Closure Report

	Site Description							
Site Name:	Two Marks 36 State #4 SWD Battery							
Company:	Oxy Permian Ltd.							
Legal Description:	U/L M, Section 36, T21S, R24E							
County:	Eddy County, NM							
GPS Coordinates:	N 32.42960° W 104.45840°							

Release Data								
Date of Release:	06/24/2015 (Dump line leak) and 03/30/2015 (Talon leak)							
Type of Release:	Oil and produced water, Produced water							
Source of Release:	Line leak (both)							
Volume of Release:	0.5 bbl oil and 14.5 bbls water, 10 bbls water							
Volume Recovered:	0 bbls (both)							

	Remediation Specifications								
Remediation Parameters:	Dumpline-Excavate the spill area to a depth of 6 inches and backfill the site with clean soil. Talon leak- Per Oxy-Excavate the area around SP1 to a depth of 1 foot and backfill the site with clean soil.								
Remediation Activities:	11/17/2015 to 11/18/2015								

Plan Sent to OCD:	08/10/2015	Email from Cliff Brunson to Mike Bratcher
OCD Approval of Plan:	08/19/2015	Email from Mike Bratcher to Cliff Brunson
Plan Sent to BLM:	n/a	n/a
BLM Approval of Plan:	n/a	n/a

	Supporting Documentation								
Initial C-141	Signed 07/13/2015 and 04/28/2015								
Final C-141	Signed 11/20/2015 and 12/09/2015								
Site Diagram	July 2015 and May 2015								
Groundwater Plot	<50'								
TOPO Maps	July 2015								
Lab Summary	07/15/2015 and 04/29/2015								
Lab Analysis	07/15/2015 and 04/29/2015								
Correspondence	Request and approval of remediation plan via email								

Request for Closure

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

Cliff Brunson, President of BBC International Inc. 12/11/2015

<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 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Revised August 8, 2011

Attached

Form C-141

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

				S	anta F	e, NM 8/3	505				
			Rel	ease Notific	catio	n and Co	orrective A	ction			
						OPERA'	ГOR	⊠ Ini	tial Report	Г	Final Repor
Name of Co		Oxy Permia					Chancey Summe			<u> </u>	,
		ive, Midland				Telephone l		-5824			
Facility Na	me Two	Marks 36 S	tate #4 S	WD Battery		Facility Typ	e Battery				
Surface Ow	ner Stat	e		Mineral (Owner	r API No. 30-15-34833					
				LOCA	ATIO	N OF RE	LEASE				
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/West Line	County		
M 36 21S 24E								Eddy Cou	ntv N	JM	
	1			Latitudo N 20 A	120600	Lancitu	do W 104 4594	no	Ludy Cou	iity, i	171
			,	Latitude N 32.4		J	de <u>W 104.4584</u>	<u>u'</u>			
True of Dala	O'1	- 1 1 1		NAT	URE	OF REL		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	D 1	0.11	
Type of Rele	ase On a	nd produced v	/ater				Release 0.5 bbl roduced water	oil, Volume	Recovered	0 bb	ls
Source of Re	lease Lea	k in a 2.875"	steel oil d	ump line			lour of Occurrenc	e Date and	d Hour of Dis	cover	у
Was Immedia	ate Notice C		Yes 🗵	No 🔲 Not Re	equired	If YES, To Mike Brate	Whom? ther, Heather Patt	erson- NMOCD			
By Whom?	Kathy Pur	vis, BBC Inte	rnational			Date and I-		5 @ 11:17 am			
Was a Water	course Reac		Yes 🗵	l No		If YES, Vo	lume Impacting t	he Watercourse,			
TC - WI-t-	T										
If a Watercou	irse was imj	pacted, Descri	be rully.								
Describe Cau	se of Proble	m and Remed	lial Action	Taken.*							-
	0769 4 1 1	1	10.5111		c	1 1 .					~ **
A leak in a 2.		ump line spil.	.ed 0.5 bbl	oil and 14.5 bbls	of pro	duced water of	nto the ground. T	he line was repai	ed or replace	d and	no fluids
					•						
Describe Area	a Affected a	nd Cleanup A	ction Tak	en.*							
The affected a	area is appro	oximately 60'	x 60' on 1	ocation. Remedia	ation w	ill be complete	ed in accordance v	with a remediatio	n plan approv	ed by	NMOCD.
I hereby certi	fy that the in	nformation gi	zen above	is true and compl	lete to t	he best of my	knowledge and ur	nderstand that pur	suant to NM	OCD :	rules and
regulations al	l operators a	are required to	report an	d/or file certain re	elease n	otifications ar	nd perform correct	tive actions for re	leases which	may e	endanger
should their o	or me envir perations ha	onment. The ive failed to a	acceptanc dequately	e of a C-141 repo investigate and re	rı by ın emediat	e NMOCD ma e contaminatio	arked as "Final Re on that pose a thre	eport" does not re	neve the oper r surface wa	ator c ter hi	T Hability uman health
or the environ	iment. In ac	ldition, NMO	CD accept	tance of a C-141 i	report d	loes not relieve	e the operator of r	esponsibility for	compliance w	ith an	y other
federal, state,	or local law	s and √or regu	ations.				OTT GOTT				
Signature:			,				OIL CONS	SERVATION	DIVISIC	<u>N</u>	
Printed Name	: Chance	y Summers				Approved by	Environmental Sp	ecialist:			İ
Title: HES	Lead					Approval Date	e:	Expiration	Date:		
E-mail Addre	ss: <u>Chanc</u>	ey Summers	@oxy.con	<u>1</u>		Conditions of	Approval:				

Phone: (432) 685-5824

^{*} Attach Additional Sheets If Necessary

NM OIL CONSERVATION ARTESIA DISTRICT

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 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

APR 29 2015

Form C-141 Revised August 8, 2011

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

Submit 1 Copy to appropriate District Office in RECEIVED NMAC.

Release Notification and Corrective Action									
NAB 1512 156316	OF	'ERA'	TOR		Initi	al Report		Final Report	
Name of Company: OXY USA INC			hris Jones .					- I I I I I I I I I I I I I I I I I I I	
Address: 102 S. Main St. Carlsbad, NM 88220			No.: 575-628-41	21					
Facility Name: Two Marks 36 State #4 SWD	Faci	lity Typ	e: SWD						
Surface Owner: State Mineral Own	ier:				API No	o.: 30-015-	34833		
LOCAT	ION O	FREI	LEASE						
	orth/Soutl	h Line	Feet from the	East/\ East	West Line	County Eddy			
Latitude 32.43010		ıgitude				Eddy			
NATUI				<u>.</u>					
Type of Release: Produced Water			Release: 10 bbls			lecovered: 0			
Source of Release: 4" Steel Line Leak		te and H 30/2015	our of Occurrence	e	Date and 1 3/30/2015	Hour of Dis	covery		
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Require	If		Whom?						
By Whom?		e and H							
Was a Watercourse Reached?			lume Impacting th	ne Wate	rcourse.		-		
☐ Yes ☒ No	}								
If a Watercourse was Impacted, Describe Fully.*		•	tandan san santa san		· مند <u>ت: آ</u> ه ۱				
Describe Cause of Problem and Remedial Action Taken: A 4" steel sthe line. All fluids stayed on location.	salt water	dispos	al line caused a 1	0 barr	el release o	n location (ue to s	tress on	
Describe Area Affected and Cleanup Action Taken.* The impacted	area wa	s on loc	ation only measu	tring a	onravimata	Jv 60' v 80	Telo	n/I PF was	
Contracted to perform initial site assessment and soil sampling acti-	vities.								
I hereby certify that the information given above is true and complete tregulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remed or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	e notificat the NMC late conta	tions and CD mai mination	l perform correcti ked as "Final Rep n that nose a threa	ve action port" do	ons for relea ses not relie	uses which now the operation was the operation with	nay end tor of l	langer iability	
Chris Jones emailectiones@@eyahoo.com			OIL CONS	ERV.	ATION I	DIVISIO	1		
Osto:	Annrov	ed by F	nvironmental Spe	oialist:	4	0		1	
Printed Name: Chris Jones		va 0, 13	·····	Cidilot.	1111	PL			
Title: HES Specialist	Approv	al Date:	51115	> E	epiration Da	ite: N	f		
E-mail Address: ChristopherJones@oxy.com			pproval;			Attached	٦		
	emedi. UBMIT	ation p	oer O.C.D. Ru EDIATION P.F	iles &	Guidelir SAL NO	165	<u>i</u>		
Attach Additional Sheets If Necessary	ATER	THAN:	61115			00)D .	2077	

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
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1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

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

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

			Rel	ease Notifi	catio	on and C	orrective A	ction			-	
TV CC						OPERA	TOR		☐ Initi	al Report	\boxtimes	Final Repor
Name of Co		Oxy Permis		705			Dusty Wilson					
Facility Na	me Two	Marks 36 S	tate #4 S	WD Rattery		Telephone 1 Facility Type		5-5771				
Surface Ow						racinty Typ	e Battery					
Put race Ow	ner Siai	<u>.c</u>		Mineral (Owner				API No	. 30-15-3	4833	
	T	Y		LOCA	OITA	N OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North	/South Line	Feet from the	East/W	est Line	County	· · · · · · · · · · · · · · · · · · ·	
M	36	215							Eddy Cour	ALL NIN		
			T	Latitude N 32.4	20600	Langitu	d- W 104 4504	20		Ludy Cour	119, 1419	Д
			•	(SAMA-MILLION)			de <u>W 104.45840</u>	<u>) </u>				
Type of Relea	se Oil ar	id produced w	Inter	NAT	URE	OF RELI						
		5				Volume of	Release 0.5 bbl roduced water	oil,	Volume R	ecovered	0 bbls	
Source of Rel	ease Leal	k in a 2.875" s	steel oil du	imp line	***************************************	Date and H	our of Occurrence	9 1	Date and I	Hour of Disc	overv	
Was Immedia	te Notice G	iven?				06/24/2015 If YES, To			***************************************	-	,	
			Ycs 🛛	No 🔲 Not Re	quired	Mike Bratch	wnom? her, Heather Patte	rson- NN	4OCD			
By Whom?	Kathy Purv	is, BBC Inter	national			Date and Ho	our 06/25/2015	@ 11:17	am			-
Was a Waterco	ourse Reach		Yes 🛛	No	1,1	If YES, Vol	ume Impacting th	e Watero	ourse.			
If a Watercour	de tron Imm		DENCIE	110								
II a Watercour	ac was mip	acted, Descri	c rully."									
												J
Describe Cause	of Problem	n and Remedi	al Action	Taken.*	***************************************				***************************************	***************************************		
A leak in a 2.87	75" steel du	mp line spille	d 0 5 bbl c	oil and 14.5 bbts.	of namedo				12 2			1
were recovered		p ime opine	a 0.5 661 (on and 14.5 00ts (n broad	icea water ont	o the ground. The	e line wa	s repaired	or replaced	and no	fluids
Describe Area	Affected on	d Cleanup An	tion Tales									
		•										
The affected are of NMOCD via	ea is approx	imately 60' x	60' on loc	cation. Remediat	ion was	completed in	accordance with	a remedia	ation plan	approved by	Mike	Bratcher
I hereby certify	that the inf	ormation give	n above is	true and complet	e to the	best of my kn	nowledge and und	erstand t	hat pursua	nt to NMOC	D rule	s and
public health or	the environ	ment. The ac	centance o	of a C-141 renor	he the l	MACCO	perform correctiv	e actions	for releas	ses which ma	y enda	inger
should their ope	rations have	e failed to ade	quately in	vestigate and rem	ediate o	contamination	that pose a threat	ort" does	not reliev	e the operate	or of lie	ability
federal, state, or	ent. In add	ition, NMOCI	acceptan	ce of a C-141 rep	ort doe	s not relieve th	that pose a threat he operator of res	ponsibili	ty for com	pliance water	any of	ther
Journal State, Of	1 contains	9	uriis.	/	Т				-	•		-
Signature: //	1.1/	1		_			OIL CONSE	RVAI	TON D	IVISION		
Signature.	a y				\dashv .		• 0 400-0					and the same of th
Printed Name:	Dusty Wil	son			Ap	proved by En	vironmental Spec	ialist:				İ
Title: Environ	mental Adv	isor			A	menual D-4-		T	_		-	
					Ap	proval Date:		Expi	ration Dat	ic:		
E-mail Address:	1	/ilson@oxy.c	om		Co	nditions of Ap	proval:			Attach-d -	1	
Date: 11/20!	15	1	Phone: ((432) 685-5771					1	Attached	ı	
ttach Addition	al Sheets I						Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market Market					

District I
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State of New Mexico Energy Minerals and Natural Resources

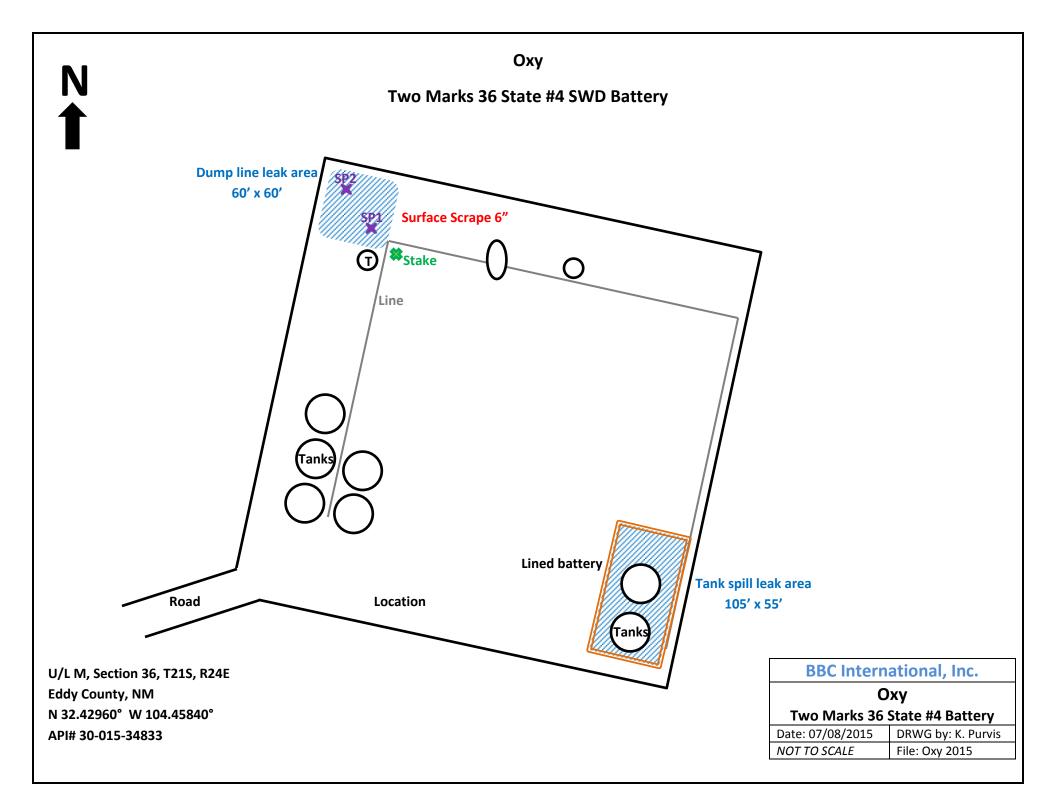
Form C-141
Revised August 8, 2011

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

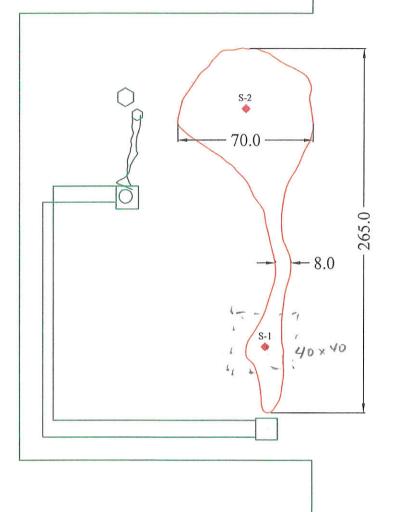
Release Notification and Corrective Action

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

			MU	case nounc	aw	m and Co	rrecuve A	cuon				
,	TTE (COT = 2 w/1 = 2 h		77774 // 01/ 01/ 01/ 01/ 01/ 01/ 01/ 01/ 01/			OPERA'	ГOR	[Initi	al Report	\boxtimes	Final Report
Name of Co		Oxy Permiai				Contact I	Ousty Wilson		**************************************			
		ive, Midland				Telephone No. (432) 685-5771						
Facility Nar	ne Two	Marks 36 St	ate #4 S	WD		Facility Typ	e SWD					
Surface Ow	ner Stat	е		Mineral O	wner				API No	. 30-15-34	4833	
				LOCA	TIO	N OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the		1/South Line	Feet from the	East/W	est Line	County		
0	36	218	24E							Eddy Cour	ntv NA	4
	Latitude N 32.43010° Longitude W 103.45402°											
			•			OF RELI		<u>6</u> _				
Type of Relea	ise Produ	iced water	74411468848884 GAL-44-	5 X K1F I	- / A %- II /		Release 10 bbls		Volume E	Recovered	0 bbls	
Source of Rel		teel line leak			ekokkon hakeataan ranna		our of Occurrence			Hour of Disc		w
317 W V						03/30/2015					-	
Was Immedia	ite Notice C		Yes 🛭	No Not Rec	quired	If YES, To	Whom?					
By Whom?						Date and H		6 @ 11:1	7 am	·····		
Was a Watero	ourse Reac	hed?	Yes 🏻	No		If YES, Vo	lume Impacting th	he Water	course.			- TAV
If a Watercou	rse was ime	himid										
na macicoa	iac was iiii	vacicu, Descii	oc runy.									
Describe Caus	se of Proble	m and Remed	ial Action	n Taken.*			***************************************		······			
A 4" steel salt	water dispo	sal line cause	da 10 bar	rel release on locat	tion di	ue to stress on	the line. All fluid	ls stayed	on locatio	ori.		
						·····				······································		- Miller Borthick Company Project company
Describe Area	Milected a	ind Cleanup A	ction 1ak	en.*								
The impacted	area was or	n location only	/ measurii	ng approximately 6	60' x 8	80'. Remediati	on was completed	d in accor	rdance wi	th the remed	iation p	olan.
I hereby certif	y that the in	oformation giv	en above	is true and comple	te to t	he best of my	knowledge and ur	iderstand	that purs	uant to NMO	OCD ru	les and
regulations all	operators a	are required to	report an	d/or file certain rel	ease n	otifications an	d perform correct	ive action	ns for rele	ases which	may en	dancer
should their or	or the envir Derations by	onment. The	acceptanc	e of a C-141 report investigate and ren	by th	e NMOCD ma	rked as "Final Re	port" do	es not reli	eve the oper	ator of	liability
or the environ	ment. In l ac	idition, NMO	cD accep	tance of a C-141 re	neorat eport d	le contaminant loes not relieve	on that pose a three	at to grot esnonsibi	una water Hity for ce	, surface wat ampliance w	ier, hun ith anv	nan health
federal, state,	or ickai kw	s and/or regul	ations.		4		- are apprented to the	coponaio	inty tor ce	riipiianee w	in any	Other
	$\Lambda \Lambda$						OIL CONS	SERVA	ATION	DIVISIO	N	
Signature:	124											
	V					Amengad by I	Environmental Sp	aalaliati				
Printed Name:	Casey s	ummers				Approved by	ciiviionmentai Sp	eciansi				
Title: NM E	nvironment	al Advisor				Approval Date	»;	Ex	epiration I	Date:		
E-mail Addres	is: casev	summers@o:	(V com			Conditions of			**************************************			
1/3	n i	~	.,			COMMUNICIES OF	Approvat.			Attached		
Date:	<u>4-15</u>		Phone:	(575)513-8289)	A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STA						
Attach Additi	onal Shee	ts If Necessa	rv									



Two morles









Date: 05/26/2015

Scale: NTS

Drawn By: TJS

Two Marks 36 State 04 Oxy - NM - North Eddy County, New Mexico Figure 1 - Site Plan



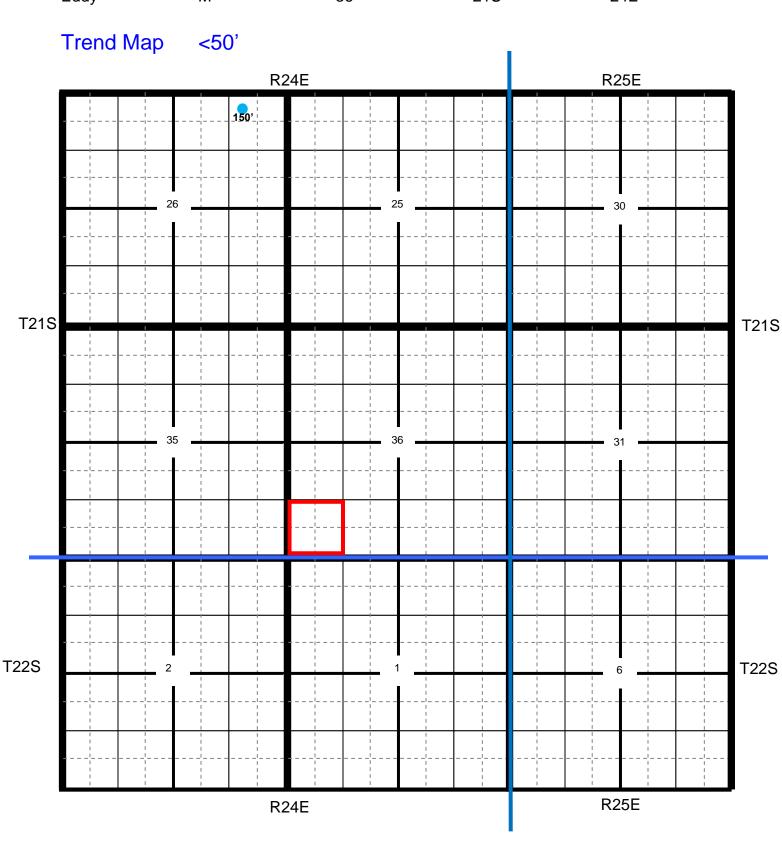
Location

OCD

Groundwater Plot

Oxy Two Marks 36 State #4 SWD Battery

CountyUnit LetterSectionTownshipRangeEddyM3621S24E



USGS

SEO

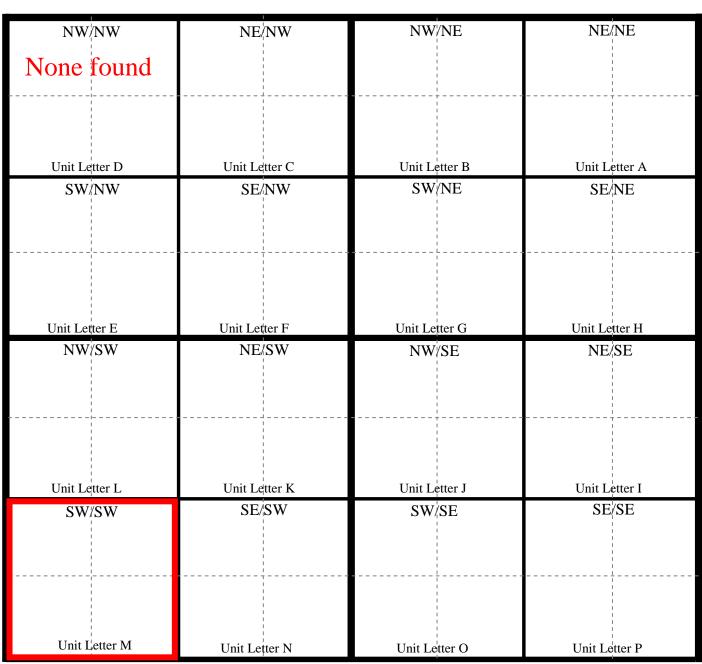
All Databases

Oxy Two Marks 36 State #4 SWD Battery

CountyUnit LetterSectionTownshipRangeEddyM3621S24E

Trend Map <50'

1



3

♣ Location
OCD

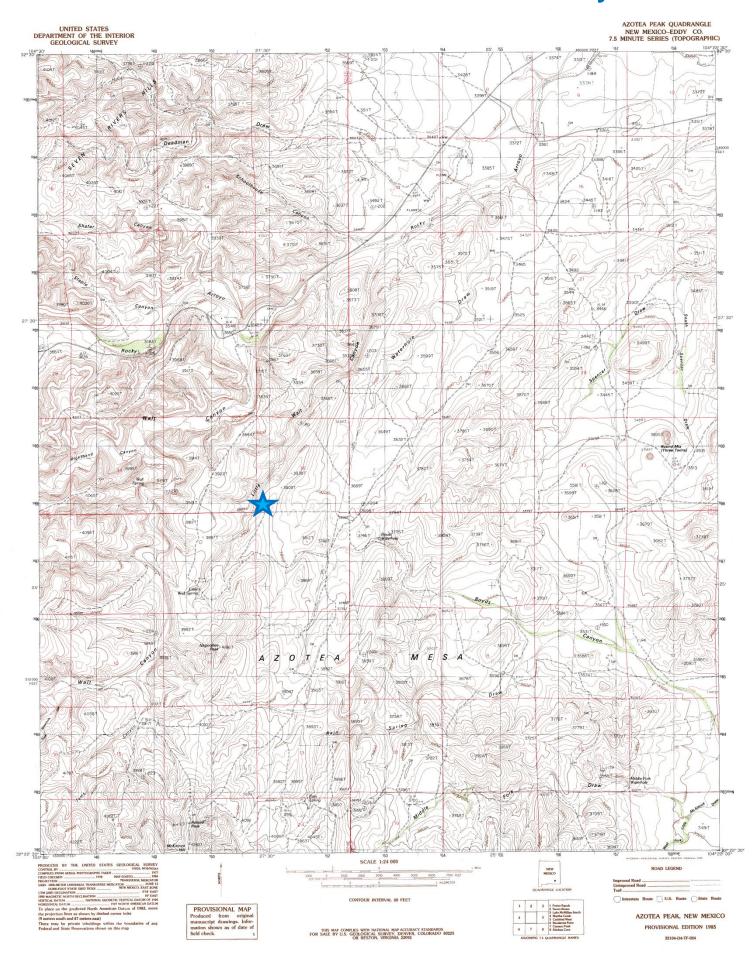
USGS

SEO

All Databases

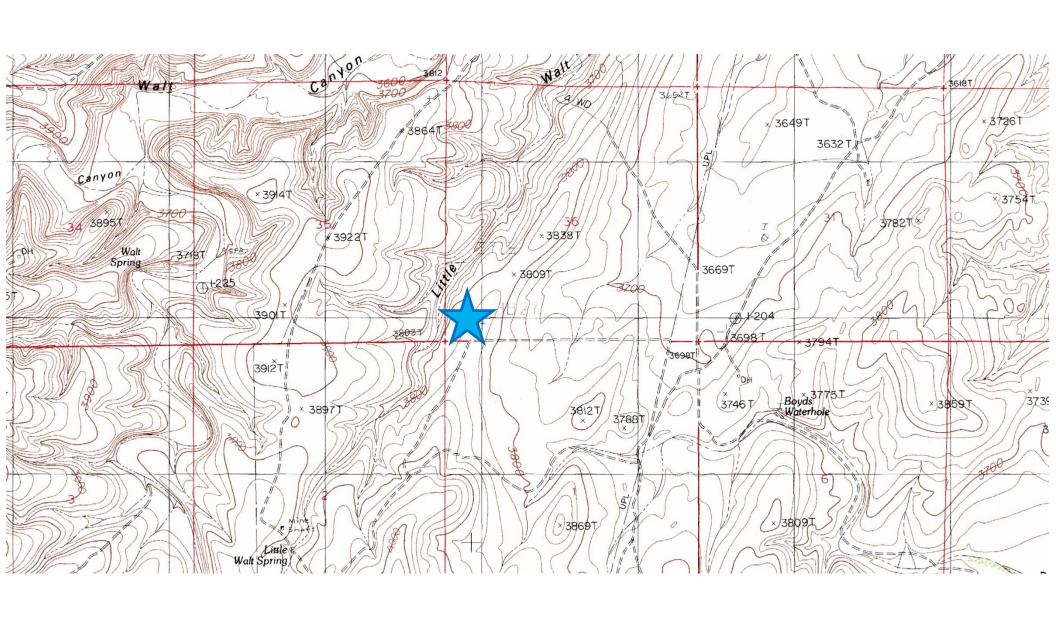
Oxy

Two Marks 36 State #4 SWD Battery



Оху

Two Marks 36 State #4 SWD Battery



Laboratory Analytical Results Summary Two Marks 36 State #4 SWD Battery, Dump Line

		Sample	SP1 @ SURFACE	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'
Analyte	Method	Date	7/15/15	7/15/15	7/15/15	7/15/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050
Toluene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050
Ethylbenzene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	< 0.150	< 0.150
Total BTEX	BTEX 8021B		< 0.300	< 0.300	< 0.300	< 0.300
Chloride	SM4500CI-B		896	128	320	320
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample	SP2 @ SURFACE	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'
Analyte	Method	Date	7/15/15	7/15/15	7/15/15	7/15/15
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050
Toluene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050
Ethylbenzene	BTEX 8021B		< 0.050	< 0.050	< 0.050	< 0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	< 0.150	< 0.150
Total BTEX	BTEX 8021B		< 0.300	< 0.300	< 0.300	< 0.300
Chloride	SM4500CI-B		1410	224	320	320
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

Incident Description

A 4-inch steel salt water disposal line failed causing a release of 10bbls of produced water. All of the fluid was contained on the location. Talon mobilized personnel to conduct a site assessment and perform soil sampling within the impacted area utilizing a backhoe. Due to the shallow soils and rockiness of this area, refusal was encountered with the backhoe at depths between 2-feet and 4-feet below ground surface. Laboratory results from the above referenced sampling activities are summarized in the table below.

Laboratory Results

See Appendix III for complete report of laboratory results.

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0	ND	5200	ND	ND
S-1	1	ND	256	ND	ND
S-1	1.5	ND	240	ND	ND
S-1 REFUSAL	2	ND	192	ND	ND
S-2	0	ND	272	ND	ND
S-2	1	ND	304	ND	ND
S-2	2	ND	224	ND	ND
S-2	3	ND	304	ND	ND
S-2 REFUSAL	4	ND	512	ND	ND

(ND) Analyte Not Detected

Based upon the site ranking of **0**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, and 5,000 mg/kg for TPH.



July 22, 2015

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: TWO MARKS 36 STATE #4 SWD BATTERY, DUMP LINE

Enclosed are the results of analyses for samples received by the laboratory on 07/16/15 11:00.

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

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

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

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: 07/16/2015 Sampling Date: 07/15/2015

Reported: 07/22/2015 Sampling Type: Soil

Project Name: TWO MARKS 36 STATE #4 SWD BATTER Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: EDDY COUNTY,NM

Sample ID: SP 1 @ SURFACE (H501824-01)

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	07/21/2015	ND	1.91	95.6	2.00	2.71	
Toluene*	< 0.050	0.050	07/21/2015	ND	1.90	94.9	2.00	2.58	
Ethylbenzene*	< 0.050	0.050	07/21/2015	ND	1.99	99.3	2.00	3.99	
Total Xylenes*	<0.150	0.150	07/21/2015	ND	5.20	86.7	6.00	3.71	
Total BTEX	<0.300	0.300	07/21/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 %	% 85.6-13	7						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	07/22/2015	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/18/2015	ND	183	91.3	200	5.04	
DRO >C10-C28	<10.0	10.0	07/18/2015	ND	189	94.6	200	7.58	
Surrogate: 1-Chlorooctane	75.7	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	62.3	% 52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 07/16/2015 Sampling Date: 07/15/2015

Reported: 07/22/2015 Sampling Type: Soil

Project Name: TWO MARKS 36 STATE #4 SWD BATTER Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Celey D. Keene

Project Location: EDDY COUNTY,NM

Sample ID: SP1 @ 1' (H501824-02)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2015	ND	1.91	95.6	2.00	2.71	
Toluene*	<0.050	0.050	07/21/2015	ND	1.90	94.9	2.00	2.58	
Ethylbenzene*	<0.050	0.050	07/21/2015	ND	1.99	99.3	2.00	3.99	
Total Xylenes*	<0.150	0.150	07/21/2015	ND	5.20	86.7	6.00	3.71	
Total BTEX	<0.300	0.300	07/21/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 85.6-13	7						
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	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/20/2015	ND	196	97.8	200	0.213	
DRO >C10-C28	<10.0	10.0	07/20/2015	ND	213	107	200	14.6	
Surrogate: 1-Chlorooctane	79.4	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	86.7	% 52 1-17	6						

Surrogate: 1-Chlorooctadecane 86.7 % 52.1-176

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 07/16/2015 Sampling Date: 07/15/2015

Reported: 07/22/2015 Sampling Type: Soil

Project Name: TWO MARKS 36 STATE #4 SWD BATTER Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: EDDY COUNTY,NM

Sample ID: SP 1 @ 2' (H501824-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2015	ND	1.91	95.6	2.00	2.71	
Toluene*	<0.050	0.050	07/21/2015	ND	1.90	94.9	2.00	2.58	
Ethylbenzene*	<0.050	0.050	07/21/2015	ND	1.99	99.3	2.00	3.99	
Total Xylenes*	<0.150	0.150	07/21/2015	ND	5.20	86.7	6.00	3.71	
Total BTEX	<0.300	0.300	07/21/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 %	% 85.6-13	7						
Chloride, SM4500Cl-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	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/20/2015	ND	196	97.8	200	0.213	
DRO >C10-C28	<10.0	10.0	07/20/2015	ND	213	107	200	14.6	
Surrogate: 1-Chlorooctane	74.4	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	80.9	% 52.1-17	6						

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 07/16/2015 Sampling Date: 07/15/2015

Reported: 07/22/2015 Sampling Type: Soil

Project Name: TWO MARKS 36 STATE #4 SWD BATTER Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: EDDY COUNTY,NM

Sample ID: SP 1 @ 3' (H501824-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2015	ND	1.91	95.6	2.00	2.71	
Toluene*	<0.050	0.050	07/21/2015	ND	1.90	94.9	2.00	2.58	
Ethylbenzene*	<0.050	0.050	07/21/2015	ND	1.99	99.3	2.00	3.99	
Total Xylenes*	<0.150	0.150	07/21/2015	ND	5.20	86.7	6.00	3.71	
Total BTEX	<0.300	0.300	07/21/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 85.6-13	7						
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	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/20/2015	ND	196	97.8	200	0.213	
DRO >C10-C28	<10.0	10.0	07/20/2015	ND	213	107	200	14.6	
Surrogate: 1-Chlorooctane	73.0	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	65.6	% 52 1-17	6						

Surrogate: 1-Chlorooctadecane 65.6 % 52.1-176

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 07/16/2015 Sampling Date: 07/15/2015

Reported: 07/22/2015 Sampling Type: Soil

Project Name: TWO MARKS 36 STATE #4 SWD BATTER Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: EDDY COUNTY,NM

Sample ID: SP 2 @ SURFACE (H501824-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2015	ND	1.91	95.6	2.00	2.71	
Toluene*	<0.050	0.050	07/21/2015	ND	1.90	94.9	2.00	2.58	
Ethylbenzene*	<0.050	0.050	07/21/2015	ND	1.99	99.3	2.00	3.99	
Total Xylenes*	<0.150	0.150	07/21/2015	ND	5.20	86.7	6.00	3.71	
Total BTEX	<0.300	0.300	07/21/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 %	% 85.6-13	7						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	07/22/2015	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/20/2015	ND	196	97.8	200	0.213	
DRO >C10-C28	<10.0	10.0	07/20/2015	ND	213	107	200	14.6	
Surrogate: 1-Chlorooctane	71.8	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	79.8	% 52.1-17	6						

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 07/16/2015 Sampling Date: 07/15/2015

Reported: 07/22/2015 Sampling Type: Soil

Project Name: TWO MARKS 36 STATE #4 SWD BATTER Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Celey D. Keene

Project Location: EDDY COUNTY,NM

Sample ID: SP2 @ 1' (H501824-06)

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	07/21/2015	ND	1.91	95.6	2.00	2.71	
Toluene*	<0.050	0.050	07/21/2015	ND	1.90	94.9	2.00	2.58	
Ethylbenzene*	<0.050	0.050	07/21/2015	ND	1.99	99.3	2.00	3.99	
Total Xylenes*	<0.150	0.150	07/21/2015	ND	5.20	86.7	6.00	3.71	
Total BTEX	<0.300	0.300	07/21/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 85.6-13	7						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	07/22/2015	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/20/2015	ND	196	97.8	200	0.213	
DRO >C10-C28	<10.0	10.0	07/20/2015	ND	213	107	200	14.6	
Surrogate: 1-Chlorooctane	70.9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	68 9	% 52 1-17	6						

52.1-176 Surrogate: 1-Chlorooctadecane 68.9 %

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 07/16/2015 Sampling Date: 07/15/2015

Reported: 07/22/2015 Sampling Type: Soil

Project Name: TWO MARKS 36 STATE #4 SWD BATTER Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: EDDY COUNTY,NM

Sample ID: SP2 @ 2' (H501824-07)

BTEX 8021B	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/21/2015	ND	1.91	95.6	2.00	2.71	
Toluene*	<0.050	0.050	07/21/2015	ND	1.90	94.9	2.00	2.58	
Ethylbenzene*	<0.050	0.050	07/21/2015	ND	1.99	99.3	2.00	3.99	
Total Xylenes*	<0.150	0.150	07/21/2015	ND	5.20	86.7	6.00	3.71	
Total BTEX	<0.300	0.300	07/21/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 85.6-13	7						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	ed 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	3.77	
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	07/20/2015	ND	196	97.8	200	0.213	
DRO >C10-C28	<10.0	10.0	07/20/2015	ND	213	107	200	14.6	
Surrogate: 1-Chlorooctane	72.8	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	68.0	% 52 1-17	6						

Surrogate: 1-Chlorooctadecane 68.0 % 52.1-176

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BBC International, Inc.

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

Fax To: (575) 397-0397

Received: 07/16/2015 Sampling Date: 07/15/2015

Reported: 07/22/2015 Sampling Type: Soil

Project Name: TWO MARKS 36 STATE #4 SWD BATTER Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Celey D. Keene

Project Location: EDDY COUNTY,NM

Sample ID: SP2 @ 3' (H501824-08)

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	07/21/2015	ND	1.91	95.6	2.00	2.71	
Toluene*	<0.050	0.050	07/21/2015	ND	1.90	94.9	2.00	2.58	
Ethylbenzene*	<0.050	0.050	07/21/2015	ND	1.99	99.3	2.00	3.99	
Total Xylenes*	<0.150	0.150	07/21/2015	ND	5.20	86.7	6.00	3.71	
Total BTEX	<0.300	0.300	07/21/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 %	6 85.6-13	7						
Chloride, SM4500Cl-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	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/20/2015	ND	196	97.8	200	0.213	
DRO >C10-C28	<10.0	10.0	07/20/2015	ND	213	107	200	14.6	
Surrogate: 1-Chlorooctane	73.1 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	77.8 9	% 52.1-17	6						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240	bs, NM 88240			
(505) 393-2326 FAX (505) 393-2476	05) 393-2476	PILL 760		ANALYSIS REQUEST
Company Name: BBC International, Inc.	Inc.	DO #:		
Project Manager: Cliff Brunson		P.O. #:		
Address: P.O. Box 805		Company:		
	State: NM Zip: 88241	Attn:		
5-397-6388 F	Fax #: 575-397-0397	Address:		
	0	City:		
Project #: Two Marks 36 State #	Two Marks 36 State #4 SWD Battery, Dump line	State: Zip:		
		Phone #:		
		1		
ď	MATRIX	PRESERV. SAMPLING	NG	
Lab I.D. Sample I.D.	RAB OR (C)OMP. ONTAINERS OUNDWATER STEWATER	HER: ID/BASE: E/COOL 'HER:	BTEX Cl TPH	
HS01824	GI W SG	A N	11:00 AM 🗸 🗸 🗸	
_	0-1	7/15/15	. <	
52 SP1 @ 2'	61	7/15/15		
_	6-	//15/15	TI:30 AMI V V V	
,	6-	//15/15		
0	0 -	//15/15		
_		7/15/15	\ \	
SP2 @ 3'	61	//15/15	4	
AISIR OPPI			the Basel for the	
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 me amount page of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the prop	It's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount year of years are usually exclusive remedy for any claim arising whether based in writing and received by Cardinal within 30 days after completion of the all years whatsoever shall be deed whether discusses and in writing and received by Cardinal within 30 days after completion of the all years whether the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the sta	tract or tort, shall be limited to the amount p g and received by Cardinal within 30 days al ons, loss of use, or loss of profits incurred b	ther completion of the applicable y client, its substances,	
affiliates or successors arising out of or related to the performance of Relinguished By:	of services hereunder by Cardinal, regardless of whether such of Date; / Kardinal, regardless of whether such of Received By:	aim is pased upon any of the above stated	Phone Result: Yes No	Add'l Phone #: Add'l Fax #:
M. K.	Time: (BO Received By:	MILL	REMARKS	
	Time:			
Delivered By: (Circle One)		of (Initials)		
Sampler - UPS - Bus - Other:	O.6 C Syes Byes	No CM		

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



May 07, 2015

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: TWO MARKS 36 STATE 4

Enclosed are the results of analyses for samples received by the laboratory on 04/30/15 11:15.

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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey 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



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:

04/30/2015

Reported:

05/07/2015

Project Name: Project Number:

Project Location:

TWO MARKS 36 STATE 4

70060843701

EDDY

Sampling Date:

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

04/29/2015

Sample ID: S - 1 0' (H501128-01)

BTEX 8021B	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2015	ND	2.03	101	2.00	5.73	
Toluene*	< 0.050	0.050	05/01/2015	ND	2.25	112	2.00	5.72	
Ethylbenzene*	< 0.050	0.050	05/01/2015	ND	2.05	103	2.00	5.17	
Total Xylenes*	<0.150	0.150	05/01/2015	ND	6.19	103	6.00	5.71	
Total BTEX	<0.300	0.300	05/01/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIC	108 %	6 61-154	SELECTION OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF T		95.5				
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5200	16.0	05/05/2015	ND	416	104	400	0.00	
TPH 8015M	mg/l	(g	Analyze	d By: CK	5.000.000				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/01/2015	ND	196	98.0	200	1.79	
DRO >C10-C28	<10.0	10.0	05/01/2015	ND	203	101	200	0.456	
Surrogate: 1-Chlorooctane	93.1%	6 47.2-157	,					***************************************	
Surrogate: 1-Chlorooctadecane	88.3 %	52.1-176	Ī						

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*=Accredited Analyte

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TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:

04/30/2015

Reported:

05/07/2015

Project Name:

TWO MARKS 36 STATE 4

Project Number: Project Location: 70060843701

EDDY

Sampling Date:

04/29/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S - 1 1' (H501128-02)

BTEX 8021B	mg/	kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2015	ND	1.96	98.2	2.00	3.34	
Toluene*	< 0.050	0.050	05/04/2015	ND	1.77	88.5	2.00	3.77	
Ethylbenzene*	< 0.050	0.050	05/04/2015	ND	1.69	84.5	2.00	4.85	
Total Xylenes*	< 0.150	0.150	05/04/2015	ND	5.59	93.2	6.00	5.02	
Total BTEX	<0.300	0.300	05/04/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107 %	6 61-154	-						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	05/05/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	кg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/02/2015	ND	196	98.0	200	1.79	
DRO >C10-C28	<10.0	10.0	05/02/2015	ND	203	101	200	0.456	
Surrogate: 1-Chlorooctane	96.1 %	6 47.2-157	,			***************************************			
Surrogate: 1-Chlorooctadecane	93.19	52.1-176							

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*=Accredited Analyte

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TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:

04/30/2015

Reported:

05/07/2015

Project Name:

TWO MARKS 36 STATE 4

Project Number: Project Location: 70060843701

EDDY

Sampling Date:

Sampling Type:

04/29/2015 Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S - 1 1.5 ' (H501128-03)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2015	ND	1.96	98.2	2.00	3.34	
Toluene*	<0.050	0.050	05/04/2015	ND	1.77	88.5	2.00	3.77	
Ethylbenzene*	< 0.050	0.050	05/04/2015	ND	1.69	84.5	2.00	4.85	
Total Xylenes*	<0.150	0.150	05/04/2015	ND	5.59	93.2	6.00	5.02	
Total BTEX	<0.300	0.300	05/04/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 %	61-154				***************************************	197000000000000000000000000000000000000		
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP			NAME OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OWNER.		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/05/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/04/2015	ND	197	98.4	200	0.528	
DRO >C10-C28	<10.0	10.0	05/04/2015	ND	203	102	200	1.44	
Surrogate: 1-Chlorooctane	91.8 %	6 47.2-157	<u> </u>						
Surrogate: 1-Chlorooctadecane	88.2 %	6 52.1-176							

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TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:

04/30/2015

Reported:

05/07/2015

Project Name:

TWO MARKS 36 STATE 4

Project Number:

70060843701

Project Location: E

EDDY

Sampling Date:

Sampling Type:

04/29/2015

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S - 1 2' REFUSAL (R) (H501128-04)

BTEX 8021B	mg/	kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2015	ND	1.96	98.2	2.00	3.34	
Toluene*	< 0.050	0.050	05/04/2015	ND	1.77	88.5	2.00	3.77	
Ethylbenzene*	<0.050	0.050	05/04/2015	ND	1.69	84.5	2.00	4.85	
Total Xylenes*	<0.150	0.150	05/04/2015	ND	5.59	93.2	6.00	5.02	
Total BTEX	<0.300	0.300	05/04/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIE	109 %	6 61-154							
Chloride, SM4500CI-B	mg/l	кg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/05/2015	ND	416	104	400	0.00	
TPH 8015M	mg/l	(g	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/04/2015	ND	197	98.4	200	0.528	
DRO >C10-C28	<10.0	10.0	05/04/2015	ND	203	102	200	1.44	
Surrogate: 1-Chlorooctane	86.2 %	6 47.2-157							
Surrogate: 1-Chlorooctadecane	82.9 %	52.1-176							

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*=Accredited Analyte

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Celley D. Keine

Celey D. Keene, Lab Director/Quality Manager



TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:

04/30/2015

Reported:

05/07/2015

Project Name:

TWO MARKS 36 STATE 4

Project Number:

70060843701

Project Location:

EDDY

Sampling Date:

04/29/2015

Soil

Sampling Type: Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S - 2 0' (H501128-05)

BTEX 8021B	mg,	kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2015	ND	1.96	98.2	2.00	3.34	
Toluene*	<0.050	0.050	05/04/2015	ND	1.77	88.5	2.00	3.77	
Ethylbenzene*	<0.050	0.050	05/04/2015	ND	1.69	84.5	2.00	4.85	
Total Xylenes*	<0.150	0.150	05/04/2015	ND	5.59	93.2	6.00	5.02	
Total BTEX	<0.300	0.300	05/04/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIC	109 9	6 61-154				11/10/10/10/10/10/10/10/10/10/10/10/10/1			
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	05/05/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/04/2015	ND	197	98.4	200	0.528	
DRO >C10-C28	<10.0	10.0	05/04/2015	ND	203	102	200	1.44	
Surrogate: 1-Chlorooctane	89.9 %	6 47.2-157	7						
Surrogate: 1-Chlorooctadecane	85.5 %	6 52.1-170	í						

Cardinal Laboratories

*=Accredited Analyte

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Celey & Keene



TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:

04/30/2015

Reported:

05/07/2015

Project Name:

TWO MARKS 36 STATE 4

Project Number: Project Location: 70060843701

EDDY

Sampling Date:

04/29/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S - 2 1' (H501128-06)

BTEX 8021B	mg,	'kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2015	ND	1.96	98.2	2.00	3.34	
Toluene*	<0.050	0.050	05/05/2015	ND	1.77	88.5	2.00	3.77	
Ethylbenzene*	<0.050	0.050	05/05/2015	ND	1.69	84.5	2.00	4.85	
Total Xylenes*	<0.150	0.150	05/05/2015	ND	5.59	93.2	6.00	5.02	
Total BTEX	<0.300	0.300	05/05/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109 9	61-154	***************************************					***************************************	
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	05/05/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/04/2015	ND	197	98.4	200	0.528	
DRO >C10-C28	<10.0	10.0	05/04/2015	ND	203	102	200	1.44	
Surrogate: 1-Chlorooctane	86.9 %	6 47.2-157	7						
Surrogate: 1-Chlorooctadecane	80.3 9	6 52.1-176	í						

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keene



TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:

04/30/2015

Reported:

05/07/2015

Project Name:

TWO MARKS 36 STATE 4

Project Number:

70060843701

Project Location:

EDDY

Sampling Date:

04/29/2015

Sampling Type: Sampling Condition: Soil

Sample Received By:

Cool & Intact

Jodi Henson

Sample ID: S - 2 2 '(H501128-07)

BTEX 8021B	mg/	kg	Analyze	ed By: CK	****				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/05/2015	ND	1.96	98.2	2.00	3.34	
Toluene*	<0.050	0.050	05/05/2015	ND	1.77	88.5	2.00	3.77	
Ethylbenzene*	<0.050	0.050	05/05/2015	ND	1.69	84.5	2.00	4.85	
Total Xylenes*	<0.150	0.150	05/05/2015	ND	5.59	93.2	6.00	5.02	
Total BTEX	<0.300	0.300	05/05/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 %	61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/05/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/04/2015	ND	197	98.4	200	0.528	
DRO >C10-C28	<10.0	10.0	05/04/2015	ND	203	102	200	1.44	
Surrogate: 1-Chlorooctane	93.4 9	6 47.2-157	,		***************************************				
Surrogate: 1-Chlorooctadecane	86.79	6 52.1-176							

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:

04/30/2015

Reported:

05/07/2015

Project Name:

TWO MARKS 36 STATE 4

Project Number: Project Location:

70060843701

EDDY

Sampling Date:

04/29/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S - 2 3'(H501128-08)

BTEX 8021B	mg/	kg	Analyza	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	05/05/2015	ND	1.90	95.2	2.00	0.220	
Toluene*	< 0.050	0.050	05/05/2015	ND	1.71	85.6	2.00	0.421	
Ethylbenzene*	< 0.050	0.050	05/05/2015	ND	1.64	82.0	2.00	2.17	
Total Xylenes*	<0.150	0.150	05/05/2015	ND	5.39	89.8	6.00	2.17	
Total BTEX	<0.300	0.300	05/05/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109 %	61-154							
Chloride, SM4500CI-B	mg/l	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	05/05/2015	ND	416	104	400	0.00	
TPH 8015M	mg/l	(g	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/04/2015	ND	197	98.4	200	0.528	
DRO >C10-C28	<10.0	10.0	05/04/2015	ND	203	102	200	1.44	
Surrogate: 1-Chlorooctane	93.7 %	6 47.2-157	7						
Surrogate: 1-Chlorooctadecane	88.3 %	52.1-176	í						

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*=Accredited Analyte

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:

04/30/2015

Reported:

05/07/2015

Project Name:

TWO MARKS 36 STATE 4

Project Number: Project Location: 70060843701

EDDY

Sampling Date:

Sampling Type:

04/29/2015 Soil

Sampling Condition:

Cool & Intact

Jodi Henson

Sample Received By:

Sample ID: S - 2 4 ' REFUSAL (R) (H501128-09)

BTEX 8021B	mg/	kg	Analyz	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	05/05/2015	ND	1.90	95.2	2.00	0.220	
Toluene*	<0.050	0.050	05/05/2015	ND	1.71	85.6	2.00	0.421	
Ethylbenzene*	<0.050	0.050	05/05/2015	ND	1.64	82.0	2.00	2.17	
Total Xylenes*	<0.150	0.150	05/05/2015	ND	5.39	89.8	6.00	2.17	
Total BTEX	<0.300	0.300	05/05/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 %	6 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	05/05/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/04/2015	ND	197	98.4	200	0.528	
DRO >C10-C28	<10.0	10.0	05/04/2015	ND	203	102	200	1.44	
Surrogate: 1-Chlorooctane	87.7 %	6 47.2-157	1						
Surrogate: 1-Chlorooctadecane	82.5 %	6 52.1-176	FI .						

Cardinal Laboratories

*=Accredited Analyte

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

Chloride by SM4500CI-B does not require samples be received at or below 6°C

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

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Keens



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Company Name: Talon II DE

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Project Manager:	" K) Adkins		P.O. #:					T
Address: 408	Address: 408 W. Texas Ave.		Company:	OKH				
city: Artesia		State: NM Zip: 88210	Attn: Ohvo	10.700				
Phone #: 575-746-8768	-746-8768 Fax #: 575-746-8905	746-8905	Address:	1				
Project #: 700	Project #: 700 608 4 3 7 01 Project Owner: C 2 J	うんじ	City:			, .		
Project Name:	ks 3C	0	State:	Zin:				
Project Location: Eddly			Phone #:					
Sampler Name:	(5) Bacza		Fax#:			1		
FOR LAB USE ONLY		MATRIX	PRESERV.	SAMPLING		1		
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Lab I.D.	Sample I.D.	awan awan atawe	OOL.			<u>ا</u>		
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PLESE (OTE: Labily and Danages, Cardna's lability and clients enclusive remay for any dain aradig whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All climits including those for neglegones and any other cause whatever shall be deemed valved unless made in writing and received by Cardinal within 30 days after completion or the applicable are event what Cardinal be labele for including completion or the applicable affilted or automated in the adversary of the completion of the applicable affilted or automated whether the contraction of the applicable affilted or automated whether the contraction of the applicable affilted or automated whether the contraction of the applicable affilted or automated whether the contraction of the applicable affilted or automated and the applicable affilted or automated and the applicable affilted or automated whether the contraction of the applicable and a profits in the contraction of the applicable and a profit and a profits and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a profit and a

Wost 0 P5628 75 65 Tusk 01040502 Project 1124429 clomont 2019 CHECKED BY: Sample Condition
Cogl Intact
Yes Yes

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326. #ff

5.400

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

Kathy Purvis

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

Sent: Wednesday, August 19, 2015 3:59 PM **To:** Cliff Brunson; Patterson, Heather, EMNRD

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

Subject: RE: OXY Two Marks 36 State #4 SWD Battery - Remediation Plan

RE: OXY USA * Two Marks 36 St 4 SWD * 30-015-34833 * M-36-21s-24e

2RP-3122 * Date of release: 6/24/15

2RP-3125 * Date of release: 6/24/15 (in Battery)

Cliff,

Your proposal for remediation of the above referenced release is approved. Please submit a C-141 Final Report for each RP number upon completion of remedial activities.

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

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

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

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

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

Sent: Monday, August 10, 2015 7:33 PM

To: Bratcher, Mike, EMNRD; Patterson, Heather, EMNRD **Cc:** C J Summers; Ken Swinney; Jennifer Gilkey; Kathy Purvis

Subject: OXY Two Marks 36 State #4 SWD Battery - Remediation Plan

Mike,

This e-mail is to confirm our discussion on Wednesday, July 29, 2015 concerning the remediation plan for the Oxy Two Marks 36 State #4 SWD Battery. I have attached the information packet that we used in our discussion with a cover page describing the remediation plan that we agreed upon.

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

Thanks, Cliff

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

Fax: (575) 397-0397 E-Mail: cbrunson@bbcinternational.com

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May 14, 2015

Ms. Heather Patterson NMOCD District 2

AMARILLO 92I North Bivins Amarillo. Texas 79107 Phone 806.467.0607 Fax 806.467.0622 811 S. 1st Street Artesia, NM 88210

Subject:

Soil Assessment and Remediation Work Plan

Oxy USA, INC

Two Marks 36 State #004 SWD

30-015-34833 2RP-2977

ARTESIA 408 West Texas Ave. Artesia, New Mexico 88210 Phone 575.746.8768 Fax 575.746.8905

Dear Ms. Patterson

HOBBS 318 East Taylor Street Hobbs, New Mexico 88240 Phone 575.393.4261 Fax 575.393.4658

Oxy USA, INC (Oxy) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities consist of the following.

Background Information

MIDLAND 290I State Hwy 349 Midland, Texas 79706 Phone 432.522.2133 Fax 432.522.2180

The Two Marks 36 St. #004 SWD is located approximately thirty-three (33) miles southeast of Artesia, New Mexico. The legal location for this location is Unit Letter O, Section 36, Township 21 South, and Range 24 East in Eddy County, New Mexico. More specifically the latitude and longitude for this release are 32.430102 North and -103.454029 West. A site plan is presented in Appendix I.

OKLAHOMA CITY 7700 North Hudson Avenue Suite IO Oklahoma City, Oklahoma 73II6 Phone 405.486,7030 Fax 806,467,0622

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Ector extremely rocky loam with 9 to 25 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is comprised of the Seven Rivers formation consisting of gypsum, anhydrite, salt, dolomite, and siltstone. Drainage courses in this area are normally dry. Ground water in the project vicinity is approximately 28-feet below ground surface (bgs), according to the New Mexico Office of the State Engineer. The referenced groundwater data is presented in Appendix II.

SAN ANTONIO 13111 Lookout Way San Antonio, Texas 78233 Phone 210.265.8025 Fax 210.568.2191

The ranking for this site is **20** Based on the following:

Depth to ground water

<50°

Wellhead Protection Area

>1000'

Distance to surface water body

>1000°

ENVIRONMENTAL CONSULTING
ENGINEERING
DRILLING
CONSTRUCTION
SPILL MANAGEMENT
GENERAL CONTRACTING

Toll Free: 866.742.0742 www.talonlpe.com

Incident Description

A 4-inch steel salt water disposal line failed causing a release of 10bbls of produced water. All of the fluid was contained on the location. Talon mobilized personnel to conduct a site assessment and perform soil sampling within the impacted area utilizing a backhoe. Due to the shallow soils and rockiness of this area, refusal was encountered with the backhoe at depths between 2-feet and 4-feet below ground surface. Laboratory results from the above referenced sampling activities are summarized in the table below.

Laboratory Results

See Appendix III for complete report of laboratory results.

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0	ND	5200	ND	ND
S-1	1	ND	256	ND	ND
S-1	1.5	ND	240	ND	ND
S-1 REFUSAL	2	ND	192	ND	ND
S-2	0	ND	272	ND	ND
S-2	1	ND	304	ND	ND
S-2	2	ND	224	ND	ND
S-2	3	ND	304	ND	ND
S-2 REFUSAL	4	ND	512	ND	ND

(ND) Analyte Not Detected

Based upon the site ranking of 0, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, and 5,000 mg/kg for TPH.

Proposed Remedial Actions

- The impacted area in the vicinity of sample location S-1 will be excavated to a depth of 1-feet bgs.
- All of the excavated material will be hauled to an NMOCD approved solid waste disposal facility.
- The excavation will be backfilled with caliche and contoured to match the surrounding terrain.

Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768

Respectfully submitted,

TALON/LPE

Sheldon L. Hitchcock

Project Manager

David J. Adkins District Manager