Santa Ea NIM 97505

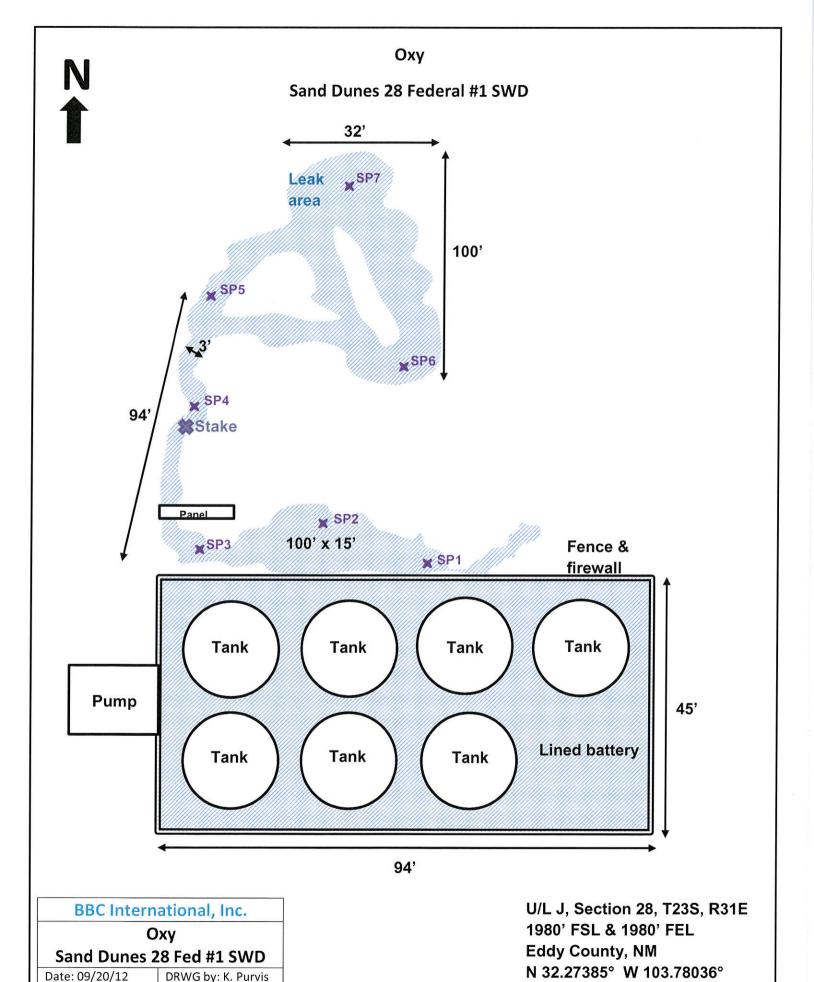
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

	Salita Fe, Nivi 87303										
Release Notification and Corrective Action											
						OPERA'	ΓOR	☐ Initi	al Report	$\boxtimes$	Final Repor
Name of Co	mpany	Oxy Permia	n Ltd.			Contact C	Casey Summers		<del></del>	French	
		ive, Midland				Telephone No. (575) 513-8289					
Facility Nar	ne Sanc	Dunes 28 F	ederal #1	SWD Battery	1	Facility Typ	e SWD/Batte	ery			
Surface Ow	ner BLI	M		Mineral C	Owner	er API No. 30-015-26194					4
				LOCA	ATIO	N OF REI	LEASE				
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/West Line	County		
J	28	23S	31E	1980'		South	1980'	East	Eddy Cou	nty, NN	V[
			]	Latitude N 32.2	.7336°	Longitu	de W 103.7803	1°			
				NAT	TIRE	OF RELI		<del></del>			
Type of Relea	ase Produ	iced water		71711	OILL	Volume of	-	ls Volume F	Recovered	0 bbls	
Source of Re	ease Nip		rge header	at the west inject	ion		our of Occurrence		Hour of Dis-		
pump was of						10/23/2014					
Was Immediate Notice Given?   ☑ Yes □ No □ Not Required					If YES, To Mike Brate		erson-NMOCD; So	ol Hughes- E	BLM		
By Whom? Kathy Purvis, BBC International Date and Hour 10/24/2014 @ 8:39 am											
Was a Watero	ourse Reac		Yes 🛛	No			lume Impacting t				
If a Watercou	raa maa Iron					<u> </u>			<u> </u>		
ir a watercou	ise was iiiij	bacted, Descri	be runy.								
	•										
Describe Cau	se of Proble	m and Remed	lial Action	Taken.*					·		
TTI11	.1 11 1	1 1									
recovered and	the dischar	ge header at t. was replaced	he west in	jection pump was	off all	owing 22 bbls	of produced wate	er to leak onto the g	ground. No	fluids v	vere
		•									
Describe Area	Affected a	nd Cleanup A	ction Tak	en.*							
The affected a	rea is appro	ximately 12'	x 100' on	location and 5' x	100° o	ff location. Re	emediation was co	ompleted in accord	ance with th	e reme	diation plan
approved by M	Iike Bratch	er of NMOCI	) via emai	l on 11/25//2015	and by	Shelly Tucker	of the BLM via	email on 11/23/201	5.	O TOITIO	didilon pian
I harabı gartif	ti that tha is	famostian air		:_ 4		1	1 1 1	1 . 1.1 .			
regulations all	operators a	re required to	renort an	is true and compi d/or file certain re	ete to ti dease n	ne best of my l otifications an	cnowledge and up	nderstand that pursicive actions for rele	uant to NM(	OCD ru	iles and
public health	or the envir	onment. The	acceptance	e of a C-141 repor	rt by the	e NMOCD ma	rked as "Final Re	eport" does not relie	eve the oner	may on	liability
should their of	perations.ha	ive failed to a	dequately	investigate and re	mediat	e contamination	n that pose a thre	at to ground water,	. surface wat	er. hur	nan health
or the environ	ment. In ac	ldition, NMO	CD accept	ance of a C-141 r	eport d	oes not relieve	the operator of r	esponsibility for co	mpliance w	ith any	other
federal, state,	federal, state, or local laws and/or regulations.										
	$\Delta I$						OIL CONS	<u>ERVATION</u>	<u>DIVISIO</u>	N	
Signature:	WI				i						
	<del>//  </del>					Anneoved by I	Parimon mantal Cu	o ai aliate			
Printed Name: Casey Summers Approved by Environmental Specialist:											
Title: NM E	nvironmen	tal Advisor				Approval Date	:	Expiration I	Date:		
E-mail Addres	s; Casev.	Summers@ox	xv.com			Conditions of	Annroval·				
		*	.,	<del></del>		Consistentia UI.		Attached	П		

\* Attach Additional Sheets If Necessary

Phone: (575) 513-8289

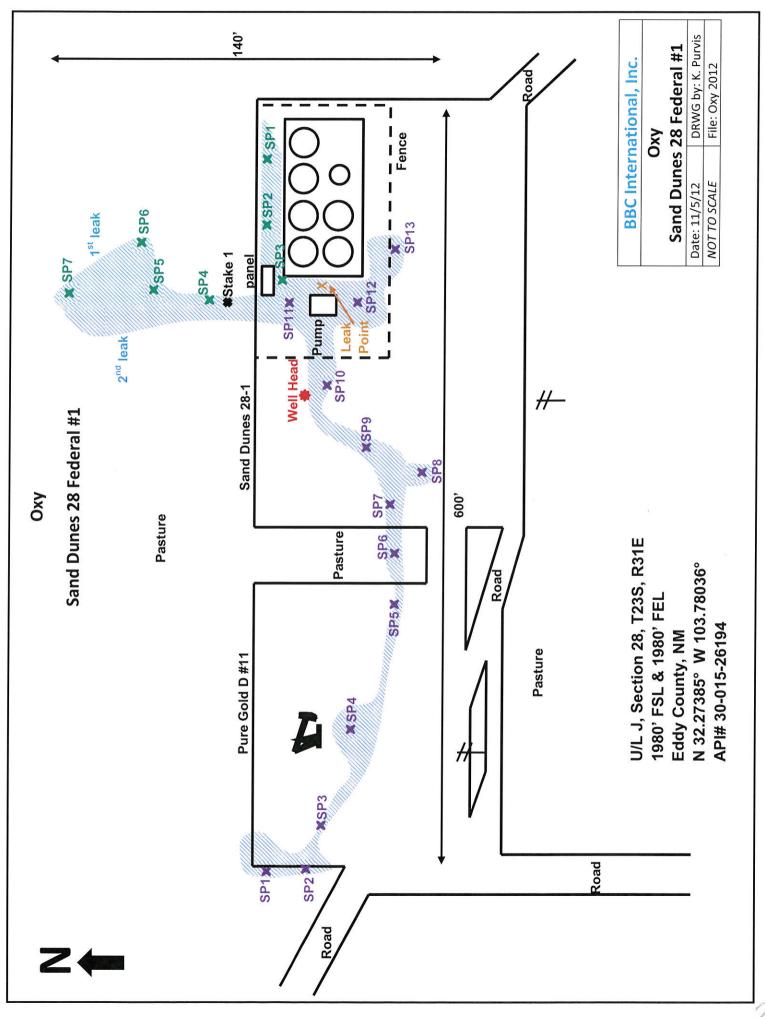




API# 30-015-26194

NOT TO SCALE

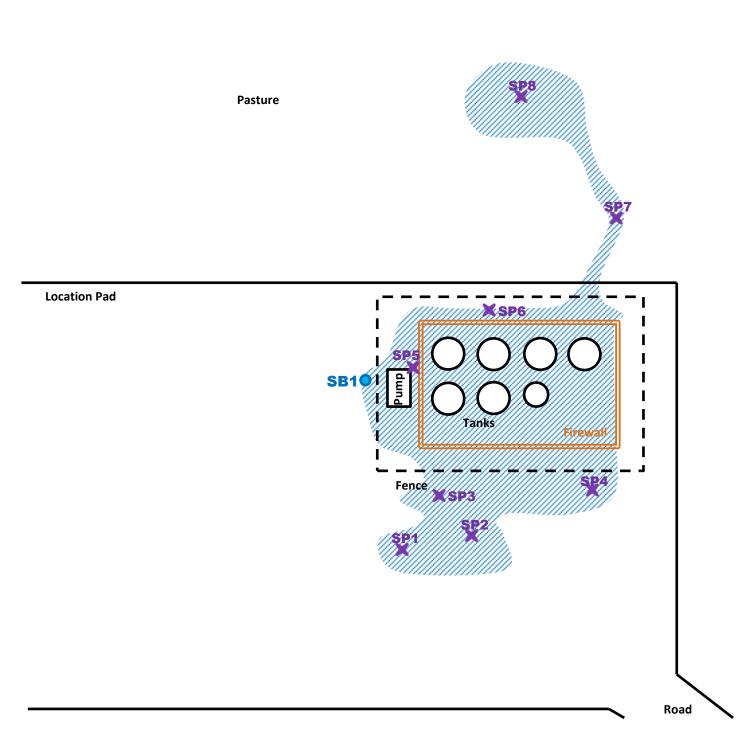
File: Oxy 2012





#### Оху

#### Sand Dunes 28 Federal #1 SWD



U/L J, Section 28, T23S, R31E **Eddy County, NM** 

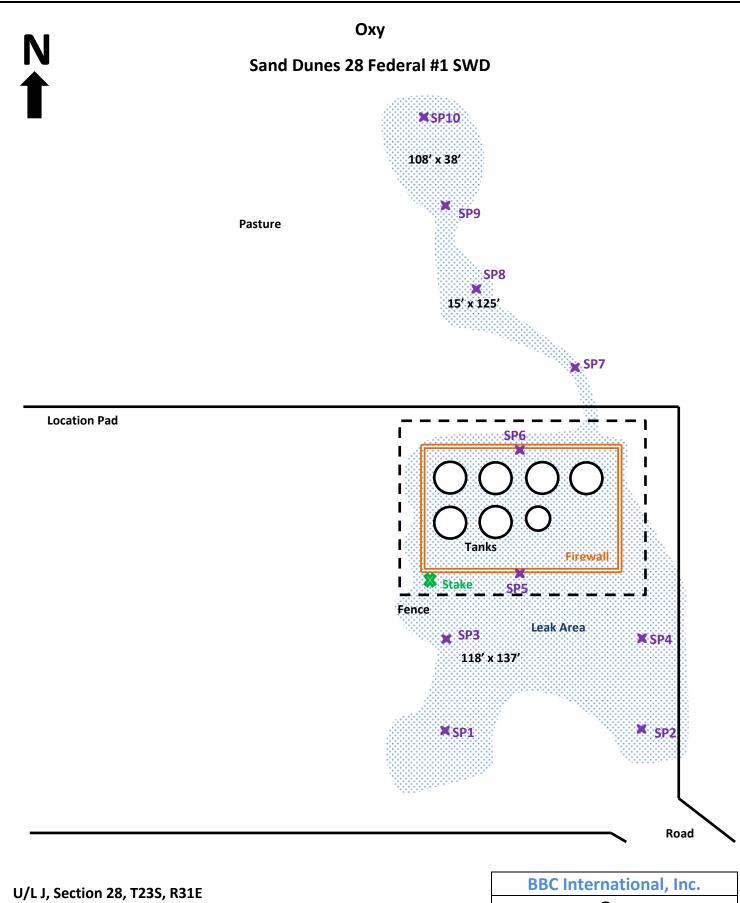
N 32.27641° W 103.78047°

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

#### Оху

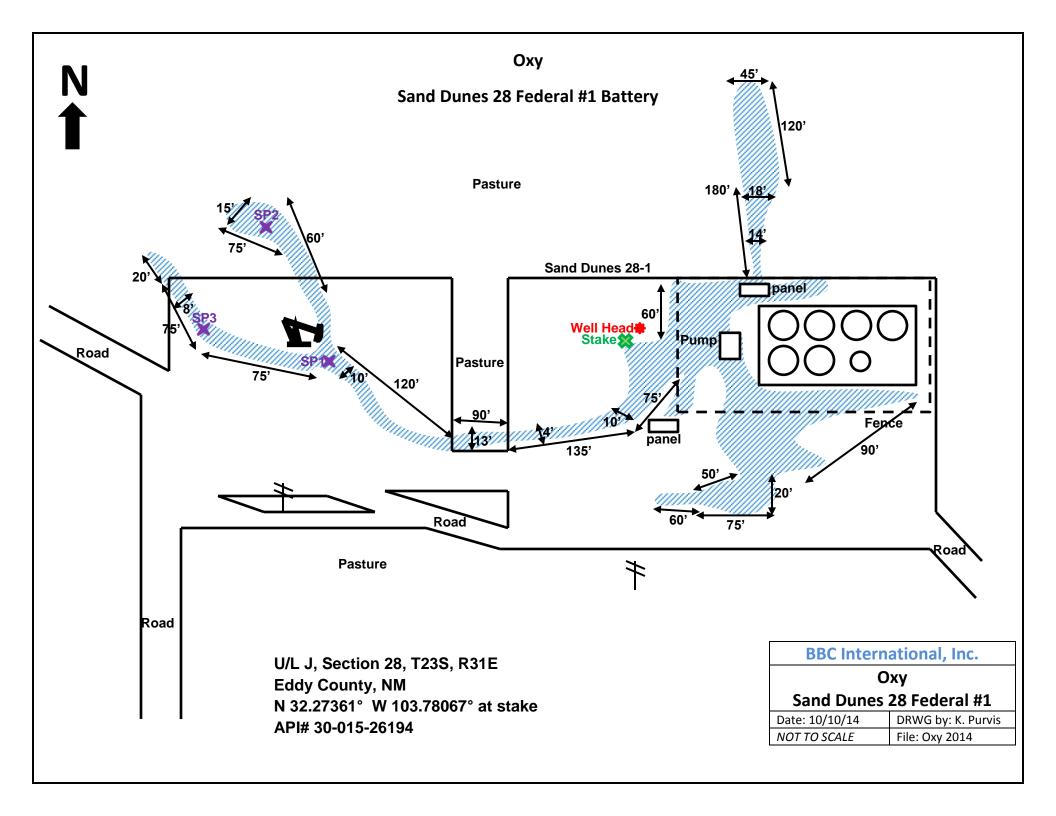
Sand Dunes 28 Federal #1 SWD

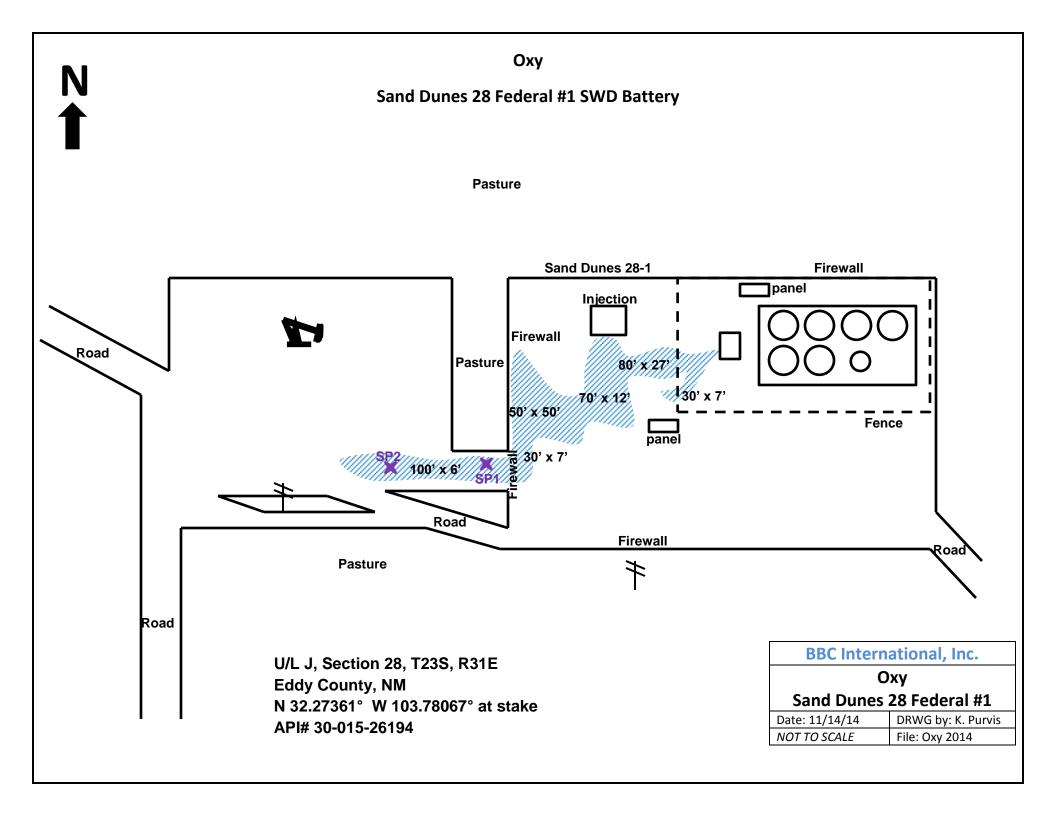
Date: 05/07/2013	DRWG by: K. Purvis
NOT TO SCALE	File: Oxy 2013



Eddy County, NM
N 32.27641° W 103.78047°

BBC International, Inc.					
Оху					
Sand Dunes 28	Federal #1 SWD				
Date: 03/28/2013	DRWG by: K. Purvis				
NOT TO SCALE	File: Oxy 2013				





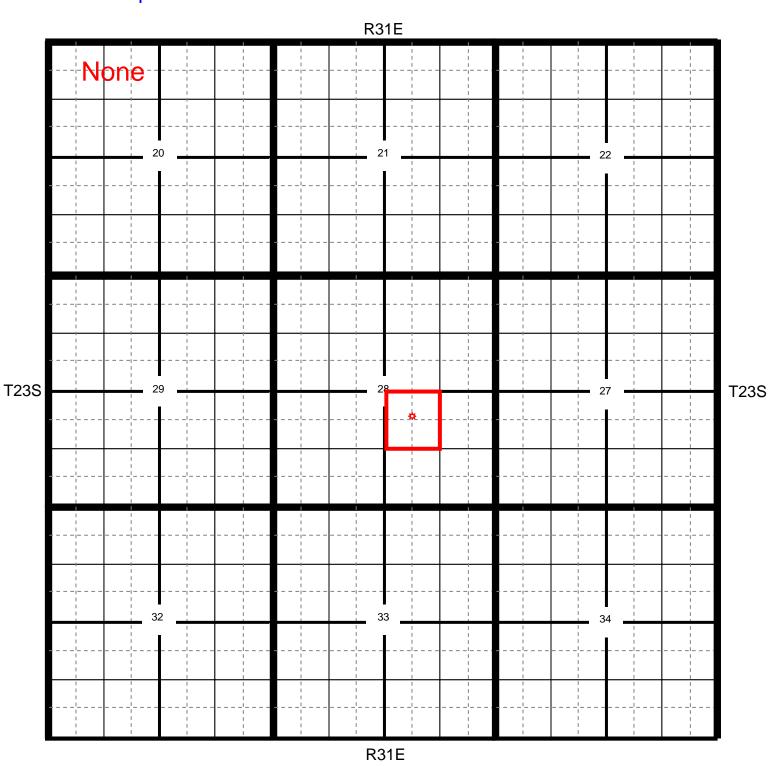


#### **Groundwater Plot**

### Oxy Sand Dunes 28 Fed #1 SWD

CountyUnit LetterSectionTownshipRangeEddyJ2823S31E

Trend Map 200'-250'



Location

OCD

USGS

SEO

All Databases

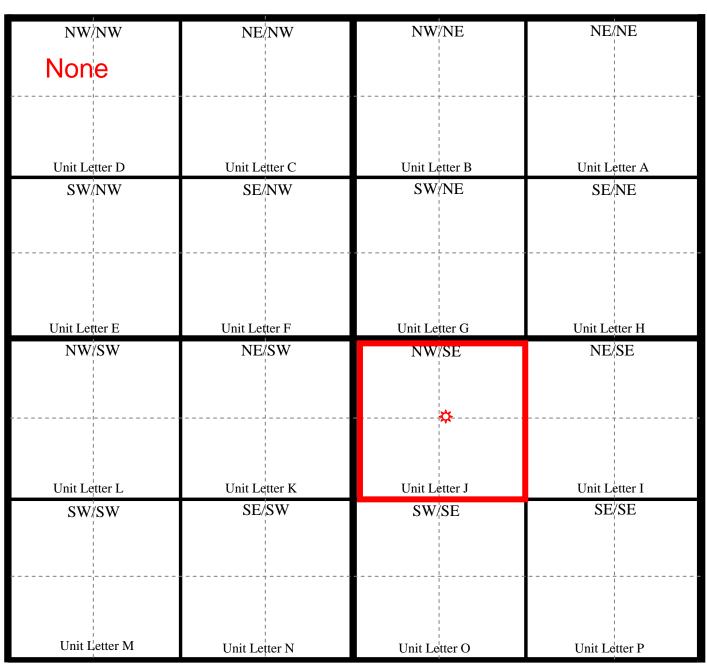
#### **Section Quarters**

## Oxy Sand Dunes 28 Federal #1 SWD

CountyUnit LetterSectionTownshipRangeEddyJ2823S31E

Trend Map 200'-250'

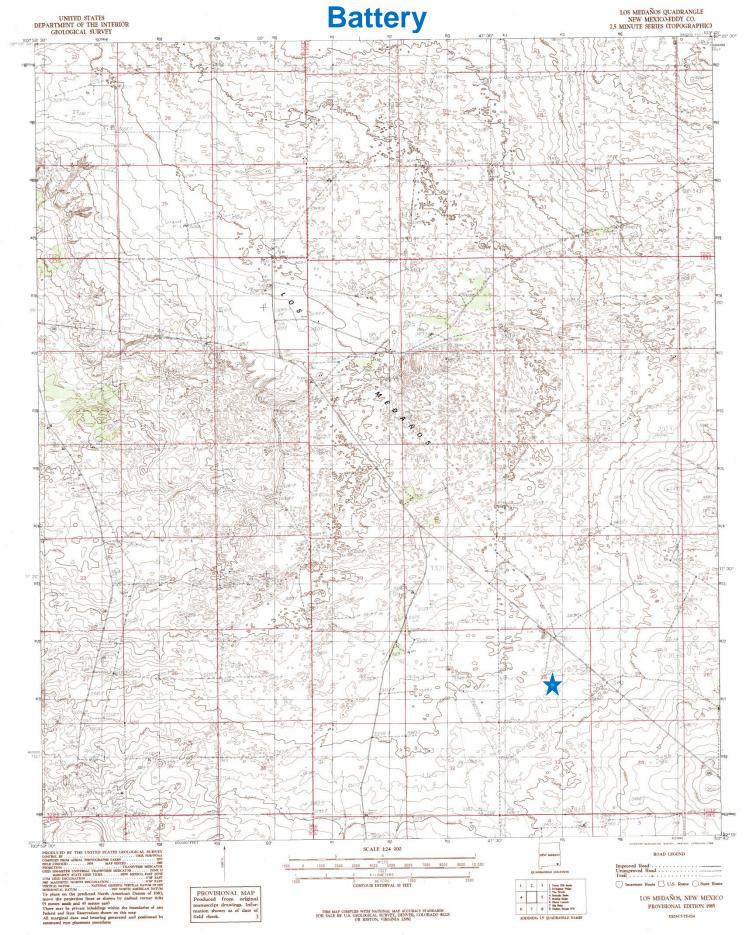
1



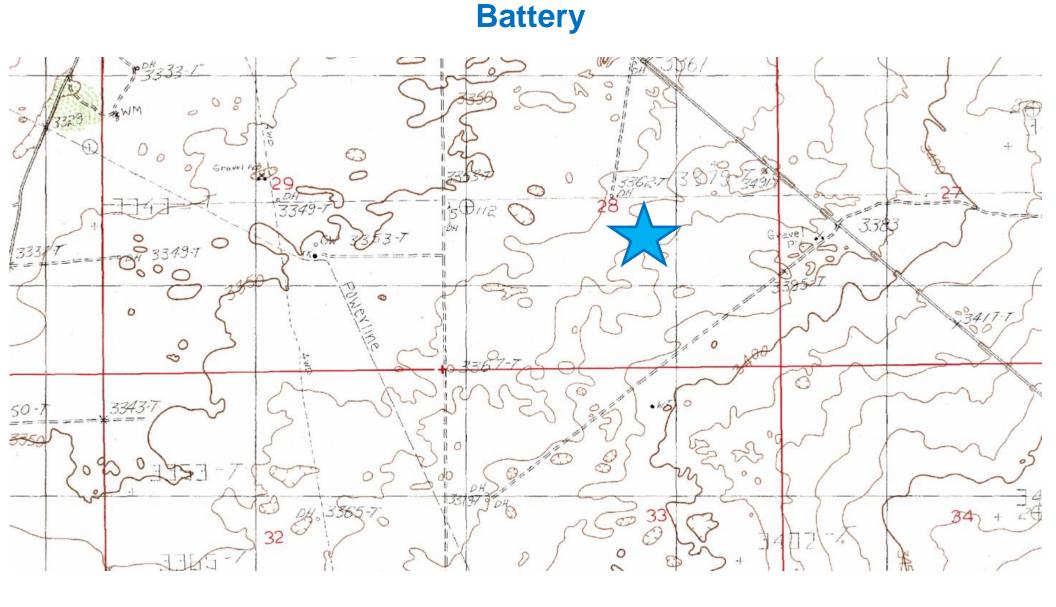
3

## Оху

## Sand Dunes 28 Federal #1



Oxy
Sand Dunes 28 Federal #1



## Laboratory Analytical Results Summary OXY, Sand Dunes #28-1 SWD

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 5'	SP1 @ 8'
Analyte	Method	Date	10/4/12	10/4/12	10/4/12	10/4/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050
Toluene	BTEX 8021B		0.134	0.174	< 0.050	< 0.050
Ethylbenzene	BTEX 8021B		0.401	1.03	0.345	< 0.050
Total Xylenes	BTEX 8021B		2.05	8.04	2.63	< 0.150
Chloride	SM4500CI-B		1520	3520	1650	<16
GRO	TPH 8015M		422	638	56.8	<10.0
DRO	TPH 8015M		6170	6460	411	<10.0

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 6'
Analyte	Method	Date	10/4/12	10/4/12	10/4/12
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050	< 0.050
Toluene	BTEX 8021B		< 0.050	< 0.050	< 0.050
Ethylbenzene	BTEX 8021B		0.295	< 0.050	< 0.050
Total Xylenes	BTEX 8021B		1.70	<0.150	<0.150
Chloride	SM4500CI-B		3000	352	<16
GRO	TPH 8015M		36.9	<10.0	<10.0
DRO	TPH 8015M		876	<10.0	<10.0

		Sample	SP3 @ 1'	SP3 @ 3'	SP3 @ 6'	SP3 @ 8'	SP3 @ 10'
Analyte	Method	Date	10/4/12	10/4/12	10/4/12	10/4/12	10/4/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	<0.200	< 0.050	< 0.050	< 0.050
Toluene	BTEX 8021B		0.199	<0.200	< 0.050	< 0.050	<0.050
Ethylbenzene	BTEX 8021B		2.24	3.38	0.067	< 0.050	< 0.050
Total Xylenes	BTEX 8021B		10.8	17.0	0.280	<0.150	<0.150
Chloride	SM4500CI-B		224	6880	1920	1360	<16
GRO	TPH 8015M		221	571	10.4	<10.0	<10.0
DRO	TPH 8015M		3960	6690	198	<10.0	<10.0

		Sample	SP4 @ 1'	SP4 @ 3'	SP4 @ 5'	SP4 @ 8'	SP4 @ 11'	SP4 @ 14'
		Sample	3F4 @ I	3F4 @ 3	3F4 @ 5	3F4 @ 6	3F4 @ 11	3F4 @ 14
Analyte	Method	Date	10/5/12	10/5/12	10/5/12	10/5/12	10/5/12	10/5/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.200	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
Toluene	BTEX 8021B		0.730	0.149	< 0.050	< 0.050	< 0.050	< 0.050
Ethylbenzene	BTEX 8021B		5.09	2.16	< 0.050	< 0.050	< 0.050	< 0.050
Total Xylenes	BTEX 8021B		57.4	13.3	0.216	<0.150	<0.150	<0.150
Chloride	SM4500CI-B		6400	3800	3120	448	1360	48
GRO	TPH 8015M		1170	485	<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		6440	4340	206	27.3	13.3	<10.0

		Sample	SP5 @ 2'
Analyte	Method	Date	10/5/12
			mg/Kg
Benzene	BTEX 8021B		<0.200
Toluene	BTEX 8021B		0.238
Ethylbenzene	BTEX 8021B		4.18
Total Xylenes	BTEX 8021B		19.0
Chloride	SM4500CI-B		5840
GRO	TPH 8015M		482
DRO	TPH 8015M		4920

		Sample	SP6 @ 2'
Analyte	Method	Date	10/8/12
			mg/Kg
Benzene	BTEX 8021B		< 0.050
Toluene	BTEX 8021B		< 0.050
Ethylbenzene	BTEX 8021B		< 0.050
Total Xylenes	BTEX 8021B		<0.150
Chloride	SM4500CI-B		832
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	SP7 @ 2'
Analyte	Method	Date	10/8/12
			mg/Kg
Benzene	BTEX 8021B		< 0.050
Toluene	BTEX 8021B		0.135
Ethylbenzene	BTEX 8021B		2.87
Total Xylenes	BTEX 8021B		15.5
Chloride	SM4500CI-B		992
GRO	TPH 8015M		534
DRO	TPH 8015M		4840

Laboratory Analytical Results Summary OXY, Sand Dunes #28-1 SWD

## Laboratory Analytical Results Summary OXY, Sand Dunes 28 #1 2nd Leak

		Sample	SP1 @ SURFACE	SP1 @ 1'
Analyte	Method	Date	10/30/12	10/30/12
			mg/Kg	mg/Kg
Chloride	SM4500CI-B		<16.0	<16.0

		Sample	SP2 @ SURFACE	SP2 @ 1'
Analyte	Method	Date	10/30/12	10/30/12
			mg/Kg	mg/Kg
Chloride	SM4500CI-B		<16.0	<16.0

		Sample	SP3 @ SURFACE	SP3 @ 1'
Analyte	Method	Date	10/30/12	10/30/12
			mg/Kg	mg/Kg
Chloride	SM4500CI-B		832	32

		Sample	SP4 @ SURFACE	SP4 @ 1'	SP4 @ 2'
Analyte	Method	Date	10/30/12	10/30/12	10/30/12
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		2320	176	128

		Sample	SP5 @ SURFACE	SP5 @ 1'
Analyte	Method	Date	10/30/12	10/30/12
			mg/Kg	mg/Kg
Chloride	SM4500CI-B		48	<16.0

		Sample	SP6 @ SURFACE	SP6 @ 1'
Analyte	Method	Date	10/30/12	10/30/12
			mg/Kg	mg/Kg
Chloride	SM4500CI-B		32	<16.0

		Sample	SP7 @ SURFACE	SP7 @ 1'	SP7 @ 3'	SP7 @ 6'
Analyte	Method	Date	10/30/12	10/30/12	10/30/12	10/30/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		92800	512	384	<16.0

		Sample	SP8 @ SURFACE	SP8 @ 1'	SP8 @ 3'	SP8 @ 6'	SP8 @ 7'
Analyte	Method	Date	10/30/12	10/30/12	10/31/12	10/31/12	10/31/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		43200	656	336	208	<16.0

## Laboratory Analytical Results Summary OXY, Sand Dunes 28 #1 2nd Leak

		Sample	SP9 @ SURFACE	SP9 @ 1'	SP9 @ 3'	SP9 @ 5'
Analyte	Method	Date	10/31/12	10/31/12	10/31/12	10/31/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		58400	608	480	<16.0

		Sample	SP10 @ SURFACE	SP10 @ 1'	SP10 @ 3'	SP10 @ 6'	SP10 @ 7'
Analyte	Method	Date	10/31/12	10/31/12	10/31/12	10/31/12	10/31/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		34000	23600	1570	416	176

		Sample	SP11 @ SURFACE	SP11 @ 1'	SP11 @ 3'	SP11 @ 6'	SP11 @ 9'	SP11 @ 13'	SP11 @ 18'
Analyte	Method	Date	10/31/12	10/31/12	10/31/12	10/31/12	10/31/12	11/1/12	11/1/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		27600	10900	4560	2920	3000	4360	2480

		Sample	SP12 @ SURFACE	SP12 @ 1'	SP12 @ 3'	SP12 @ 6'	SP12 @ 9'	SP12 @ 13'	SP12 @ 18'
Analyte	Method	Date	10/31/12	10/31/12	10/31/12	10/31/12	10/31/12	11/1/12	11/1/12
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		72000	4640	7280	9600	4320	3240	2120

		Sample	SP13 @ SURFACE	SP13 @ 1'	SP13 @ 3'
Analyte	Method	Date	11/1/12	11/1/12	11/1/12
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		2840	384	96

#### Laboratory Analytical Results Summary Sand Dunes 28 Federal #1 SWD

		Sample	SP1 @ 1'	SP1 @ 3'
Analyte	Method	Date	4/4/13	4/4/13
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	N/A
Toluene	BTEX 8021B		< 0.050	N/A
Ethylbenzene	BTEX 8021B		< 0.050	N/A
Total Xylenes	BTEX 8021B		<0.150	N/A
Total BTEX	BTEX 8021B		< 0.300	N/A
Chloride	SM4500CI-B		1970	128
GRO	TPH 8015M		<10.0	N/A
DRO	TPH 8015M		<10.0	N/A

		Sample	SP2 @ 1'	SP2 @ 3'
Analyte	Method	Date	4/4/13	4/4/13
			mg/Kg	mg/Kg
Chloride	SM4500CI-B		1630	128

		Sample	SP3 @ 1'	SP3 @ 3'
Analyte	Method	Date	4/4/13	4/4/13
			mg/Kg	mg/Kg
Chloride	SM4500CI-B		176	4400

		Sample	SP4 @ 1'	SP4 @ 2'
Analyte	Method	Date	4/4/13	4/4/13
			mg/Kg	mg/Kg
Benzene	BTEX 8021B		N/A	< 0.050
Toluene	BTEX 8021B		N/A	< 0.050
Ethylbenzene	BTEX 8021B		N/A	< 0.050
Total Xylenes	BTEX 8021B		N/A	<0.150
Total BTEX	BTEX 8021B		N/A	< 0.300
Chloride	SM4500CI-B		208	160
GRO	TPH 8015M		N/A	<10.0
DRO	TPH 8015M		N/A	<10.0

		Sample	SP5 @ 1'	SP5 @ 2'
Analyte	Method	Date	4/4/13	4/4/13
			mg/Kg	mg/Kg
Chloride	SM4500CI-B		320	160

		Sample	SP6 @ 1'	SP6 @ 2'
Analyte	Method	Date	4/5/13	4/5/13
			mg/Kg	mg/Kg
Chloride	SM4500CI-B		640	8720

#### Laboratory Analytical Results Summary Sand Dunes 28 Federal #1 SWD

		Sample	SP7 @ 6'
Analyte	Method	Date	4/8/13
			mg/Kg
Chloride	SM4500CI-B		1010

		Sample	SP8 @ 6'
Analyte	Method	Date	4/8/13
			mg/Kg
Chloride	SM4500CI-B		1100

		Sample	SP9 @ 6'
Analyte	Method	Date	4/8/13
			mg/Kg
Chloride	SM4500CI-B		10600

		Sample	SP10 @ 6'
Analyte	Method	Date	4/8/13
			mg/Kg
Chloride	SM4500CI-B		8960

## Laboratory Analytical Results Summary Sand Dunes 28-1

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 5'
Analyte	Method	Date	7/30/13	7/30/13	7/30/13
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	n/a	n/a
Toluene	BTEX 8021B		< 0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		< 0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		< 0.300	n/a	n/a
Chloride	SM4500CI-B		5480	8240	112
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 4'
Analyte	Method	Date	7/30/13	7/30/13	7/30/13
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	n/a	n/a
Toluene	BTEX 8021B		< 0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		< 0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		< 0.300	n/a	n/a
Chloride	SM4500CI-B		1280	4800	256
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a

		Sample	SP3 @ 1'	SP3 @ 3'	SP3 @ 5'	SP3 @ 8'
Analyte	Method	Date	7/30/13	7/31/13	7/31/13	7/31/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		< 0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		< 0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		< 0.300	n/a	n/a	n/a
Chloride	SM4500CI-B		7200	3680	2560	288
GRO	TPH 8015M		<10.0	n/a	n/a	n/a
DRO	TPH 8015M		581	n/a	n/a	n/a

		Sample	SP4 @ 1'	SP4 @ 3'	SP4 @ 4'
Analyte	Method	Date	7/31/13	7/31/13	7/31/13
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	n/a	n/a
Toluene	BTEX 8021B		< 0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		< 0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	n/a	n/a
Chloride	SM4500CI-B		5440	928	144
GRO	TPH 8015M		<10.0	n/a	n/a

		Sample	SP5 @ 1'	SP5 @ 3'	SP5 @ 5'	SP5 @ 9'
Analyte	Method	Date	7/30/13	7/31/13	7/31/13	8/1/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		< 0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		< 0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		< 0.300	n/a	n/a	n/a
Chloride	SM4500CI-B		6640	560	3920	14200
GRO	TPH 8015M		<10.0	n/a	n/a	n/a
DRO	TPH 8015M		41.1	n/a	n/a	n/a

		Sample	SP6 @ 1'	SP6 @ 3'	SP6 @ 5'	SP6 @ 7'
Analyte	Method	Date	8/1/13	8/1/13	8/1/13	8/1/13
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	n/a	n/a	n/a
Toluene	BTEX 8021B		< 0.050	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		< 0.050	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a	n/a
Total BTEX	BTEX 8021B		< 0.300	n/a	n/a	n/a
Chloride	SM4500CI-B		9800	9200	5460	<16.0
GRO	TPH 8015M		<10.0	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a	n/a

		Sample	SP7 @ 1'	SP7 @ 3'	SP7 @ 4'
Analyte	Method	Date	8/1/13	8/1/13	8/1/13
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	n/a	n/a
Toluene	BTEX 8021B		< 0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		< 0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	n/a	n/a
Total BTEX	BTEX 8021B		< 0.300	n/a	n/a
Chloride	SM4500CI-B		3120	3680	<16.0
GRO	TPH 8015M		<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	n/a	n/a

		Sample	SP8 @ 2'
Analyte	Method	Date	8/1/13
			mg/Kg
Chloride	SM4500CI-B		1760

## Laboratory Analytical Results Summary Sand Dunes 28-1

DRO	TPH 8015M	<10.0	n/a	n/a

#### Laboratory Analytical Results Summary Sand Dunes 28 Federal #1 SWD Battery

		Sample	SB1 @ 21'	SB1 @ 24'	SB1 @ 26'
Analyte	Method	Date	7/2/14	7/2/14	7/2/14
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		160	224	240

#### Laboratory Analytical Results Summary Sand Dunes 28 Federal #1 SWD Battery (10/06/14 leak)

		Sample	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'
Analyte	Method	Date	7/15/15	7/15/15	7/15/15
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		26800	1140	320

		Sample	SP2 @ SURFACE
Analyte	Method	Date	7/15/15
			mg/Kg
Chloride	SM4500CI-B		48

		Sample	SP3 @ SURFACE	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'	SP3 @ 5'
Analyte	Method	Date	7/15/15	7/15/15	7/15/15	7/15/15	7/15/15	7/15/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		22000	2200	1640	1260	1070	272

#### Laboratory Analytical Results Summary Sand Dunes 28 Federal #1 SWD Battery (10/23/14 leak)

		Sample	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'
Analyte	Method	Date	7/15/15	7/15/15	7/15/15
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		6960	752	128

		Sample	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'
Analyte	Method	Date	7/15/15	7/15/15	7/15/15
			mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500CI-B		3000	432	80



October 16, 2012

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SAND DUNES #28 #1 SWD

Enclosed are the results of analyses for samples received by the laboratory on 10/11/12 16:50.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keeno

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



BBC International, Inc.

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

Fax To: (505) 397-0397

Received: 10/11/2012 Sampling Date: 10/04/2012

Reported: 10/16/2012 Sampling Type: Soil

Project Name: SAND DUNES #28 #1 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

4 -- - b -- - - d D--- 4 D

Project Location: NOT GIVEN

#### Sample ID: SP 1 @ 1' (H202481-01)

EX 8021B	mg/kg		Analyzed By: AP						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/13/2012	ND	2.07	104	2.00	10.6		
Toluene*	0.134	0.050	10/13/2012	ND	1.89	94.6	2.00	9.65		
Ethylbenzene*	0.401	0.050	10/13/2012	ND	1.87	93.5	2.00	9.26		
Total Xylenes*	2.05	0.150	10/13/2012	ND	5.53	92.2	6.00	8.46		
Surrogate: 4-Bromofluorobenzene (PID	174	% 89.4-12	6							
Chloride, SM4500Cl-B	mg,	'kg	Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1520	16.0	10/15/2012	ND	400	100	400	3.92		
TPH 8015M	mg,	'kg	Analyze	d By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	422	50.0	10/12/2012	ND	173	86.3	200	6.11		
DRO >C10-C28	6170	50.0	10/12/2012	ND	205	103	200	10.9		
Surrogate: 1-Chlorooctane	127	% 65.2-14	0							
Surrogate: 1-Chlorooctadecane	180	% 63.6-15	4							

Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (505) 397-0397

Received: 10/11/2012 Sampling Date: 10/04/2012

Reported: 10/16/2012 Sampling Type: Soil

Project Name: SAND DUNES #28 #1 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

## Sample ID: SP 1 @ 3' (H202481-02)

BTEX 8021B	mg	kg	Analyze	d By: AP					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2012	ND	2.07	104	2.00	10.6	
Toluene*	0.174	0.050	10/13/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	1.03	0.050	10/13/2012	ND	1.87	93.5	2.00	9.26	
Total Xylenes*	8.04	0.150	10/13/2012	ND	5.53	92.2	6.00	8.46	
Surrogate: 4-Bromofluorobenzene (PID	174	% 89.4-12	6						
Chloride, SM4500Cl-B	mg	'kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3520	16.0	10/15/2012	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	638	50.0	10/13/2012	ND	173	86.3	200	6.11	
DRO >C10-C28	6460	50.0	10/13/2012	ND	205	103	200	10.9	
Surrogate: 1-Chlorooctane	154	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	182	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (505) 397-0397

Received: 10/11/2012 Sampling Date: 10/04/2012

Reported: 10/16/2012 Sampling Type: Soil

Project Name: SAND DUNES #28 #1 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

#### Sample ID: SP 1 @ 5' (H202481-03)

BTEX 8021B	mg/kg		Analyzed By: AP						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2012	ND	2.07	104	2.00	10.6	
Toluene*	<0.050	0.050	10/13/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	0.345	0.050	10/13/2012	ND	1.87	93.5	2.00	9.26	
Total Xylenes*	2.63	0.150	10/13/2012	ND	5.53	92.2	6.00	8.46	
Surrogate: 4-Bromofluorobenzene (PID	175	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1650	16.0	10/15/2012	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	56.8	10.0	10/13/2012	ND	173	86.3	200	6.11	
DRO >C10-C28	411	10.0	10/13/2012	ND	205	103	200	10.9	
Surrogate: 1-Chlorooctane	94.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	94.3	% 63.6-15	4						

#### Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (505) 397-0397

Received: 10/11/2012 Sampling Date: 10/04/2012

Reported: 10/16/2012 Sampling Type: Soil

Project Name: SAND DUNES #28 #1 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

#### Sample ID: SP 1 @ 8' (H202481-04)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2012	ND	2.07	104	2.00	10.6	
Toluene*	<0.050	0.050	10/13/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	<0.050	0.050	10/13/2012	ND	1.87	93.5	2.00	9.26	
Total Xylenes*	<0.150	0.150	10/13/2012	ND	5.53	92.2	6.00	8.46	
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/15/2012	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/13/2012	ND	173	86.3	200	6.11	
DRO >C10-C28	<10.0	10.0	10/13/2012	ND	205	103	200	10.9	
Surrogate: 1-Chlorooctane	95.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	98.2	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (505) 397-0397

Received: 10/11/2012 Sampling Date: 10/04/2012

Reported: 10/16/2012 Sampling Type: Soil

Project Name: SAND DUNES #28 #1 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

#### Sample ID: SP 2 @ 1' (H202481-05)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2012	ND	2.07	104	2.00	10.6	
Toluene*	<0.050	0.050	10/13/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	0.295	0.050	10/13/2012	ND	1.87	93.5	2.00	9.26	
Total Xylenes*	1.70	0.150	10/13/2012	ND	5.53	92.2	6.00	8.46	
Surrogate: 4-Bromofluorobenzene (PID	143	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3000	16.0	10/15/2012	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	36.9	10.0	10/13/2012	ND	179	89.3	200	4.40	
DRO >C10-C28	876	10.0	10/13/2012	ND	170	84.8	200	8.47	
Surrogate: 1-Chlorooctane	95.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	104	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (505) 397-0397

Received: 10/11/2012 Sampling Date: 10/04/2012

Reported: 10/16/2012 Sampling Type: Soil

Project Name: SAND DUNES #28 #1 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

#### Sample ID: SP 2 @ 3' (H202481-06)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2012	ND	2.07	104	2.00	10.6	
Toluene*	<0.050	0.050	10/13/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	<0.050	0.050	10/13/2012	ND	1.87	93.5	2.00	9.26	
Total Xylenes*	<0.150	0.150	10/13/2012	ND	5.53	92.2	6.00	8.46	
Surrogate: 4-Bromofluorobenzene (PID	99.6	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/15/2012	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/13/2012	ND	179	89.3	200	4.40	
DRO >C10-C28	<10.0	10.0	10/13/2012	ND	170	84.8	200	8.47	
Surrogate: 1-Chlorooctane	95.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	97.6	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (505) 397-0397

Received: 10/11/2012 Sampling Date: 10/04/2012

Reported: 10/16/2012 Sampling Type: Soil

Project Name: SAND DUNES #28 #1 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

#### Sample ID: SP 2 @ 6' (H202481-07)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2012	ND	2.07	104	2.00	10.6	
Toluene*	<0.050	0.050	10/15/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	<0.050	0.050	10/15/2012	ND	1.87	93.5	2.00	9.26	
Total Xylenes*	<0.150	0.150	10/15/2012	ND	5.53	92.2	6.00	8.46	
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 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	10/16/2012	ND	400	100	400	7.69	
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	10/13/2012	ND	179	89.3	200	4.40	
DRO >C10-C28	<10.0	10.0	10/13/2012	ND	170	84.8	200	8.47	
Surrogate: 1-Chlorooctane	88.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	89.5	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (505) 397-0397

Received: 10/11/2012 Sampling Date: 10/04/2012

Reported: 10/16/2012 Sampling Type: Soil

Project Name: SAND DUNES #28 #1 SWD Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN** 

#### Sample ID: SP 3 @ 1' (H202481-08)

BTEX 8021B	mg,	/kg	Analyzed By: AP						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2012	ND	2.07	104	2.00	10.6	
Toluene*	0.199	0.050	10/15/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	2.24	0.050	10/15/2012	ND	1.87	93.5	2.00	9.26	
Total Xylenes*	10.8	0.150	10/15/2012	ND	5.53	92.2	6.00	8.46	
Surrogate: 4-Bromofluorobenzene (PID	343	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/16/2012	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	221	50.0	10/13/2012	ND	179	89.3	200	4.40	
DRO >C10-C28	3960	50.0	10/13/2012	ND	170	84.8	200	8.47	
Surrogate: 1-Chlorooctane	108	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	163	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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

Celey D. Keine



BBC International, Inc.

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

Fax To: (505) 397-0397

Received: 10/11/2012 Sampling Date: 10/04/2012

Reported: 10/16/2012 Sampling Type: Soil

Project Name: SAND DUNES #28 #1 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

#### Sample ID: SP 3 @ 3' (H202481-09)

BTEX 8021B	mg,	kg	Analyze	d By: AP					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/15/2012	ND	2.07	104	2.00	10.6	
Toluene*	<0.200	0.200	10/15/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	3.38	0.200	10/15/2012	ND	1.87	93.5	2.00	9.26	
Total Xylenes*	17.0	0.600	10/15/2012	ND	5.53	92.2	6.00	8.46	
Surrogate: 4-Bromofluorobenzene (PID	159	% 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	6880	16.0	10/16/2012	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	571	50.0	10/13/2012	ND	179	89.3	200	4.40	
DRO >C10-C28	6690	50.0	10/13/2012	ND	170	84.8	200	8.47	
Surrogate: 1-Chlorooctane	155	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	193	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (505) 397-0397

Received: 10/11/2012 Sampling Date: 10/04/2012

Reported: 10/16/2012 Sampling Type: Soil

Project Name: SAND DUNES #28 #1 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

#### Sample ID: SP 3 @ 6' (H202481-10)

BTEX 8021B	mg/kg		Analyzed By: AP						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2012	ND	2.07	104	2.00	10.6	
Toluene*	<0.050	0.050	10/15/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	0.067	0.050	10/15/2012	ND	1.87	93.5	2.00	9.26	
Total Xylenes*	0.280	0.150	10/15/2012	ND	5.53	92.2	6.00	8.46	
Surrogate: 4-Bromofluorobenzene (PID	127	% 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	1920	16.0	10/16/2012	ND	400	100	400	7.69	
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	10.4	10.0	10/13/2012	ND	179	89.3	200	4.40	
DRO >C10-C28	198	10.0	10/13/2012	ND	170	84.8	200	8.47	
Surrogate: 1-Chlorooctane	89.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	91.9	% 63.6-15	4						

#### Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (505) 397-0397

Received: 10/11/2012 Sampling Date: 10/04/2012

Reported: 10/16/2012 Sampling Type: Soil

Project Name: SAND DUNES #28 #1 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

#### Sample ID: SP 3 @ 8' (H202481-11)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2012	ND	2.07	104	2.00	10.6	
Toluene*	<0.050	0.050	10/15/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	<0.050	0.050	10/15/2012	ND	1.87	93.5	2.00	9.26	
Total Xylenes*	<0.150	0.150	10/15/2012	ND	5.53	92.2	6.00	8.46	
Surrogate: 4-Bromofluorobenzene (PID	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	1360	16.0	10/16/2012	ND	400	100	400	7.69	
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	10/13/2012	ND	179	89.3	200	4.40	
DRO >C10-C28	<10.0	10.0	10/13/2012	ND	170	84.8	200	8.47	
Surrogate: 1-Chlorooctane	85.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	86.7	% 63.6-15	4						

#### Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (505) 397-0397

Received: 10/11/2012 Sampling Date: 10/04/2012

Reported: 10/16/2012 Sampling Type: Soil

Project Name: SAND DUNES #28 #1 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

#### Sample ID: SP 3 @ 10' (H202481-12)

BTEX 8021B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2012	ND	2.07	104	2.00	10.6	
Toluene*	<0.050	0.050	10/15/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	<0.050	0.050	10/15/2012	ND	1.87	93.5	2.00	9.26	
Total Xylenes*	<0.150	0.150	10/15/2012	ND	5.53	92.2	6.00	8.46	
Surrogate: 4-Bromofluorobenzene (PID	101	% 89.4-12	26						
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	10/16/2012	ND	400	100	400	7.69	
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	10/13/2012	ND	179	89.3	200	4.40	
DRO >C10-C28	<10.0	10.0	10/13/2012	ND	170	84.8	200	8.47	
Surrogate: 1-Chlorooctane	90.4	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	91.4	% 63.6-15	14						

Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (505) 397-0397

Received: 10/11/2012 Sampling Date: 10/05/2012

Reported: 10/16/2012 Sampling Type: Soil

Project Name: SAND DUNES #28 #1 SWD Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN** 

#### Sample ID: SP 4 @ 1' (H202481-13)

BTEX 8021B	mg	/kg	Analyze	ed By: AP					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/15/2012	ND	2.07	104	2.00	10.6	
Toluene*	0.730	0.200	10/15/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	5.09	0.200	10/15/2012	ND	1.87	93.5	2.00	9.26	
Total Xylenes*	57.4	0.600	10/15/2012	ND	5.53	92.2	6.00	8.46	
Surrogate: 4-Bromofluorobenzene (PID	358	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	10/16/2012	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	ed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1170	50.0	10/13/2012	ND	179	89.3	200	4.40	
DRO >C10-C28	6440	50.0	10/13/2012	ND	170	84.8	200	8.47	
Surrogate: 1-Chlorooctane	172	% 65.2-14	0						
Commenter 1 Chlores et al.	102	0/ 62 6 15							

182 % 63.6-154 Surrogate: 1-Chlorooctadecane

Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (505) 397-0397

Received: 10/11/2012 Sampling Date: 10/05/2012

Reported: 10/16/2012 Sampling Type: Soil

Project Name: SAND DUNES #28 #1 SWD Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN** 

#### Sample ID: SP 4 @ 3' (H202481-14)

BTEX 8021B	mg	/kg	Analyze	d By: AP					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2012	ND	2.07	104	2.00	10.6	
Toluene*	0.149	0.050	10/15/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	2.16	0.050	10/15/2012	ND	1.87	93.5	2.00	9.26	
Total Xylenes*	13.3	0.150	10/15/2012	ND	5.53	92.2	6.00	8.46	
Surrogate: 4-Bromofluorobenzene (PID	459	% 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	3800	16.0	10/16/2012	ND	400	100	400	7.69	
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	485	50.0	10/13/2012	ND	179	89.3	200	4.40	
DRO >C10-C28	4340	50.0	10/13/2012	ND	170	84.8	200	8.47	
Surrogate: 1-Chlorooctane	136	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	152	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (505) 397-0397

Received: 10/11/2012 Sampling Date: 10/05/2012

Reported: 10/16/2012 Sampling Type: Soil

Project Name: SAND DUNES #28 #1 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

#### Sample ID: SP 4 @ 5' (H202481-15)

BTEX 8021B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2012	ND	2.07	104	2.00	10.6	
Toluene*	<0.050	0.050	10/15/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	<0.050	0.050	10/15/2012	ND	1.87	93.5	2.00	9.26	
Total Xylenes*	0.216	0.150	10/15/2012	ND	5.53	92.2	6.00	8.46	
Surrogate: 4-Bromofluorobenzene (PID	115 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	3120	16.0	10/16/2012	ND	400	100	400	7.69	
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	10/13/2012	ND	179	89.3	200	4.40	
DRO >C10-C28	206	10.0	10/13/2012	ND	170	84.8	200	8.47	
Surrogate: 1-Chlorooctane	96.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	99.1	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (505) 397-0397

Received: 10/11/2012 Sampling Date: 10/05/2012

Reported: 10/16/2012 Sampling Type: Soil

Project Name: SAND DUNES #28 #1 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

#### Sample ID: SP 4 @ 8' (H202481-16)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2012	ND	2.07	104	2.00	10.6	
Toluene*	<0.050	0.050	10/15/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	<0.050	0.050	10/15/2012	ND	1.87	93.5	2.00	9.26	
Total Xylenes*	<0.150	0.150	10/15/2012	ND	5.53	92.2	6.00	8.46	
Surrogate: 4-Bromofluorobenzene (PID	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	448	16.0	10/16/2012	ND	400	100	400	7.69	
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	10/13/2012	ND	179	89.3	200	4.40	
DRO >C10-C28	27.3	10.0	10/13/2012	ND	170	84.8	200	8.47	
Surrogate: 1-Chlorooctane	84.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	85.2	% 63.6-15	4						

#### Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (505) 397-0397

Received: 10/11/2012 Sampling Date: 10/05/2012

Reported: 10/16/2012 Sampling Type: Soil

Project Name: SAND DUNES #28 #1 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

#### Sample ID: SP 4 @ 11' (H202481-17)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2012	ND	2.07	104	2.00	10.6	
Toluene*	<0.050	0.050	10/15/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	<0.050	0.050	10/15/2012	ND	1.87	93.5	2.00	9.26	
Total Xylenes*	<0.150	0.150	10/15/2012	ND	5.53	92.2	6.00	8.46	
Surrogate: 4-Bromofluorobenzene (PID	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	1360	16.0	10/16/2012	ND	400	100	400	7.69	
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	10/13/2012	ND	179	89.3	200	4.40	
DRO >C10-C28	13.3	10.0	10/13/2012	ND	170	84.8	200	8.47	
Surrogate: 1-Chlorooctane	85.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	85.9	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (505) 397-0397

Received: 10/11/2012 Sampling Date: 10/05/2012

Reported: 10/16/2012 Sampling Type: Soil

Project Name: SAND DUNES #28 #1 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

#### Sample ID: SP 4 @ 14' (H202481-18)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2012	ND	2.07	104	2.00	10.6	
Toluene*	<0.050	0.050	10/15/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	<0.050	0.050	10/15/2012	ND	1.87	93.5	2.00	9.26	
Total Xylenes*	<0.150	0.150	10/15/2012	ND	5.53	92.2	6.00	8.46	
Surrogate: 4-Bromofluorobenzene (PID	101	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/16/2012	ND	400	100	400	7.69	
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	10/13/2012	ND	179	89.3	200	4.40	
DRO >C10-C28	<10.0	10.0	10/13/2012	ND	170	84.8	200	8.47	
Surrogate: 1-Chlorooctane	80.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	80.6	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (505) 397-0397

Received: 10/11/2012 Sampling Date: 10/05/2012

Reported: 10/16/2012 Sampling Type: Soil

Project Name: SAND DUNES #28 #1 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

#### Sample ID: SP 5 @ 2' (H202481-19)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/15/2012	ND	2.07	104	2.00	10.6	
Toluene*	0.238	0.200	10/15/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	4.18	0.200	10/15/2012	ND	1.87	93.5	2.00	9.26	
Total Xylenes*	19.0	0.600	10/15/2012	ND	5.53	92.2	6.00	8.46	
Surrogate: 4-Bromofluorobenzene (PID	94.5	% 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	5840	16.0	10/16/2012	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	482	50.0	10/13/2012	ND	179	89.3	200	4.40	
DRO >C10-C28	4920	50.0	10/13/2012	ND	170	84.8	200	8.47	
Surrogate: 1-Chlorooctane	132	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	159	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (505) 397-0397

Received: 10/11/2012 Sampling Date: 10/08/2012

Reported: 10/16/2012 Sampling Type: Soil

Project Name: SAND DUNES #28 #1 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

#### Sample ID: SP 6 @ 2' (H202481-20)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2012	ND	2.07	104	2.00	10.6	
Toluene*	<0.050	0.050	10/15/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	<0.050	0.050	10/15/2012	ND	1.87	93.5	2.00	9.26	
Total Xylenes*	<0.150	0.150	10/15/2012	ND	5.53	92.2	6.00	8.46	
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	832	16.0	10/16/2012	ND	400	100	400	7.69	
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	10/13/2012	ND	179	89.3	200	4.40	
DRO >C10-C28	<10.0	10.0	10/13/2012	ND	170	84.8	200	8.47	
Surrogate: 1-Chlorooctane	86.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	86.8	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (505) 397-0397

Received: 10/11/2012 Sampling Date: 10/08/2012

Reported: 10/16/2012 Sampling Type: Soil

Project Name: SAND DUNES #28 #1 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

#### Sample ID: SP 7 @ 2' (H202481-21)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2012	ND	2.07	104	2.00	10.6	
Toluene*	0.135	0.050	10/15/2012	ND	1.89	94.6	2.00	9.65	
Ethylbenzene*	2.87	0.050	10/15/2012	ND	1.87	93.5	2.00	9.26	
Total Xylenes*	15.5	0.150	10/15/2012	ND	5.53	92.2	6.00	8.46	
Surrogate: 4-Bromofluorobenzene (PID	93.1	% 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	992	16.0	10/16/2012	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	534	50.0	10/13/2012	ND	179	89.3	200	4.40	
DRO >C10-C28	4840	50.0	10/13/2012	ND	170	84.8	200	8.47	
Surrogate: 1-Chlorooctane	142	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	154	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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



#### **Notes and Definitions**

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

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

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

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

Cardinal Laboratories \*=Accredited Analyte

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

# ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

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

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

IN-OI -OUCTOD T AND ANALTOIO REQUEST

Company Name: BBC International, Inc.										8//	LL TO		Š				ANA	ALY	SIS	RE	QUE	ST	Total Control	27.10	4 4 -
Project Manager: Cliff Brunson							P.C	). #									1100	1	18.3	ا سند	14%			1.50	1 2 30
Address: P.O. Box 805							Co	mp	any	:	-	8	1			-		.8							a.
City: Hobbs State: NM	Zip	): {	8824	41		Ś	Att	n:	•	4		is approximately	1			İ	1		1		1				
Note that the state of the stat	5-39	7-0	397				Ad	dre	SS:		SA	VIE	1				1		- 1		1		İ		
Project #: Project Own	er:	0	14	P			Cit	v:						*										ĺ	2
Project Name: Sand Wires # 28 *	A		6				77	ite:	17.	1.	Zip:		,				1		- 1		ļ				l
Project Location:	-	441		- Copp				one	#:	1			1												
Sampler Name: JEFF ORNELAS		3						x #:							,		İ								
FOR LAB USE ONLY	Т.	Т		M	ATRI	X		-	ESE	RV.	SAMPL	ING	Con	Maria			1					İ			İ
	(C)OMP.		œ					leng 1					2	· Mi	1		•	7							1
	(O	IERS	WATE	H										1	030					*4					1
Lab I.D. Sample I.D.	a O.R.	TAIN	NDV	EWA		H	3	SASE	00	~			1	-1 M	1	19		-	-						l
H202481	(G)RABOR	# CONTAINERS	GROUNDWATER	WAST	OF OF	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER	DATE	TIME		13	1			1	- 1						
1 SP/@ /'	3		O	<i>≤</i> 0.	0	S	O	Ä	2	0	DATE	1030	**	8/	-	+	+	+						-	-
2 3.	Contract of the Contract of th	1		W	1	1			See .		18-4	1000	100	1	,	-		+	7.				<u> </u>		
3 5	C3.	1		8		$\top$			4		107:4	1145	¥	1	1	1		$\top$							
4 8°	31,380	1		6	00/				1		0.4	118	4	Sec.	of	1									
5 SP2 e /'	G	1		8					regard .		18-4	137	0	Sec.	and a								1		
G	G	1		66	+	-			Bar	_	10-4	150	- Dept	1	850	1	_	1	_						
1 502 61	G	1		8	4	-			8	-	10 " U	205	Sin		,000m	_		$\perp$					ļ		
8 SP301	Can-	1		18	#-	-	-		*	_	10-4	25	81	W. W.	Beauty	-		+	$\dashv$	Ser T			-		
B) 6.	ALTER .	1	H	89	1	-			8	-	10-4	7215	Same	SKOWN .	Bir	-		+					-		
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for											o the amount pa				0						<u> </u>		<u> </u>	×.	<u> </u>
analyses. All claims including those for negligence and any other cause whatsoever shall service. In no event shall Cardinal be liable for incidental or consequental damages, included the consequental damages.	ing withou	ut limita	ation, bu	isiness i	interrup	otions, I	oss of	use,	or loss	of pro	ofits incurred by	client, its subsidia	aries,	able									*		
affiliates or successors arising out of or related to the performance of services hereunder b Relinquished By:   Parte:   / 1 / / / /			rdless of ved E		er such	daim i	s base	d upo	n any	of the	above stated re	Phone Re		□ Y	s [	] No	Add'	'l Pho	one #	:					
1 1 1 1 11/1/1/	4	A	17	1/1	,	d	1/0	7 1.	11	R	-11	Fax Resu REMARK		□ Y	s [	□ No	Add'	'l Fax	#:						i not
	1 6	1	116	M	/	Sanget !	1X	1/		الكاميا	1														
Relinquished By: Date:	Ke	cen	ved E	sy:		100				9		Ī													
									100			a v													
Time:									1																
Delivered By: (Circle One)		إخو		ampl			on			CKI Initi	ED BY:	e el													o <sup>F</sup> so

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

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

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

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

Company Name: BBC International, Inc. **ANALYSIS REQUEST** BILL TO Project Manager: Cliff Brunson P.O. #: Address: P.O. Box 805 Company: city: Hobbs State: NM zip: 88241 Attn: Phone #: 575-397-6388 Fax #: 575-397-0397 Address: City: Project Owner: Project #: Project Name: State: Zip: Project Location: Phone #: Sampler Name: Fax #: MATRIX PRESERV SAMPLING FOR LAB USE ONLY Sample I.D. Lab I.D. ACID/BASE ICE / COO H20248 DATE TIME 300 1003 1100 200 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 30 days after completion of the applicable service. In no event shall-Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, Relinguished By: Phone Result: ☐ Yes □ No Add'l Phone #: Received By: □ No Fax Result: ☐ Yes Add'l Fax #: **REMARKS:** Relinquished By: Date: Received By: Time: Delivered By: (Circle One) Sample Condition CHECKED BY: Cool Intact
☐ Yes ☐ Yes (Initials)

Sampler - UPS - Bus - Other:

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

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

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

(505) 393-2326 FAX (505) 393-2476 Company Name: BBC International, Inc. **ANALYSIS REQUEST BILL TO** Project Manager: Cliff Brunson P.O. #: Address: P.O. Box 805 Company: State: NM Zip: 88241 city: Hobbs Attn: Phone #: 575-397-6388 Fax #: 575-397-0397 Address: **Project Owner:** City: Project #: Project Name: State: Zip: Phone #: **Project Location:** Sampler Name: Fax #: MATRIX FOR LAB USE ONLY PRESERV SAMPLING Sample I.D. Lab I.D. H20748 DATE TIME 5P702 10.8 1127 PLEASE NOTE: Liability and Damages. Cardina'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 the client for the 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 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, Phone Result: Add'l Phone #: Relinguished By: Received By: ☐ Yes □ No Add'l Fax #: Fax Result: ☐ Yes □ No REMARKS: Time:

CHECKED BY:

(Initials)

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

Date:

Time:

Relinquished By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

#26

Sample Condition

Cool Intact

Yes Yes

Received By:



November 12, 2012

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SAND DUNES 28 #1 2ND LEAK

Enclosed are the results of analyses for samples received by the laboratory on 11/06/12 15:42.

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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keeno

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



BBC International, Inc.

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

Fax To: (505) 397-0397

Received: 11/06/2012 Sampling Date: 10/30/2012

Reported: 11/12/2012 Sampling Type: Soil

Project Name: SAND DUNES 28 #1 2ND LEAK Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

#### Sample ID: SP 1 @ SURFACE (H202705-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/09/2012	ND	432	108	400	0.00	

#### Sample ID: SP 1 @ 1' (H202705-02)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/09/2012	ND	432	108	400	0.00	

#### Sample ID: SP 2 @ SURFACE (H202705-03)

Chloride, SM4500CI-B	Chloride, SM4500Cl-B mg/kg								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/09/2012	ND	432	108	400	0.00	

#### Sample ID: SP 2 @ 1' (H202705-04)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/09/2012	ND	432	108	400	0.00	

Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (505) 397-0397

Received: 11/06/2012 Sampling Date: 10/30/2012

Reported: 11/12/2012 Sampling Type: Soil

Project Name: SAND DUNES 28 #1 2ND LEAK Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

#### Sample ID: SP 3 @ SURFACE (H202705-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	11/09/2012	ND	432	108	400	0.00	

#### Sample ID: SP 3 @ 1' (H202705-06)

Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/09/2012	ND	432	108	400	0.00	

## Sample ID: SP 4 @ SURFACE (H202705-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	11/09/2012	ND	432	108	400	0.00	

#### Sample ID: SP 4 @ 1' (H202705-08)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	11/12/2012	ND	416	104	400	0.00	

#### Sample ID: SP 4 @ 2' (H202705-09)

Chloride, SM4500CI-B	mg/kg			Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/12/2012	ND	416	104	400	0.00	

#### Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (505) 397-0397

Received: 11/06/2012 Sampling Date: 10/30/2012

Reported: 11/12/2012 Sampling Type: Soil

Project Name: SAND DUNES 28 #1 2ND LEAK Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

#### Sample ID: SP 5 @ SURFACE (H202705-10)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/12/2012	ND	416	104	400	0.00	

#### Sample ID: SP 5 @ 1' (H202705-11)

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	11/12/2012	ND	416	104	400	0.00	

#### Sample ID: SP 6 @ SURFACE (H202705-12)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/12/2012	ND	416	104	400	0.00	

#### Sample ID: SP 6 @ 1' (H202705-13)

Chloride, SM4500CI-B	SM4500Cl-B mg/kg			d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/12/2012	ND	416	104	400	0.00	

#### Sample ID: SP 7 @ SURFACE (H202705-14)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	92800	16.0	11/12/2012	ND	416	104	400	0.00	

#### Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (505) 397-0397

Received: 11/06/2012 Sampling Date: 10/30/2012

Reported: 11/12/2012 Sampling Type: Soil

Project Name: SAND DUNES 28 #1 2ND LEAK Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

#### Sample ID: SP 7 @ 1' (H202705-15)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	11/12/2012	ND	416	104	400	0.00	

#### Sample ID: SP 7 @ 3' (H202705-16)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	11/12/2012	ND	416	104	400	0.00	

#### Sample ID: SP 7 @ 6' (H202705-17)

Chloride, SM4500Cl-B	e, SM4500Cl-B mg/kg Analyzed By: AP								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/12/2012	ND	416	104	400	0.00	

#### Sample ID: SP 8 @ SURFACE (H202705-18)

Chloride, SM4500Cl-B	Analyze	d By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	43200	16.0	11/12/2012	ND	416	104	400	0.00	

#### Sample ID: SP 8 @ 1' (H202705-19)

Chloride, SM4500Cl-B	loride, SM4500Cl-B mg/kg			d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	11/12/2012	ND	416	104	400	0.00	

Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (505) 397-0397

Received: 11/06/2012 Sampling Date: 10/31/2012

Reported: 11/12/2012 Sampling Type: Soil

Project Name: SAND DUNES 28 #1 2ND LEAK Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

#### Sample ID: SP 8 @ 3' (H202705-20)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	11/12/2012	ND	416	104	400	0.00	

#### Sample ID: SP 8 @ 6' (H202705-21)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/12/2012	ND	416	104	400	0.00	

## Sample ID: SP 8 @ 7' (H202705-22)

Chloride, SM4500CI-B	mg,	mg/kg Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/12/2012	ND	416	104	400	0.00	

#### Sample ID: SP 9 @ SURFACE (H202705-23)

Chloride, SM4500CI-B	CI-B mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	58400	16.0	11/12/2012	ND	416	104	400	0.00	

#### Sample ID: SP 9 @ 1' (H202705-24)

Chloride, SM4500CI-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	11/12/2012	ND	416	104	400	0.00	

#### Cardinal Laboratories \*=Accredited Analyte

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

400

0.00



#### Analytical Results For:

BBC International, Inc.

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

Fax To: (505) 397-0397

Received: 11/06/2012 Sampling Date: 10/31/2012

Reported: 11/12/2012 Sampling Type: Soil

Project Name: SAND DUNES 28 #1 2ND LEAK Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

#### Sample ID: SP 9 @ 3' (H202705-25)

Chloride, SM4500Cl-B	mg	mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	11/12/2012	ND	416	104	400	0.00	
Sample ID: SP 9 @ 5' (F	1202705-26)								
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value OC	RPD	Oualifier

## Sample ID: SP 10 @ SURFACE (H202705-27)

<16.0

16.0

Chloride, SM4500Cl-B	mg/	kg -	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	34000	16.0	11/12/2012	ND	416	104	400	0.00	

ND

416

104

11/12/2012

#### Sample ID: SP 10 @ 1' (H202705-28)

Chloride

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	23600	16.0	11/12/2012	ND	400	100	400	0.00	

#### Sample ID: SP 10 @ 3' (H202705-29)

Chloride, SM4500Cl-B mg/kg			Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1570	16.0	11/12/2012	ND	400	100	400	0.00	

#### Cardinal Laboratories \*=Accredited Analyte

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

400

0.00



## Analytical Results For:

BBC International, Inc.

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

Fax To: (505) 397-0397

Received: 11/06/2012 Sampling Date: 10/31/2012

Reported: 11/12/2012 Sampling Type: Soil

Project Name: SAND DUNES 28 #1 2ND LEAK Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

#### Sample ID: SP 10 @ 6' (H202705-30)

Chloride, SM4500Cl-B	mg	mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	11/12/2012	ND	400	100	400	0.00	
Sample ID: SP 10 @ 7' (	H202705-31)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

## Sample ID: SP 11 @ SURFACE (H202705-32)

176

16.0

Chloride

Chloride, SM4500Cl-B	Chloride, SM4500Cl-B mg/kg			d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	27600	16.0	11/12/2012	ND	400	100	400	0.00	

ND

400

100

11/12/2012

#### Sample ID: SP 11 @ 1' (H202705-33)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10900	16.0	11/12/2012	ND	400	100	400	0.00	

#### Sample ID: SP 11 @ 3' (H202705-34)

Chloride, SM4500Cl-B mg/kg			Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	11/12/2012	ND	400	100	400	0.00	

#### Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (505) 397-0397

Received: 11/06/2012 Sampling Date: 10/31/2012

Reported: 11/12/2012 Sampling Type: Soil

Project Name: SAND DUNES 28 #1 2ND LEAK Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

#### Sample ID: SP 11 @ 6' (H202705-35)

Chloride, SM4500Cl-B	ride, SM4500Cl-B mg/kg			d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2920	16.0	11/12/2012	ND	400	100	400	0.00	

#### Sample ID: SP 11 @ 9' (H202705-36)

Chloride, SM4500Cl-B	CI-B mg/kg			d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3000	16.0	11/12/2012	ND	400	100	400	0.00	

## Sample ID: SP 11 @ 13' (H202705-37)

Chloride, SM4500CI-B	e, SM4500Cl-B mg/kg			d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4360	16.0	11/12/2012	ND	400	100	400	0.00	

#### Sample ID: SP 11 @ 18' (H202705-38)

Chloride, SM4500CI-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	11/12/2012	ND	400	100	400	0.00	

## Sample ID: SP 12 @ SURFACE (H202705-39)

Chloride, SM4500Cl-B	, SM4500Cl-B mg/kg			Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	72000	16.0	11/12/2012	ND	400	100	400	0.00	

#### Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (505) 397-0397

Received: 11/06/2012 Sampling Date: 10/31/2012

Reported: 11/12/2012 Sampling Type: Soil

Project Name: SAND DUNES 28 #1 2ND LEAK Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

#### Sample ID: SP 12 @ 1' (H202705-40)

Chloride, SM4500CI-B	SM4500Cl-B mg/kg			Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	11/12/2012	ND	400	100	400	0.00	

#### Sample ID: SP 12 @ 3' (H202705-41)

Chloride, SM4500Cl-B	, SM4500Cl-B mg/kg			Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7280	16.0	11/12/2012	ND	400	100	400	0.00	

## Sample ID: SP 12 @ 6' (H202705-42)

Chloride, SM4500CI-B	mg/kg			Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9600	16.0	11/12/2012	ND	400	100	400	0.00	

#### Sample ID: SP 12 @ 9' (H202705-43)

Chloride, SM4500Cl-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	11/12/2012	ND	400	100	400	0.00	

#### Sample ID: SP 12 @ 13' (H202705-44)

Chloride, SM4500Cl-B mg/kg			Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3240	16.0	11/12/2012	ND	400	100	400	0.00	

#### Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (505) 397-0397

Received: 11/06/2012 Sampling Date: 11/01/2012

Reported: 11/12/2012 Sampling Type: Soil

Project Name: SAND DUNES 28 #1 2ND LEAK Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: SP 12 @ 18' (H202705-45)

Chloride, SM4500Cl-B Analyzed By: AP Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 2120 11/12/2012 ND 400 0.00 16.0 100 400

Sample ID: SP 13 @ SURFACE (H202705-46)

Chloride, SM4500Cl-B Analyzed By: AP Reporting Limit Analyzed BS True Value QC RPD Analyte Result Method Blank % Recovery Qualifier Chloride 2840 16.0 11/12/2012 400 400 0.00 ND 100

Sample ID: SP 13 @ 1' (H202705-47)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 384 11/12/2012 400 400 0.00 16.0 ND 100

Sample ID: SP 13 @ 3' (H202705-48)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP Reporting Limit Method Blank True Value QC RPD Analyte Result Analyzed BS % Recovery Qualifier Chloride 96.0 16.0 11/09/2012 ND 432 108 400 0.00

Cardinal Laboratories \*=Accredited Analyte

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



### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

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

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

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

Cardinal Laboratories \*=Accredited Analyte

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

### ARDINAL LABORATORIES

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	pany Name: BBC International, Inc.									BI	LL 70						 ANA	LYS	IS	REC	QUE	ST		
** ****	: Cliff Brunson							P.C	). # <i>:</i>					T					T					
Address: P.O.	Box 805							Cor	mpan	y:			1	1										
city: Hobbs	State:	NM zi	p:	882	241			Att	n:				İ											
Phone #: 575-3	397-6388 Fax #:	575-39	<del>3</del> 7-	039	7			Add	dress	:														
Project #:		Owner:	Эху					City	y:		117.													
Project Name: S	SAND DUNES 28 #1 2ND LE	EAK						Sta	ite:		Zip:													
Project Location	: Eddy County, NM	1 4/4						Pho	one #	:														
Sampler Name:	Jeff Ornelas								κ#:		(S) (S)	2000000							-					
FOR LAB USE ONLY				$\perp$		MATR	IX		PRES	ERV	SAMPLI	NG	١,	, ]										
Lab I.D.	Sample I.D.	aword) ao avaron	JAN GAN	# CONTAINERS	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	OTHER:	DATE	TIME	-	3										
8	SP1 @ SURFACE	6	7	1		V			d		10/30/12	9:45 AM	1	/										
	SP1 @ 1' /	G	-	1		1			۰		10/30/12	10:00 AM	V	/									70010	
	SP2 @ SURFACE	e	2	,		1			*			10:11 AM	-	/										NO.
	SP2 @ 1' /	9	5	1					đ			10:29 AM	1	/										
777.	SP3 @ SURFACE		3	Ч.						Contract of the Contract of th		10:51 AM	+ ·	/		ļ		_					 	
	SP3 @ 1'	(		1		1			5	-	<u> </u>	11:01 AM		/			 1					ļ	-	
	SP4 @ SURFACE /	G G		9		1			6			11:19 AM	-	/			 							
8	SP4 @ 1'	-	9	9					0	1	A REPORT OF THE	11:30 AM	-	_		<u> </u>								
9	SP4 @ 2'		9	8								11:48 AM	1 4		w.		 			8			 	
10	SP5 @ SURFACE	C	_	١					4		10/30/12		<b>V</b>								2200			
analyses. All claims includi service. In no event shall C	nd Damages. Cardinal's liability and client's exclusive r ng those for negligence and any other cause whatsoev cardinal be liable for incidental or consequental damag ing out of or related to the performance of services her	ver shall be dee es, including wit	med v thout I	waived i limitatio	unless m n, busine	nade in w ess intern	riting and uptions,	rece loss o	ived by C of use, or	ardinal loss of	within 30 days after profits incurred by	er completion of a client, its subsidi	the appliaries,	plicable	е									

Relinquished By:	Date: Received By:	Phone Result:	☐ Yes	□ No	Add'l Phone #:
	11-6-12	Fax Result:	☐ Yes	□ No	Add'l Fax #:
1/2/11/	Time:	REMARKS:			
V Comprise Land					
Relinquished By:	Date: /2 Received By:				
		1			
135. 100-	3 y Clar Jenovi				
Ken Owney	3.97	1			
Delivered By: (Circle One)	Sample Condition CHECKED BY:	l .			
	Cool Intact (Initials)				
Sampler - UPS - Bus - Other:	Yes Yes				
	No □ No □ No				

#26

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



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

Company Name:	BBC International, Inc.			BI							NAL	YSIS.	REC	QUES	ĭΤ			
Project Manager	: Cliff Brunson		P.0	O. #:														
Address: P.O.	Box 805		Co	ompany:	****			3										
City: Hobbs	State: NM	zip: 88241	At	tn:														
Phone #: 575-3	397-6388 Fax #: 575	-397-0397	Ac	ddress:			l											
Project #:	Project Owner	r: Oxy	Ci	ty:														
Project Name: S	SAND DUNES 28 #1 2ND LEAK		St	ate:	Zip:									l				
Project Location	n: Eddy County, NM		Pł	none #:														
Sampler Name:	Jeff Ornelas	78.00.0	Fa	ax #:														
FOR LAB USE ONLY		. MATRIX		PRESERV.	SAMPLI	NG												
Lab I.D.	Sample I.D.	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER:	DATE	TIME	<i>Cl</i> ,											
11	SP5 @ 1' /	611			10/30/12		✓			-								
	SP6 @ SURFACE	61 /		-	10/30/12		<b>/</b>											
	SP6 @ 1' ~				10/30/12	***	✓.											
14	SP7 @ SURFACE	61 /	_		10/30/12		<b>√</b>	****										
	SP7 @ 1'	GIV	_		10/30/12		<b>V</b>	-		ļ								
16	SP7 @ 3'	611			10/30/12 10/30/12		/											
123	SP7 @ 6' // SP8 @ SURFACE //	61 /	-	3/	10/30/12		/										$\vdash$	
170	SP8 @ 1' /	61 /		8	10/30/12		1									/***		
50	SP8 @ 3' /	61			10/31/12		1	2.55	13 0				10.1		107	1000 W	M.	
analyses. All claims includ service. In no event shall C affiliates or successors aris Relinquished B Relinquished B	nd Demages. Cardinal's liability and client's exclusive remedy for ing those for negligence and any other cause whatsoever shall be Zardinal be liable for incidental or consequental damages, including out of or related to the performance of services hereunder by the Cardinal because the Cardinal because the Cardinal	e deemed waived unless made in writing ng without limitation, business interruptio (Cardinal, repardless of whether such da Received By:	and rec	ceived by Cardinal s of use, or loss of	I to the amount pai within 30 days afte profits incurred by	id by the client fo er completion of t client, its subsidia	the applicat aries, ise. esult: It:	□ Ye		No No		Phone Fax #:	#:					
Delivered By	/: (Circlé One)	Sample Cone	ditior	n CHEC	KED BY:													

(Initials)

Sampler - UPS - Bus - Other:

Cool Intact

☐ Yes ☐ Yes

☐ No ☐ No

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



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

Company Name	npany Name: BBC International, Inc.							180			BI	LI	07						ANA	LYS	IS	RE	QUE	ST			
Project Manager	: Cliff Brunson							Р.	O. ‡	<b>#:</b>					$\Box$												
Address: P.O.	Box 805							Cd	omp	oany	y:															. 1	
City: Hobbs	State: NM	Zip	: 8	82	41			At	tn:											ļ	ļ						
Phone #: 575-3	397-6388 Fax #: 575-	397	7-0	397	•			Ad	ddre	ess:	:										İ						
Project #:	Project Owner	: Ox	сy					Ci	ity:																		
Project Name: S	SAND DUNES 28 #1 2ND LEAK							St	tate	:		Zi	p:														
Project Location	n: Eddy County, NM			500 to 100 to 100				PI	hon	e #:										1							
Sampler Name:	Jeff Ornelas							Fa	ax#												١						
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	NATE	- 1"	SLUDGE OTHER:		SESI COOL	OTHER:		DATE	NG	=	) <sub>U</sub>											
21	SP8 @ 6' / SP8 @ 7' /	G	1			1				V		1	0/31/12	9:17 A	M	✓		 									
20%	SP8 @ 7' -/	6	П	L		<b>√</b>	1	$\perp$	_	V			0/31/12		_	✓				_	$\perp$						
93	SP9 @ SURFACE SP9 @ 1' SP9 @ 3' SP9 @ 5' SP9 @ 5' SP10 @ SURFACE SP10 @ SURFACE	6	1	<u> </u>		✓,			1	*		-	0/31/12			✓				_			ļ				
29	SP9 @ 1' /	G	1	L		V	+	1	╀	2		_	0/31/12		_	<b>√</b>			ļ	-	-		—				
43	SP9 @ 3' -/	6	1	_		2	-	+	╀	*	100	-	0/31/12			1	$\vdash$		-	-	-			<u> </u>	ľ		
l de	SP9 @ 5 .	6	H	┢	$\vdash$	200			-	8	-	-1-	10/31/12 10/31/12	-	_	1				+	$\dashv$		-	-	-		
00	SP10 @ SURFACE / SP10 @ 1' /	6	1	+-		1	+		+	*		_	10/31/12			1	1			-	$\dashv$		Ì				
230	SP10 @ 3'	6	9	-	1	1	+		1	0	1	-	0/31/12			1				+	1						
l ŠÖ	SP10 @ 6' ~	G		1	T	1					1	1	10/31/12	11:30 A	M	7		W (1								en 8	de en e
analyses. All claims includ service. In no event shall	and Damages. Cardinal's liability and client's exclusive remedy for ling those for negligence and any other cause whatsoever shall be Cardinal be liable for incidental or consequental damages, including sing out of or related to the performance of services hereunder by	any cla deeme g witho	ed wai	ved un tation,	less ma busine	ade in s ss inte	writing rruption	and re	ceived s of us	d by C se, or I	ardina loss of	al with f profit	nin 30 days aff its incurred by	er completion client, its sul	n of th	he applica aries,	able	20									
Relinquished E	7 Time:	2	ece	yed Ho	By:	<i>i/</i> )	Per	En	· engen	11	į			Phone Fax Re REMA	sul	lt:	☐ Yes	No No		l Pho l Fax		<b>#</b> :					
Delivered By	elinquished By:    Date:   Received By:						ntac	t /	() n	Z U c	- 2	CKE	P BY:														
Sampler - UPS	mpler - UPS - Bus - Other: ① ↓ □ ∀es □ No						H	No			1	7	1/4														

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



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

Company Name:	ompany Name: BBC International, Inc.									8//	<u>L 70</u>						NAL	YSIS	REC	QUES	iT			
Project Manager	r: Cliff Brunson							P.C	). #:															
Address: P.O.	Box 805							Co	mpan	y:														
city: Hobbs		State: NM	Zip:	88	241			Att	n:							1					1			
Phone #: 575-3	397-6388 <b>F</b>	Fax #: 575-	397	-039	<del>)</del> 7			Ad	dress	:	- 4/4/20011100	2000000000										- 1		
Project #:		Project Owner:	:Ox	у				City	y:		(1. Version )													
Project Name: S	SAND DUNES 28 #1 2	2ND LEAK						Sta	ite:		Zip:									1				
Project Location	n: Eddy County, NM							Ph	one #	:	***************************************						l	1						
Sampler Name:	Jeff Ornelas							Fax									-							
FOR LAB USE ONLY						MATR	IIX		PRES	ERV.	SAMPLI	NG												
Lab I.D.	Sample I.D  SP10 @ 7'  SP11 @ SURFACE  SP11 @ 1'  SP11 @ 3'		(G)RAB	# CONTAINERS	GROUNDWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	OTHER:	DATE	TIME	10											
31	SP10 @ 7'		G	1		1					10/31/12	11:51 AM	<b>✓</b>											
32.	SP11 @ SURFACE	. 1	6		$\perp$	1				1		1:05 PM	✓											
35	SP11 @ 1' /		G	4		1	_					1:11 PM	<b>✓</b>											
34	SP11 @ 3' SP11 @ 6' SP11 @ 9' SP11 @ 13' SP11 @ 18'	AND A	6	1	$\perp$			1	١,	1		1:20 PM	<b>√</b>											
35	SP11 @ 6'		6			0						1:40 PM	<b>✓</b>									,		
36	SP11 @ 9'	- No.	G				-			_		2:40 PM	<b>✓</b>											
37	SP11 @ 13'		6		+			-					1					,						
50	SP11 @ 18'		6	200		1		_	1		11/1/12	10:23 AM	\ <u>\</u>											
	SP12 @ SURFACE		6	A CANAL		1						3:00 PM	14		A RECEIVED 10 THE					ec 1000 c				
	SP12 @ 1' sand Damages. Cardinal's liability and client'	d'e evolusive remedy for	env clai	m arising	a wheth	er hasad i	n contra	et or to	et shall h	o limited		3:01 PM	√ V											
analyses. All claims includi service. In no event shall C	and Damages. Cardinal's liability and client ding those for negligence and any other cau Cardinal be liable for incidental or conseque sing out of or related to the performance of	use whatsoever shall be duental damages, including	deemed	d waived ut limitatio	d unless r ion, busir	made in w siness interr	writing ar	nd rece s, loss o	eived by 0 of use, or	Cardinal loss of p	within 30 days aft profits incurred by	ter completion of t client, its subsidia	the applic iaries,	able										
Relinquished B	y:	Date:	Re	ceive	ed B	y:						Phone Re		□ Ye			Add'l		#:				-	
1/1/	253	1/-6-0 Time:	1	- 2	15	1	6				a.	Fax Resu REMARK		□ Ye	es 🗆	No	Add'l	Fax #:						
Polinguished B	211.	3:00	Pr	coiv	ON B	2	ger	1	122-	1.7	,													

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



CHECKED BY: (Initials)

Sample Condition
Cool / Intact/
Yes Yes
No No No

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



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

Company Name	npany Name: BBC International, Inc.								IL,	470					ANAI	LYSIS	RE	QUES	ST		
	: Cliff Brunson					P	.O. #														
Address: P.O.	Box 805					С	omp	any:	,												
City: Hobbs	State: NM	Zip:	8	8241		Α	ttn:				A 4										
Phone #: 575-3	397-6388 Fax #: 575	-397	'-03	397		Α	ddre	ss:													
Project #:	Project Owner	r: Ox	у			c	ity:														
	SAND DUNES 28 #1 2ND LEAK					s	tate:		Z	Zip:											
Project Location	: Eddy County, NM					P	hone	#:													
Sampler Name:	Jeff Ornelas						ax #:														
42	Sample I.D.  SP12 @ 3' / SP12 @ 6' /	60	# CONTAINERS	~	MATRI	SLUDGE		ICE / COOL	OTHER:	DATE 10/31/12	<b>TIME</b> 3:10 PM 3:26 PM	100									
- Line	SP12 @ 9' /	6	(Barrell)			-	╄	1	-	10/31/12		<b>√</b>				-		<u> </u>			
1000	SP12 @ 13' / SP12 @ 18' /	00	I.		1			3/		11/1/12	10:59 AM 12:18 PM	<b>✓</b>	<u> </u>								
The state of the s	SP13 @ SURFACE	6	9		1	++			_	11/1/12	2:11 PM	<b>V</b>	-								
115	SP13 @ 1' /	8	2			-	-	1	1	11/1/12	2:12 PM	<b>V</b>				3					
US	SP13 @ 3'	6	9		1			1		11/1/12	2:30 PM	1									
1	KAP	× 2000		- 02 070 <b>19</b> 00						er deservation and an action	1 May 1		M. 100.41					0	w 10000 100 X 1 1 1000	 and the control of the state of	and make make you have a second or
analyses. All claims include service. In no event shall,	and Damages. Cardinal's liability and client's exclusive remedy for ing those for negligence and any other cause whatsoever shall be Cardinal be liable for incidental or consequental damages, includir ing out of or related to the performance of services hereunder by	e deeme	d waiv ut limite	ed unless mation, busine	ade in wr ss interru	iting and r uptions, lo	eceived ss of use	by Cardi , or loss	inal w	ithin 30 days after	er completion of to client, its subsidia	he applica	able								
Relinquished B	Date	Re	cei	ved By		05000					Phone Re Fax Resu		□ Y	No No		Phone Fax #:					
NA	Time	7		2/	j	0.					REMARK			 ,	12.00	. un n					
	Date: 11-6-12 Time: 2: (Circle One) 3: 42	D.		Co	nple C	ondition tact				ED BY:											
Delivered By	Weenel 3:42 (Circle One)	(P).		San	nple C																

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



April 19, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SAND DUNES #28 #1 SWD

Enclosed are the results of analyses for samples received by the laboratory on 04/15/13 8:40.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 04/15/2013 Sampling Date: 04/04/2013

Reported: 04/19/2013 Sampling Type: Soil

Project Name: SAND DUNES #28 #1 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

### Sample ID: SP 1 @ 1' (H300894-01)

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	04/18/2013	ND	2.04	102	2.00	7.37	
Toluene*	<0.050	0.050	04/18/2013	ND	2.01	100	2.00	7.72	
Ethylbenzene*	<0.050	0.050	04/18/2013	ND	2.01	101	2.00	7.77	
Total Xylenes*	<0.150	0.150	04/18/2013	ND	5.94	99.0	6.00	7.35	
Total BTEX	<0.300	0.300	04/18/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1970	16.0	04/16/2013	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/17/2013	ND	214	107	200	1.59	
DRO >C10-C28	<10.0	10.0	04/17/2013	ND	231	116	200	8.38	
Surrogate: 1-Chlorooctane	88.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	107 9	% 63.6-15	4						

### Sample ID: SP 1 @ 3' (H300894-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/16/2013	ND	432	108	400	0.00	

Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 04/15/2013 Sampling Date: 04/04/2013

Reported: 04/19/2013 Sampling Type: Soil

Project Name: SAND DUNES #28 #1 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

128

16.0

### Sample ID: SP 2 @ 1' (H300894-03)

Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1630	16.0	04/16/2013	ND	432	108	400	0.00	
Sample ID: SP 2 @ 3' (H3	00894-04)								
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

ND

432

108

400

0.00

### Sample ID: SP 3 @ 1' (H300894-05)

Chloride

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/16/2013	ND	432	108	400	0.00	

04/16/2013

### Sample ID: SP 3 @ 3' (H300894-06)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	04/16/2013	ND	432	108	400	0.00	

### Sample ID: SP 4 @ 1' (H300894-07)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/16/2013	ND	432	108	400	0.00	

### Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 04/15/2013 Sampling Date: 04/04/2013

Reported: 04/19/2013 Sampling Type: Soil

Project Name: SAND DUNES #28 #1 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

### Sample ID: SP 4 @ 2' (H300894-08)

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	04/18/2013	ND	2.04	102	2.00	7.37	
Toluene*	<0.050	0.050	04/18/2013	ND	2.01	100	2.00	7.72	
Ethylbenzene*	< 0.050	0.050	04/18/2013	ND	2.01	101	2.00	7.77	
Total Xylenes*	<0.150	0.150	04/18/2013	ND	5.94	99.0	6.00	7.35	
Total BTEX	<0.300	0.300	04/18/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/16/2013	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/17/2013	ND	214	107	200	1.59	
DRO >C10-C28	<10.0	10.0	04/17/2013	ND	231	116	200	8.38	
Surrogate: 1-Chlorooctane	88.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	103 9	% 63.6-15	4						

### Sample ID: SP 5 @ 1' (H300894-09)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	04/16/2013	ND	432	108	400	0.00	

Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 04/15/2013 Sampling Date: 04/04/2013

Reported: 04/19/2013 Sampling Type: Soil

Project Name: SAND DUNES #28 #1 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

### Sample ID: SP 5 @ 2' (H300894-10)

Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/16/2013	ND	432	108	400	0.00	
Sample ID: SP 6 @ 1' (H30 Chloride, SM4500Cl-B	00894-11) mg	/ka	Analyze	ed By: DW					

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	04/16/2013	ND	432	108	400	0.00	

### Sample ID: SP 6 @ 2' (H300894-12)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8720	16.0	04/16/2013	ND	432	108	400	0.00	

### Sample ID: SP 7 @ 6' (H300894-13)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1010	16.0	04/16/2013	ND	432	108	400	0.00	

### Sample ID: SP 8 @ 6' (H300894-14)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	04/16/2013	ND	432	108	400	0.00	

### Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 04/15/2013 Sampling Date: 04/08/2013

Reported: 04/19/2013 Sampling Type: Soil

Project Name: SAND DUNES #28 #1 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: SP 9 @ 6' (H300894-15)

Chloride, SM4500Cl-B mg/kg Analyzed By: DW

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

**Chloride 10600** 16.0 04/16/2013 ND 432 108 400 0.00

Sample ID: SP 10 @ 6' (H300894-16)

Chloride, SM4500Cl-B Analyzed By: DW Result Reporting Limit Analyzed BS True Value QC RPD Qualifier Analyte Method Blank % Recovery Chloride 8960 16.0 04/16/2013 432 400 0.00 ND 108

Cardinal Laboratories \*=Accredited Analyte

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



### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

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

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

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

Cardinal Laboratories \*=Accredited Analyte

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

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

	(==-)					Í
Company Name:	BBC International, Inc.	· Apply	BILLTO		ANALYSIS REQUEST	
Project Manager	Project Manager: Cliff Brunson	and the state of t	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:			
Project #:	Project Owner: Oxy	ner: Oxy	City:			
ame:	Sand Dunes 28 Federal #1 SWD		State: Zip:			
Project Location:	Eddy County, NM		Phone #:			
Sampler Name:	Roger Hernandez		Fax #:			
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	4		
		3				
Lab I.D.	Sample I.D.	3 OR (C TAINER NDWAT EWATE	BASE: OOL	(TE)	<u>P+1</u>	
#28026.H		# CON GROL	OTHE ACID/ ICE / C OTHE DATE TIME	CB		
	SP1 @ 1'	<u>-</u>	/ 4/4/13 9:40 AM	\ \ \	<u> </u>	
2	SP1 @ 3'	6-	4/4/13 10:18 AM	<u>≼</u>		
3	SP2 @ 1'	<u>ि</u> -	4/4/13 10:57AM	< <		
h	SP2 @ 3'	6-	4/4/13 11:48 AM	< <		
5	SP3 @ 1'	€ - -	4/4/13 12:52 PM	<b>∠</b>		
2,	SP3 @ 3'	<u>ि</u> -	4/4/13 1:27 PM	<u> </u>	-	
	SP4 @ 1'	<u> </u>	4/4/13 2:04 PM	^ <		
B	SP4 @ 2'	<u>○</u>	4/4/13 2:31 PM	<b>√</b> ✓	<b>✓</b>	
_	SP5 @ 1'	<u> </u>	4/4/13 3:08 PM			
В	SP5 @ 2'	G 1 V	4/4/13 3:26 PM	<b>\</b>		
PLEASE NOTE: Liability an analyses. All claims includin service. In no event shall Ca	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 the client for the analyses. All claims including those for negligence and any other cause whatesover shall be deemed wheet unless made in writing and rearested by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for include all or consequents damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	for any claim arising whether based in contract be deemed waived unless made in writing an unless made in writing an unless interruptions,	t or tort, shall be limited to the amount paid by the client d received by Cardinal within 30 days after completion of loss of use, or loss of profits incurred by client, its substances to the control of the control	t for the of the applicable idiaries,		,
Selvice. It ile event shan of	Control of the contro					

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

60 (2)

Sample Condition
Cool Intact

Yes
No No

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

Time:

Relinquished By:

Phone Result: Fax Result: REMARKS:

Page 8 of 9



						ax #	Aud Fax #:	ð	9	[ ]	S	REMARKS:	Z	101/201	1	B	م	1	1		Tipe - //	
			-		.:	Add'l Phone #:	Add'l F			□ Ye	esult:	Phone Result:		•		_		Received By:	eive	Rec	2//2//指	Relinquished By:
					-						iaries, ise.	client, its subsidi	limilation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiarie regardless of whether such claim is based upon any of the above stated reasons or otherwise.	or loss of pr	s of use, ased upo	otions, los claim is b	s interrup her such	i, busines is of whet	imitation	vithout I dinal, re	service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successons arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	service. In no event shall Card affiliates or successors arising
		•								ble	or the the applica	id by the client for er completion of I	to the amount pa vithin 30 days afte	be limited to Cardinal w	tort, shall ceived by	ng and re	ased in co	vhether ba	arising v vaived u	/ claim : emed w	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 the client for the 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 30 days after completion of the applicable	PLEASE NOTE: Liability and I analyses. All claims including t
								٠.								<u> </u>	-		-	<u> </u>	7	
-											-										The state of the s	
																					170	
-					.						<b>✓</b>	2:13 PM	4/8/13	<u> </u>			\		_	0	SP10 @ 6'	3/9/
											<	1:00 PM	4/8/13	\ _			<u>\</u>			<u>o</u>	SP9 @ 6'	3.51
		:									<u>-</u>	10:50 AM	4/8/13	<			<u> </u>			<b>♡</b>	SP8 @ 6'	3 11
										-	<	9:10 AM	4/8/13	<		-	<			5		<i>13</i> s
											<	9:48 AM	4/5/13	<			<u> </u>			0	SP6 @ 2'	25
											<b>~</b>	9:30 AM	4/5/13	<u> </u>			<u></u>			6	SP6 @ 1'	11, 8
	-							: '			0	TIME	DATE	ICE / C	OTHE ACID/	SLUD	SOIL OIL	WAST	_	_		#BROOKH
										•	1			COOL R:	:R : /BASE:			TEWAT!	JNDWA	AB OR (	Sample I.D.	Lab I.D.
												· .										
											لب	ING	SAMPLING	PRESERV.	PRI	_	MATRIX	~	1			FOR LAB USE ONLY
															Fax #:	_					Roger Hernandez	Sampler Name:
											<u> </u>			#	Phone #:	T					Eddy County, NM	Project Location:
	:							1			:		Zip:		State:	(C)	-				Sand Dunes 28 Federal #1 SWD	Project Name: Sa
								. /					Paris		City:	C				Š	Project Owner: Oxy	Project #:
											<u></u>			SS:	Address	Þ		7	039	397-	97-6388 Fax #: 575-397-0397	Phone #: 575-397-6388
			-		`										Attn:	Þ		241	88241	Zip:	State: NM	city: Hobbs
		•		٠										:ynr	Company:	C					Box 805	Address: P.O. Box 805
		•													P.O. #:	70					: Cliff Brunson	Project Manager:
			Ĭ	REQUEST	REC	YSIS	ANALYSIS							( <u>;</u>		2000					BBC International, Inc.	Company Name:

S

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

Relinquished By:

Date: Time:



August 11, 2013

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SAND DUNES 28-1

Enclosed are the results of analyses for samples received by the laboratory on 08/07/13 11:55.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keens

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: 08/07/2013 Sampling Date: 07/30/2013

Reported: 08/11/2013 Sampling Type: Soil

Project Name: SAND DUNES 28-1 Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

### Sample ID: SP 1 @ 1' (H301840-01)

BTEX 8260B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2013	ND	2.28	114	2.00	1.60	
Toluene*	<0.050	0.050	08/09/2013	ND	2.19	110	2.00	2.07	
Ethylbenzene*	<0.050	0.050	08/09/2013	ND	2.12	106	2.00	1.60	
Total Xylenes*	<0.150	0.150	08/09/2013	ND	6.32	105	6.00	3.00	
Total BTEX	<0.300	0.300	08/09/2013	ND					
Surrogate: Dibromofluoromethane	96.8	% 61.3-14	2						
Surrogate: Toluene-d8	101	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	106	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5480	16.0	08/09/2013	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/09/2013	ND	191	95.5	200	0.596	
DRO >C10-C28	<10.0	10.0	08/09/2013	ND	204	102	200	0.0598	
Surrogate: 1-Chlorooctane	104	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	130	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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

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: 08/07/2013 Sampling Date: 07/30/2013

Reported: 08/11/2013 Sampling Type: Soil

Project Name: SAND DUNES 28-1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: SP 1 @ 3' (H301840-02)

Chloride, SM4500CI-B mg/kg Analyzed By: AP

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

**Chloride 8240** 16.0 08/09/2013 ND 416 104 400 0.00

Sample ID: SP 1 @ 5' (H301840-03)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP Reporting Limit Analyzed Method Blank BS True Value QC RPD Qualifier Analyte Result % Recovery Chloride 16.0 08/09/2013 416 104 400 0.00 112 ND

Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc. Cliff Brunson P.O. Box 805

Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 08/07/2013 Sampling Date: 07/30/2013

Reported: 08/11/2013 Sampling Type: Soil

Project Name: SAND DUNES 28-1 Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: EDDY COUNTY, NM

### Sample ID: SP 2 @ 1' (H301840-04)

BTEX 8260B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2013	ND	2.28	114	2.00	1.60	
Toluene*	<0.050	0.050	08/09/2013	ND	2.19	110	2.00	2.07	
Ethylbenzene*	<0.050	0.050	08/09/2013	ND	2.12	106	2.00	1.60	
Total Xylenes*	<0.150	0.150	08/09/2013	ND	6.32	105	6.00	3.00	
Total BTEX	<0.300	0.300	08/09/2013	ND					
Surrogate: Dibromofluoromethane	99.5	% 61.3-14	2						
Surrogate: Toluene-d8	102	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	104	% 65.7-14	1						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	08/09/2013	ND	416	104	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/09/2013	ND	191	95.5	200	0.596	
DRO >C10-C28	<10.0	10.0	08/09/2013	ND	204	102	200	0.0598	
Surrogate: 1-Chlorooctane	104	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	129	% 63.6-15	4						

### Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 08/07/2013 Sampling Date: 07/30/2013

Reported: 08/11/2013 Sampling Type: Soil

Project Name: SAND DUNES 28-1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: SP 2 @ 3' (H301840-05)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 4800 08/09/2013 ND 400 100 400 3.92 16.0

Sample ID: SP 2 @ 4' (H301840-06)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP Reporting Limit Analyzed Method Blank BS True Value QC RPD Qualifier Analyte Result % Recovery Chloride 256 16.0 08/09/2013 400 100 400 3.92 ND

Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc. Cliff Brunson

P.O. Box 805 Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 08/07/2013 Sampling Date: 07/30/2013

Reported: 08/11/2013 Sampling Type: Soil

EDDY COUNTY, NM

Project Name: SAND DUNES 28-1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Sample ID: SP 3 @ 1' (H301840-07)

Project Location:

BTEX 8260B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2013	ND	2.28	114	2.00	1.60	
Toluene*	<0.050	0.050	08/09/2013	ND	2.19	110	2.00	2.07	
Ethylbenzene*	<0.050	0.050	08/09/2013	ND	2.12	106	2.00	1.60	
Total Xylenes*	<0.150	0.150	08/09/2013	ND	6.32	105	6.00	3.00	
Total BTEX	<0.300	0.300	08/09/2013	ND					
Surrogate: Dibromofluoromethane	97.3	% 61.3-14	2						
Surrogate: Toluene-d8	100	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	106	% 65.7-14	1						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7200	16.0	08/09/2013	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/09/2013	ND	191	95.5	200	0.596	
DRO >C10-C28	581	10.0	08/09/2013	ND	204	102	200	0.0598	
Surrogate: 1-Chlorooctane	107	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	142	% 63.6-15	4						

### Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 08/07/2013 Sampling Date: 07/31/2013

Reported: 08/11/2013 Sampling Type: Soil

Project Name: SAND DUNES 28-1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: SP 3 @ 3' (H301840-08)

Chloride, SM4500CI-B mg/kg Analyzed By: AP

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

**Chloride** 3680 16.0 08/09/2013 ND 400 100 400 3.92

Sample ID: SP 3 @ 5' (H301840-09)

Chloride, SM4500Cl-B Analyzed By: AP mg/kg Reporting Limit Analyzed Method Blank BS True Value QC RPD Qualifier Analyte Result % Recovery Chloride 2560 16.0 08/09/2013 400 400 3.92 ND 100

Sample ID: SP 3 @ 8' (H301840-10)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 288 08/09/2013 ND 400 400 3.92 16.0 100

Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc. Cliff Brunson P.O. Box 805

Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 08/07/2013 Sampling Date: 07/31/2013

Reported: 08/11/2013 Sampling Type: Soil

EDDY COUNTY, NM

Project Name: SAND DUNES 28-1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Sample ID: SP 4 @ 1' (H301840-11)

Project Location:

BTEX 8260B	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	08/09/2013	ND	2.28	114	2.00	1.60	
Toluene*	<0.050	0.050	08/09/2013	ND	2.19	110	2.00	2.07	
Ethylbenzene*	<0.050	0.050	08/09/2013	ND	2.12	106	2.00	1.60	
Total Xylenes*	<0.150	0.150	08/09/2013	ND	6.32	105	6.00	3.00	
Total BTEX	<0.300	0.300	08/09/2013	ND					
Surrogate: Dibromofluoromethane	96.9	% 61.3-14	22						
Surrogate: Toluene-d8	101	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	105	% 65.7-14	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	08/09/2013	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/09/2013	ND	191	95.5	200	0.596	
DRO >C10-C28	<10.0	10.0	08/09/2013	ND	204	102	200	0.0598	
Surrogate: 1-Chlorooctane	109	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	131	% 63.6-15	14						

Surrogate: 1-Chlorooctadecane 131 % 63.6-154

Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 08/07/2013 Sampling Date: 07/31/2013

Reported: 08/11/2013 Sampling Type: Soil

Project Name: SAND DUNES 28-1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: SP 4 @ 3' (H301840-12)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 928 16.0 08/09/2013 ND 400 100 400 3.92

Sample ID: SP 4 @ 4 (H301840-13)

Chloride, SM4500Cl-B Analyzed By: AP mg/kg Reporting Limit Analyzed Method Blank BS True Value QC RPD Qualifier Analyte Result % Recovery Chloride 144 16.0 08/09/2013 400 100 400 3.92 ND

Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc. Cliff Brunson P.O. Box 805

Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 08/07/2013 Sampling Date: 07/31/2013

Reported: 08/11/2013 Sampling Type: Soil

Project Name: SAND DUNES 28-1 Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: EDDY COUNTY, NM

### Sample ID: SP 5 @ 1' (H301840-14)

BTEX 8260B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2013	ND	2.28	114	2.00	1.60	
Toluene*	<0.050	0.050	08/09/2013	ND	2.19	110	2.00	2.07	
Ethylbenzene*	<0.050	0.050	08/09/2013	ND	2.12	106	2.00	1.60	
Total Xylenes*	<0.150	0.150	08/09/2013	ND	6.32	105	6.00	3.00	
Total BTEX	<0.300	0.300	08/09/2013	ND					
Surrogate: Dibromofluoromethane	97.2	% 61.3-14	2						
Surrogate: Toluene-d8	101	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	105	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6640	16.0	08/09/2013	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/09/2013	ND	191	95.5	200	0.596	
DRO >C10-C28	41.1	10.0	08/09/2013	ND	204	102	200	0.0598	
Surrogate: 1-Chlorooctane	103	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	126	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 08/07/2013 Sampling Date: 07/31/2013

Reported: 08/11/2013 Sampling Type: Soil

Project Name: SAND DUNES 28-1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: SP 5 @ 3' (H301840-15)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 560 08/09/2013 ND 400 400 3.92 16.0 100

Sample ID: SP 5 @ 5' (H301840-16)

Chloride, SM4500Cl-B Analyzed By: AP mg/kg Reporting Limit Analyzed Method Blank BS True Value QC RPD Qualifier Analyte Result % Recovery Chloride 3920 16.0 08/09/2013 400 400 3.92 ND 100

Sample ID: SP 5 @ 9' (H301840-17)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 14200 08/09/2013 ND 400 400 3.92 16.0 100

Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc. Cliff Brunson P.O. Box 805

Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 08/07/2013 Sampling Date: 08/01/2013

Reported: 08/11/2013 Sampling Type: Soil

EDDY COUNTY, NM

Project Name: SAND DUNES 28-1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Sample ID: SP 6 @ 1' (H301840-18)

Project Location:

BTEX 8260B	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	08/09/2013	ND	2.28	114	2.00	1.60	
Toluene*	<0.050	0.050	08/09/2013	ND	2.19	110	2.00	2.07	
Ethylbenzene*	<0.050	0.050	08/09/2013	ND	2.12	106	2.00	1.60	
Total Xylenes*	<0.150	0.150	08/09/2013	ND	6.32	105	6.00	3.00	
Total BTEX	<0.300	0.300	08/09/2013	ND					
Surrogate: Dibromofluoromethane	97.2	% 61.3-14	2						
Surrogate: Toluene-d8	100	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	104	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9800	16.0	08/09/2013	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/09/2013	ND	191	95.5	200	0.596	
DRO >C10-C28	<10.0	10.0	08/09/2013	ND	204	102	200	0.0598	
Surrogate: 1-Chlorooctane	111 5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	135	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 08/07/2013 Sampling Date: 08/01/2013

Reported: 08/11/2013 Sampling Type: Soil

Project Name: SAND DUNES 28-1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: SP 6 @ 3' (H301840-19)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

**Chloride** 9200 16.0 08/09/2013 ND 400 100 400 3.92

Sample ID: SP 6 @ 5' (H301840-20)

Chloride, SM4500Cl-B Analyzed By: AP mg/kg Reporting Limit Analyzed Method Blank BS True Value QC RPD Qualifier Analyte Result % Recovery Chloride 5460 16.0 08/09/2013 400 400 3.92 ND 100

Sample ID: SP 6 @ 7' (H301840-21)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 08/09/2013 ND 400 400 3.92 <16.0 16.0 100

Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc. Cliff Brunson P.O. Box 805

Hobbs NM, 88241

Fax To: (575) 397-0397

Received: 08/07/2013 Sampling Date: 08/01/2013

Reported: 08/11/2013 Sampling Type: Soil

Project Name: SAND DUNES 28-1 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: EDDY COUNTY, NM

### Sample ID: SP 7 @ 1' (H301840-22)

BTEX 8260B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2013	ND	2.28	114	2.00	1.60	
Toluene*	<0.050	0.050	08/09/2013	ND	2.19	110	2.00	2.07	
Ethylbenzene*	<0.050	0.050	08/09/2013	ND	2.12	106	2.00	1.60	
Total Xylenes*	<0.150	0.150	08/09/2013	ND	6.32	105	6.00	3.00	
Total BTEX	<0.300	0.300	08/09/2013	ND					
Surrogate: Dibromofluoromethane	97.0	% 61.3-14	2						
Surrogate: Toluene-d8	101	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	104	% 65.7-14	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	08/09/2013	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/09/2013	ND	191	95.5	200	0.596	
DRO >C10-C28	<10.0	10.0	08/09/2013	ND	204	102	200	0.0598	
Surrogate: 1-Chlorooctane	110	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	132	% 63.6-15	4						

### Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 08/07/2013 Sampling Date: 08/01/2013

Reported: 08/11/2013 Sampling Type: Soil

Project Name: SAND DUNES 28-1 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: SP 7 @ 3' (H301840-23)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier

**Chloride** 3680 16.0 08/09/2013 ND 400 100 400 3.92

Sample ID: SP 7 @ 4' (H301840-24)

Chloride, SM4500Cl-B Analyzed By: AP mg/kg Reporting Limit Analyzed BS True Value QC RPD Qualifier Analyte Result Method Blank % Recovery 16.0 08/09/2013 400 400 3.92 Chloride <16.0 ND 100

Sample ID: SP 8 @ 2' (H301840-25)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 1760 08/09/2013 ND 400 0.00 16.0 416 104

Cardinal Laboratories \*=Accredited Analyte

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



### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

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

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

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

Cardinal Laboratories \*=Accredited Analyte

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

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476	i v	
Company Name: BBC International, Inc.	हार्र ४०	ANALYSIS REQUEST
Project Manager: Cliff Brunson	P.O. #:	
Address: P.O. Box 805	Company:	
City: Hobbs State: NM Zip: 88241	Attn:	
Phone #: 575-397-6388 Fax #: 575-397-0397	Address:	•
Project #: Project Owner: Oxy	City:	
Project Name: Sand Dunes 28-1	State: Zip:	
Eddy County NIM		

Company Name:	BBC International, Inc.						811							ANALYSIS	SIS	ᇛ	REQUEST	┇	▋┃		]	لــــــــــــــــــــــــــــــــــــــ
Address: P.O.	Address: P.O. Box 805				င္ပ	Company:	y:		·											٠		-
city: Hobbs	State: NM		Zip:	88241	Attn:	5														-		-
Phone #: 575-397-6388	Fax #:	75-3	97-(	575-397-0397	Ad	Address	••											Ş				
Project #:	Project Owner: Oxy	ner:	χQ		City:	Y.							-									
Project Name: S	Project Name: Sand Dunes 28-1		-		State:	ite:		Zip:														-
Project Location:	n: Eddy County, NM				Ph	Phone #:	••							<u></u>				,	٠.			
Sampler Name:	Jeff Ornelas				Fax	Fax #:	,															
FOR LAB USE ONLY			_	MATRIX	_	PRESERV.	ERV.	SAMPLING	NG													
Lab I.D.	Sample I.D.		3 OR (C)OMP	NDWATER EWATER				.*		1	OH .	TEX	e e e e e e e e e e e e e e e e e e e								<u>"</u> "	
H30/840				GROUI WASTE SOIL OIL	SLUDG OTHER	ACID/B	OTHER	DATE	TIME	<u>C</u>	TF	B						:				
-	SP1 @ 1'		<u>-</u>	<		<		7/30/13	9:22 AM	<	<	<.										لــا
2	SP1 @ 3'		0	<u>-</u>		<u> </u>		7/30/13	10:01 AM	<										\		L
8	SP1 @ 5'		6	<u> </u>		<		7/30/13	11:00 AM	<						:						
h	SP2 @ 1'		<u>(</u>			<		7/30/13	11:45 AM	<	<	<										<u> </u>
ડ	SP2 @ 3'	·	<u>_</u>	<u>-</u> ح		<		7/30/13	1:29 PM	<u> </u>												L
6	SP2 @ 4'		9	<		į.		7/30/13	1:44 PM	<												L
7	SP3 @ 1'	_	0			<u> </u>		7/30/13	2:15 PM	<b>~</b>	<	<			*							
8	SP3 @ 3'		0	<u>-</u>		<u>ر</u>		7/31/13	8:55 AM	<b>~</b>												<u> </u>
٩	SP3 @ 5'		0		;	ર		7/31/13	9:40 AM	<												<u> </u>
ā	SP3 @ 8'	Ļ	<u>G</u> 1	- -		ζ.		7/31/13	11:00 AM	<b>~</b>			L	L	ļ	<u> </u>						<u> </u>
PLEASE NOTE: Liability as	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 the client for the	/ for any	claim a	insing whether based in cont	tract or tor	rt, shall be	limited to	the amount pair	1 by the client for	the		<b>5</b>										

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

たが

Sample Condition
Cool Intact
Wes Il Yes
No No

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

Relinguished By:

Relinquished By

51/13

Phone Result: Fax Result: REMARKS:

□ Yes

Add'l Phone #: Add'l Fax #:

Received By:

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 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

Page 17 of 19

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476		
Company Name: BBC International, Inc.	<u> </u>	ANALYSIS REQUEST
Project Manager: Cliff Brunson	P.O. #:	
Address: P.O. Box 805	Company:	
City: Hobbs State: NM Zip: 88241	Attn:	
Phone #: 575-397-6388 Fax #: 575-397-0397	Address:	
Project #: Project Owner: OXY	City:	
Project Name: Sand Dunes 28-1	State: Zip:	
Project Location: Eddy County, NM	Phone #:	
Sampler Name: Jeff Ornelas	Fax #:	

city: Hobbs	Sta	State: NM 2	zip: 88241	88	241			_	Attn:																	
Phone #: 575-397-6388		575	97-	039	)7			_	dd	Address:	•			1									. "			
Project #:	Proj	Project Owner: Oxy	Q X Q					_	City:													,				
Project Name: S	Project Name: Sand Dunes 28-1							(0	State:	14.		Zip:							•	•						
Project Location:	: Eddy County, NM							77	ᅙ	Phone #:	•															
Sampler Name:	Jeff Ornelas							71	Fax #:	#																-
FOR LAB USE ONLY				$\blacksquare$	1	MATRIX	RX		P	RES	PRESERV.	SAMPLING	NG				<i></i>									
																									-	
Lab I.D.	Sample I.D.	·	AB OR ( NTAINE	UNDWA	TEWAT				BASE:	COOL				( -	PH	EX										·-··
D18108H					<del> </del>	SOIL	OIL	SLU	OTH	ļ	ОТН	DATE	TIME	(	T	B					-					
	SP4 @ 1'	0	0			<	<u> </u>	-				7/31/13	11:53 AM	<b>\</b>	<	<u>\</u>									1	
7	SP4 @ 3'		9			<				<		7/31/13	1:29 PM	<b>✓</b>												- !
U U	3 SP4 @ 4'		0			<				۲.		7/31/13	1:51 PM	1	. '											
14	SP5 @ 1'		0			<				· ·	_	7/31/13	2:08 PM	<b>✓</b>	<	<		÷				į				
J.	SP5 @ 3'	0	0			_			-			7/31/13	2:29 PM	<											-	
<u>2</u>	SP5 @ 5'	_	0			<u>`</u>						7/31/13	3:13 PM	<												
Ţ.	SP5 @ 9'	(	6			<				<		8/1/13	9:37 AM	<												
8	SP6 @ 1'		0	_		1			_	<		8/1/13	10:23 AM	<	<	<										!
<u> </u>	SP6 @ 3'		0			<				<u>.</u>		8/1/13	11:00 AM	<									-			
20	20  SP6 @ 5'		<u> </u>	_		<u> </u>			-	<	Ť.	8/1/13	11:44 AM	<u> </u>	-											
PLEASE NOTE: Liability an	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 the client for the	sive remedy for any	claim a	rising v	vhether	based	in con	ract or	tori, si	nall be	limited	to the amount pai	by the client for	the		ĺ			ı					I		L

analyses. All claims including those for negligence and any other cause whatsoever shall be deemed weived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successons arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or otherwise. Sampler - UPS - Bus - Other: Delivered By: (Circle One) 81418° Time: DD pr Received By Phone Result:
Fax Result:
REMARKS:

□ No No

Add'l Phone #: Add'l Fax #:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 18 of 19

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

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

	(000) 000 =0=0 : 700 (000) 000 =	7.0							
Company Name:	<ul> <li>BBC International, Inc.</li> </ul>		el tire			ANALYSIS	IS REQUEST		
Project Manager:	1		P.O. #:						
Address: P.O.	Box 805		Company:				-		-
City: Hobbs	State: NM	l zip: 88241	Attn:						
Phone #: 575-397-6388	Fax #:	Ģ	Address:				1		
Project #:	Project Owner: Oxy	<sub>ter:</sub> Oxy	City:						
Project Name: S	Project Name: Sand Dunes 28-1		State: Zip:						
Project Location:	1: Eddy County, NM		#						-
Sampler Name:	Jeff Ornelas		Fax #:						
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	ត					
:		RS TER			-		······································		
Lab I.D.	Sample I.D.		DGE IER: D/BASE: / COOL IER:	n(	PH TEX				
H201240		# C GF W/ SC	OT AC	TIME	ß				
-	SP6 @ 7'	- 2	/ 8/1/13 1	11:58 AM					
72	SP7 @ 1'	-	8/1/13 1	1:20 PM 🗸	< <				
22	SP7 @ 3'	0	8/1/13 1	1:58 PM ✓					
24	SP7 @ 4'	0	8/1/13 2	2:19 PM 🗸					
25	SP8 @ 2'	0	8/1/13 3	3:16 PM 🖌					
			-						
	1800								
	01.7								
LEASE NOTE: Liability and	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 the client for the	or any claim arising whether based in contr	act or tort, shall be limited to the amount paid b	y the client for the					
nalyses. All claims includin ervice. In no event shall Ca iffiliates or successors arisin	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 30 days after completion of the applicable service. In no event shall Cardinal le liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss for list incurred by claim, its subsidiaries, stiffliates or successors arising out of or related to the performance of services thereigned the control of the performance of services hereigned to the services hereigned to the services hereigned to the services hereigned to the services hereigned to the services hereigned to th	shall be deemed waived unless made in writing and received by ( including without limitation, business interruptions, loss of use, or nder by Cardinal, reparalless of whether such claim is based upon	and received by Cardinal within 30 days after completion of the is, loss of use, or loss of profits incurred by client, its subsidiaring its hased upon any of the shows stated process for although	ompletion of the applicable nt, its subsidiaries,					
Relinguished By:	Date://	Received By: //		17		o Add'l Phone #:	e 井:		
10 HW/	<b>&gt;</b> /		V	REMARKS:	□ Yes □ No	L		3	
Rělinguished By:		Received By:							
2 m	7 Time: Saw	~ UML S	lemoor-					,	
Delivered By: (Circle One)	(Circle One)	Sample Condition	ition CHECKEDIBY:						
Sampler - UPS -	Bus - Other:	5, 20 No. 12 No.	Yes X						
									L



July 24, 2015

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SAND DUNES 28 FED #1 SWD BATTERY ( 10/06/14 LEAK )

Enclosed are the results of analyses for samples received by the laboratory on 07/17/15 11:20.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. 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: 07/17/2015 Sampling Date: 07/15/2015

Reported: 07/24/2015 Sampling Type: Soil

Project Name: SAND DUNES 28 FED #1 SWD BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Judy Garcia

Project Location: EDDY COUNTY ,NM

### Sample ID: SP1 @ SURFACE (H501848-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	26800	16.0	07/22/2015	ND	416	104	400	0.00	
Sample ID: SP1 @ 1' (H5	01848-02)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	07/22/2015	ND	416	104	400	0.00	
Sample ID: SP1 @ 2' (H5	01848-03)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	07/22/2015	ND	416	104	400	0.00	
Sample ID: SP2 @ SURFA	ACE (H501848-	·04)							
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	07/22/2015	ND	416	104	400	0.00	

### Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 07/17/2015 Sampling Date: 07/15/2015

Reported: 07/24/2015 Sampling Type: Soil

Project Name: SAND DUNES 28 FED #1 SWD BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Judy Garcia

Project Location: EDDY COUNTY ,NM

## Sample ID: SP3 @ SURFACE (H501848-05)

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22000	16.0	07/22/2015	ND	432	108	400	0.00	

## Sample ID: SP3 @ 1' (H501848-06)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2200	16.0	07/22/2015	ND	432	108	400	0.00		

## Sample ID: SP3 @ 2' (H501848-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1640	16.0	07/22/2015	ND	432	108	400	0.00	

## Sample ID: SP3 @ 3' (H501848-08)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	07/22/2015	ND	432	108	400	0.00	

## Sample ID: SP3 @ 4' (H501848-09)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	07/22/2015	ND	432	108	400	0.00	

## Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 07/17/2015 Sampling Date: 07/15/2015

Reported: 07/24/2015 Sampling Type: Soil

Project Name: SAND DUNES 28 FED #1 SWD BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Judy Garcia

Project Location: EDDY COUNTY ,NM

## Sample ID: SP3 @ 5' (H501848-10)

Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	07/22/2015	ND	432	108	400	0.00	

Cardinal Laboratories \*=Accredited Analyte

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



## **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

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

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

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

Cardinal Laboratories \*=Accredited Analyte

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

## ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476 ame: RRC International Laboratory

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Inni fundame	BBC International, Inc.		25 THE	2)				
Project Manager:	er: Cliff Brunson		P.O. #:			ANALYSIS	REQUEST	
Address: P.O. Box 805	). Box 805		Company					
city: Hobbs	State: NM	Zip: 88241	Attn:					
Phone #: 575-397-6388	Fax #:	0397	Address:					
Project #:	Project Owner: Oxy		City:					
Project Name:	Project Name: Sand Dunes 28 Fed #1 SWD Battery (10/06/14 leak)							
Project Location:	n: Eddy County, NM		Dhan #					
Sampler Name			Phone #:					
FOR LAB LISE ONLY	Jell Ornelas		Fax #:					
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	LING				
Lab I.D.	Sample I.D.		SE: OL					
Sh8105H		# CON GROUN WASTE SOIL OIL SLUDG	ACID/BAICE / CC	TIME CI	<u> </u>			
5.	SP1 @ 1'	\ \ \	7/15/15	12:50 PM			+	
2	SP1 @ 2	> G	7/15/15	1:11 PM				
7	SP3 @ SIIBEACE	10	7/15/15	1:20 PM				
r	SP3 @ SUBFACE	3	7/15/15	1:46 PM 🗸				
0	SP3 @ 1'	7	7/15/15	2:15 PM 🗸				
7	SP3 @ 2'	P (	7/15/15	-				
8	SP3 @ 3'	60	7/15/15	2:46 PM				
2	SP3 @ 4'	0	7/15/15	2:50 PM				
10	SP3 @ 5'	\ - \	THEHE	2.07 FM				
PLEASE NOTE: Liability and analyses. All claims including	PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the	ry claim arising whether based in contract or to	ort, shall be limited to the amount pa	aid by the client for the				
service. In no event shall Carn affiliates or successors arising Relinquished By:	service. In no event shall Cardinal be islable for incidental or consequental damages, including without limitation, business made in writing and received by Cardinal within 3d days after completion of the applicable affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.  Relinquished By:  Received By:	cover shall be deemed waived unless made in writing and received by Cardinal within 30 days in ages, including without limitation, business interruptions, loss of use, or loss of profits incurred thereunder by Cardinal, regardless of whether such daim is based upon any of the above stated	selved by Cardinal within 30 days afto of use, or loss of profits incurred by sed upon any of the above stated re	er completion of the applic client, its subsidiaries, asons or otherwise.	able			
1000		Necelved By:	,	Phone Result: Fax Result:	□ Yes □			
Relinquished By:	wood,	July 5	Cinca	REMARKS:		NO Add'I Fax #:		
				•				

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

CHECKED BY:

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



July 10, 2014

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SAND DUNES #28 #1 SWD

Enclosed are the results of analyses for samples received by the laboratory on 07/08/14 8:23.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 07/08/2014 Sampling Date: 07/02/2014

Reported: 07/10/2014 Sampling Type: Soil

Project Name: SAND DUNES #28 #1 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: PURE GOLD RD

Sample ID: SB 1 @ 21' (H402059-01)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP Reporting Limit Analyzed Method Blank BS % Recovery True Value OC RPD Oualifier Analyte Result 160 400 Chloride 16.0 07/10/2014 ND 100 400 3.92

Sample ID: SB 1 @ 24' (H402059-02)

Chloride, SM4500Cl-B Analyzed By: AP Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 224 16.0 07/10/2014 ND 400 100 400 3.92

Sample ID: SB 1 @ 26' (H402059-03)

Chloride, SM4500Cl-B Analyzed By: AP mg/kg Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 240 16.0 07/10/2014 ND 400 3.92 400 100

Cardinal Laboratories \*=Accredited Analyte

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



## **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

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

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

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

Cardinal Laboratories \*=Accredited Analyte

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

-1			2
company warrie: BBC International, Inc.		04 77/19	ANALYSIS REDIFERT
Project Manager: Cliff Brunson		P.O. #:	- CIC
Address: P.O. Box 805		Company: OXV	
City: Hobbs State: NM	Zip: 88241	Aftn:	
Phone #: 575-397-6388 Fax #: 57	397-0397	Address:	
Project #: Project Owner:	OXY	City	
Project Name: Soud Junes 28		State: Zip:	
Project Location: Tupe Gold Rd		#	
Sampler Name: Will Short	-	Fax #:	
FOR LAB USE ONLY.	MATRIX	PRESERV. SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER:  DATE  TIME	
1,56,187	61 1	N/5/6 /	
7 50 000	6 1	V 7/4/4 NOIH V	
7 30 M 79 C	6	N 8001 Milk N	
8	7		

PLASS NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or bot, shall be limited to the amount paid by the client for the 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 30 days after completion of the applicable service. In no event shall Cardinal be lable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, Date: Received By: rdinal, recardless of whether such claim is based upon any of the above stated Received By: Fax Result: REMARKS: Phone Result: □ Yes N S

Relinquished By: Sampler - UPS - Bus - Other: Relinquished By: Delivered By: (Circle One) Time: Yes Yes Sample Condition

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-247



July 24, 2015

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: SAND DUNES 28 FED #1 SWD BATTERY ( 10/23/14 LEAK )

Enclosed are the results of analyses for samples received by the laboratory on 07/17/15 11:20.

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

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 07/17/2015 Sampling Date: 07/15/2015

Reported: 07/24/2015 Sampling Type: Soil

Project Name: SAND DUNES 28 FED #1 SWD BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Judy Garcia

Project Location: EDDY COUNTY, NM

## Sample ID: SP1 @ SURFACE (H501849-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6960	16.0	07/22/2015	ND	432	108	400	0.00	
Sample ID: SP1 @ 1' (H5	601849-02)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	07/22/2015	ND	432	108	400	0.00	
Sample ID: SP1 @ 2' (H5	601849-03)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/22/2015	ND	432	108	400	0.00	
Sample ID: SP2 @ SURF	ACE (H501849	-04)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3000	16.0	07/22/2015	ND	432	108	400	0.00	

## Cardinal Laboratories \*=Accredited Analyte

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



BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 07/17/2015 Sampling Date: 07/15/2015

Reported: 07/24/2015 Sampling Type: Soil

Project Name: SAND DUNES 28 FED #1 SWD BATTERY Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Judy Garcia

Project Location: EDDY COUNTY, NM

Sample ID: SP2 @ 1' (H501849-05)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 432 16.0 07/22/2015 ND 432 108 400 0.00

Sample ID: SP2 @ 2' (H501849-06)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/22/2015	ND	432	108	400	0.00	

Cardinal Laboratories \*=Accredited Analyte

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

Celeg D. Keene



## **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

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

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

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

Cardinal Laboratories \*=Accredited Analyte

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



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

company Name: BBC International, Inc.	
Project Manager: Cliff Brunson	PO # ANALYSIS REQUEST
Address: P.O. Box 805	100 110
City: Hobbs State: NM Zin: 88241	Company:
5-397-	Address
Project #: Project Owner: Oxy	Oil
Project Name: Sand Dunes 28 Fed #1 SWD Battery (10/23/14 leak)	
Project Location: Eddy County, NM	Dr. L.
	Fnone #:
٦.	Fax #:
MATRIX	PRESERV. SAMPLING
RS ER	
AINER DWAT VATE	SE:
TROISE B)RAB CONTI ROUNI ASTEV DIL L	CID/BASE / COO
# # G W S O	O AC IC O DATE
	4 7 3 3 3 3 AM
	✓ 7/15/15 9:38 AM ✓
JRFACE	✓ 7/15/15 10:10 AM ✓
	✓ 7/15/15 10:30 AM ✓
	✓ 7/15/15 10:41 AM ✓
	7/15/15 11:07 AM 🗸
2  4  7	
(94)	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim srising whether based in contract or text and a second	Or had a half by E. F. St. Life of
service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business of whether such claim to base our related to the amount paid by the client for the affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or other limitations.  Relinquished Rv.	Treceived by Cardinal within 30 days after completion of the applicable loss of use, or loss of profits incurred by client, its subsidiaries, is based upon any of the above stated research combinations.
	Phone Result:  Yes No
Relinquished By:  Date: 1 Received By:	No
Delivered By: (Circle One)	
Sampler - UPS - Bus - Other:	(Mittals)
F	

Page 5 of 5

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





























