RECEIVED

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
Ct IV
S. St. Francis Dr., Santa Fe, NM 87505

* Attach Additional Sheets If Necessary

State of New Mexico Energy Minerals and Natural Resources MAY 18 2009

HOBBSOCD

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

Revised October 10, 2003

Form C-141

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

			Rele	ase Notific	ation	and Co	rrective A	ction			_	-
						OPERA	ГOR		☐ Initia	al Report		Final Report
Name of Co	mpany – (OXY USA			(Contact - K	elton Beaird					
		88 / 102 Sou	ıth Main	St Carlsbad, 1	NM 7	Telephone N	No. – 575-887-8	337				
Facility Nan	ne – Todd	Lower San A	Andres #3	358			e – Flowline		API			
Surface Own	ner – State	······································		Mineral O)wner –	State				Vo. – 30-04	11-104	72
						OF REI	LEASE	······································	-, h			
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/V	Vest Line	County		
H	35	7S	35E	1980'		FNL	660']	FEL	Roosevelt	t	·
			Latit	ude 33° 40° 20.	.29"W	Longitude	103° 18' 47.08	" W		I	,	
						OF REL	_					
Type of Rele	ase – Produ	iced Water/Cri	ıde Oil				Release - 200/60	bbls	Volume F	Recovered -	- 25 bbl	is
Source of Re	lease - Flor	wline			***	Date and I	Hour of Occurrence	e –	Date and	Hour of Di	scovery	<i>i</i> –
Was Immedi	ate Notice (Yes [No Not Re	equired	If YES, To Eric Nelso	Whom? n – NM State Lan	d Office	•			
By Whom? -	- Rick Kerb	V				Date and H	Hour					
Was a Water		ched?		_		If YES, Vo	olume Impacting t	he Wate	ercourse.			
			Yes 🗵] No								
If a Watercou	urse was Im	pacted, Descr	ibe Fully.	*								
	•											
				-								
				n Taken.* Spill								
Groundwater	r in the area	is 109.03' usi	ng a moni	itor well that was	set at the	e site. A verti	cal and horizontal	delinea	tion was co	ompleted to	NMO	CD Standards.
				ken.* The impacte								
				il poly liner then a				Clean n	ative soil w	vas then bac	kfilled	into the
excavation a	na contoure	ed to the surrou	inding are	ea. The site was s	eeded wi	ith BLM See	d Mixture #2.					
							•					
I haraby cart	ify that the	information a	iven abov	e is true and comp	alete to th	he heet of my	knowledge and w	nderete:	nd that pur	mont to MA	MOCD.	mulas and
				nd/or file certain i								
public health	or the envi	ironment. The	acceptan	ce of a C-141 repo	ort by the	e NMOCD n	narked as "Final R	eport" o	loes not rel	ieve the op	erator c	of liability
				y investigate and i								
		addition, NMC iws and/or regi		ptance of a C-141	report d	oes not reliev	ve the operator of	respons	ibility for c	compliance	with an	y other
icuciai, state	, or local la	iws allowor regi	nations.	2	$\overline{}$		OIL CON	CEDA	ATION	DIVICI	ONI	
		///		$\triangle \cdot \triangle$			OIL COR	STATE OF	VA BION	DIVIDI	<u>UIN</u>	
Signature:		M							1	درجهمي بيدد		
Printed Nam	e: Kelton B	Seaird				Approved by	District Supply	ONIM	ENTAL E	NGINEE	R	
Title: HES S	specialist			· · · · · · · · · · · · · · · · · · ·		Approval Da	te: 05 19 09		Expiration	Date:		·
E-mail Addr	ess: kelton	beaird@oxy.c	com			Conditions o	f Approval:			A	.	
Pate 5-4-09)		Phor	ne: 575-887-8337						ROT	ս ⊔ ∧գ <i>.</i> գ	2152)

Closure Report

Prepared for Oxy USA

RECEIVED

MAY 1 & 2009

HOBBSOCD

Todd Lower San Andres #8 Flowline Leak Roosevelt County, NM

1RP-09-4-2152

Prepared by

Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768 Phone (432) 366-0043 Fax (432) 366-0884

Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768 Phone (432) 366-0043 Fax (432) 366-0884

May 4, 2009

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MAY 1 8 2009 HOBBSOCD

New Mexico Oil Conservation Division Mr. Larry Johnson 1625 N French Drive Hobbs, New Mexico 88240

Re: Closure Report for Oxy USA – Todd Lower San Andres #8 Leak UL 'H' Sec. 35 T7S R35E Roosevelt County 1RP-09-4-2152

Mr. Larry Johnson,

Elke Environmental was contracted by Oxy USA to complete the remediation of the impacted soil at the Todd Lower San Andres #8 Flowline Leak. Vertical and horizontal delineation of the site was started with a backhoe and completed using an air rotary rig. The ranking criteria for this site is as follows: Surface Body of Water -0 points; Wellhead Protection Area -0 points; Groundwater Depth -0 points (GW = 109'). The total ranking for the site is 0 points. Attached is a plat map, driller's logs, field analytical and lab confirmation for the site.

A monitor well was set at the site to prove groundwater conditions. During the drilling of the borehole no signs of a water bearing zone were present. The borehole was left open for 72 hrs and an interface probe was used to show groundwater at 126' bgs. Seven days after the borehole was drilled a monitor well was set. The initial borehole was drilled to 150' bgs, after 7 days the borehole collapsed and Total Depth was 114' bgs. After setting the monitor well a groundwater reading was taken a 112' bgs. During the development, the well dried up. A water reading was taken every 15 minutes until an estimated yield was determined. The estimated yield was determined to be 0.4 Gallons per Day. The groundwater was sampled for TDS and returned a result of 516 mg/L. NMAC 19.15.1.19, Section B, Subsection 2 states "Ground-water pollution at any place of withdrawal for present or reasonably foreseeable future use, where the TDS concentration is 10,000 mg/L or less, shall be abated". With only 0.4 GPD recharge rate, Oxy USA feels that the yield from that water zone is to low for any foreseeable future use and proposes the following remediation plan.

As per the approved workplan 4' of impacted soil was excavated and hauled to Gandy Marley Disposal. A 20 mil poly liner was installed at 4' bgs with 4 oz geo-textile liner above and below the poly liner. Clean native soil was backfilled and contoured to the surrounding area. The site was seeded with BLM Seed Mixture #2. Enclosed is the final report of the remediation project. If you have any questions about the enclosed report please contact me at the office.

Logan Anderson

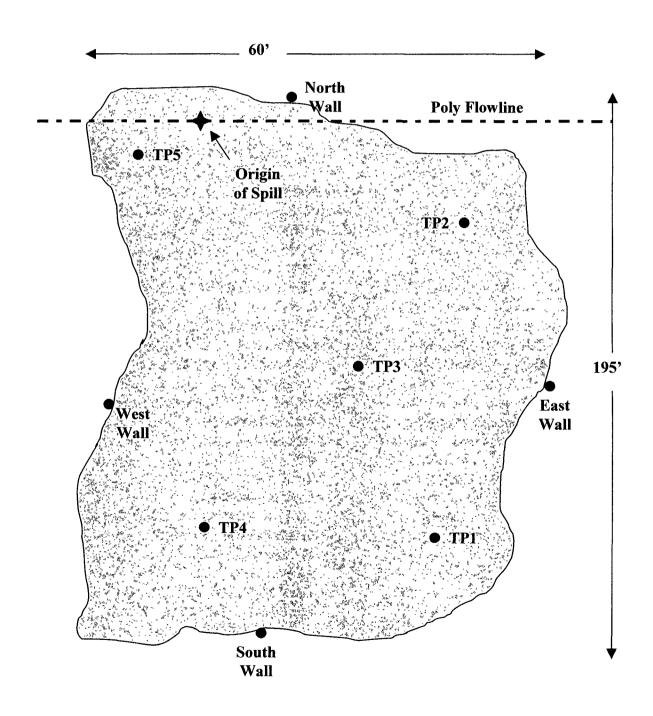
Sincerely

Oxy USA

Todd Lower San Andres #8 Flowline Leak

UL 'H' Sec. 35 T7S R35E Roosevelt County, NM

Plat Map



Elke Environmental, Inc. P.O. Box 14167 Odessa, TX 79768

Field Analytical Report Form

Client_	Oxy USA				Analyst _	Curtis Ela	m/Logan Anderson
Site	Todd Lower	San Andr	es #8 Flo	wline Leak			
Sai	nple ID	Date	Depth	TPH / PPM	Cl/PPM	PID / PPM	GPS
	TP1	12-24-08	Surface	60,800	993		33° 40.272' N
	TP1	12-24-08	2'	30,400	2,038		103° 18.826' W 33° 40.272' N
	TP1	1-19-09	3'	1,490	2,350		103° 18.826' W 33° 40.272' N
			 		-		103° 18.826' W 33° 40.272' N
	TP1	1-19-09	5'	67	894		103° 18.826' W
	TP1	1-19-09	7'		823		33° 40.272' N 103° 18.826' W
	TP1	1-20-09	9'		732	***	33° 40.272' N 103° 18.826' W
	TP1	1-20-09	12'	33	657		33° 40.272' N
							103° 18.826' W 33° 40.272' N
	TP1	2-10-09	15'		2,149		103° 18.826' W
	TP1	2-10-09	20'		259		33° 40.272' N 103° 18.826' W
	TP1	2-10-09	25'		139	0.0	33° 40.272' N 103° 18.826' W
	TP2	12-24-08	Surface	50,900	1,780		33° 40.284' N 103° 18.812' W
	TP2	12-24-08	2'	23,800	1,591		33° 40.284' N
	TP2	1-19-09	3'	3,830	6,235		103° 18.812' W 33° 40.284' N
	TP2	1-19-09	5'	45	7,105		103° 18.812' W 33° 40.284' N
	TP2	1-19-09	7'		6,821		103° 18.812' W 33° 40.284' N
			-		0,021		103° 18.812' W
	TP2	1-20-09	9'		7,651		33° 40.284' N 103° 18.812' W
	TP2	1-20-09	12'	56	7,824		33° 40.284' N 103° 18.812' W

Analyst Notes

Elke Environmental, Inc. P.O. Box 14167 Odessa, TX 79768

Field Analytical Report Form

Client	Oxy USA				Analyst	Curtis Ela	am/Logan Anderson
Site	Todd Lower	· San Andr	es #8 Flo		Anaryst _		
Sa	mple ID	Date	Depth	TPH / PPM	Cl / PPM	PID / PPM	GPS
	TP2	2-10-09	15'		1,965		33° 40.284' N
							103° 18.812' W 33° 40.284' N
	TP2	2-10-09	20'	•	4,220		103° 18.812' W
	TDO	2 10 00	252		4.752		33° 40.284' N
	TP2	2-10-09	25'	· · · · · · · · · · · · · · · · · · ·	4,752		103° 18.812' W
	TP2	2-10-09	30'		3,959		33° 40.284' N
							103° 18.812' W
	TP2	2-10-09	35'		3,457		33° 40.284' N 103° 18.812' W
				<u> </u>			33° 40.284' N
	TP2	2-10-09	40'		2,762		103° 18.812' W
	TP2	2-10-09	45'		3,306		33° 40.284' N
		2-10-07	75		3,500		103° 18.812' W
	TP2	2-10-09	50'		4,021		33° 40.284' N
	·						103° 18.812' W 33° 40.284' N
	TP2	2-10-09	55'		5,359		103° 18.812' W
	TD0	2 10 00	(0)		1.750		33° 40.284' N
	TP2	2-10-09	60'		1,750		103° 18.812' W
	TP2	2-10-09	65'		282		33° 40.284' N
		2 10 07	03		202		103° 18.812' W
	TP2	2-10-09	70'		160	0.0	33° 40.284' N
					-		103° 18.812' W 33° 40.283' N
	TP3	12-24-08	Surface	55,100	866		103° 18.817' W
	TP3	12-24-08	2'	27,700	1,284		33° 40.283' N
		12-24-00		27,700	1,204		103° 18.817' W
	TP3	1-19-09	3'	4,880	7,811		33° 40.283' N
					 		103° 18.817' W 33° 40.283' N
	TP3	1-19-09	5'	89	7,701		33 40.283 N 103° 18.817' W
<u> </u>	TD2	1 10 00	7,		7.505		33° 40.283' N
	TP3	1-19-09	7'		7,535		103° 18.817' W

103° 18.817' W

Analyst Notes

Elke Environmental, Inc. P.O. Box 14167 Odessa, TX 79768

Field Analytical Report Form

Client Oxy USA			·	Analyst _	Curtis Elar	n/Logan Anderson
Site Todd Lower	San Andr	es #8 Flo	owline Leak			
			~~~			
Sample ID	Date	Depth	TPH / PPM	CI / PPM	PID / PPM	GPS
TP3	1-19-09	9'		7,202		33° 40.283' N
11 3	1-19-09	<i>y</i>	·	7,202		103° 18.817' W
TP3	1-19-09	12'	77	6,881		33° 40.283' N
113	1 10 00	- 12		0,001		103° 18.817' W
TP3	2-10-09	15'		2,752		33° 40.283' N
				,		103° 18.817' W
TP3	2-10-09	20'		2,742		33° 40.283' N
				<b></b>		103° 18.817' W
TP3	2-10-09	25'		921		33° 40.283' N
						103° 18.817' W
TP3	2-10-09	30'		183		33° 40.283' N
						103° 18.817' W
TP3	2-10-09	35'		196	0.0	33° 40.283' N
						103° 18.817' W
TP4	12-24-08	Surface	29,870	577		33° 40.281' N
		<del></del>				103° 18.826' W
TP4	12-24-08	2'	11,520	1,692		33° 40.281' N
					<del> </del>	103° 18.826' W 33° 40.281' N
TP4	1-19-09	3'	2,100	4,320		
			-			103° 18.826' W 33° 40.281' N
TP4	1-19-09	5'	71	1,382		103° 18.826' W
						33° 40.281' N
TP4	1-19-09	7'		2,451		103° 18.826' W
					<u> </u>	33° 40.281' N
TP4	1-20-09	9'		1,821		103° 18.826' W
TD 4	1 20 00	101		1.000		33° 40.281' N
TP4	1-20-09	12'	66	1,299		103° 18.826' W
TD4	2 10 00	1.57		1 454		33° 40.281' N
TP4	2-10-09	15'		1,454		103° 18.826' W
TP4	2-10-09	20'		104		33° 40.281' N
1174	2-10-09	20		104		103° 18.826' W
TP4	2-10-09	25'		196	0.0	33° 40.281' N
	<u> </u>	i	L	L		103° 18.826' W

Analyst Notes____

#### Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768

## Field Analytical Report Form

Client Oxy USA Curtis Elam/Logan Anderson _____ Analyst ___ **Site** Todd Lower San Andres #8 Flowline Leak TPH/PPM CI/PPM PID/PPM Sample ID **Depth GPS** Date 33° 40.292' N Surface 61,400 1,311 TP5 12-24-08 103° 18.809' W 33° 40.292' N TP5 12-24-08 2° 37,600 2,151

113	12 24 00		37,000	2,131	103° 18.809' W
TP5	1-20-09	3'	5,600	7,851	33° 40.292' N 103° 18.809' W
TDE	1 20 00		470	9.200	33° 40.292' N
TP5	1-20-09	5'	470	8,390	103° 18.809' W
TP5	1-20-09	7'	70	8,233	33° 40.292' N
	1 20 05			0,233	103° 18.809' W
TP5	1-20-09	9'		8,271	33° 40.292' N
					103° 18.809' W
TP5	1-20-09	12'	79	8,638	33° 40.292' N
					103° 18.809° W
TP5	2-11-09	15'		5,915	33° 40.292' N 103° 18.809' W
			,		33° 40.292' N
TP5	2-11-09	20'		4,776	103° 18.809° W
					33° 40.292' N
TP5	2-11-09	25'		5,642	103° 18.809' W
TDS	2 11 00	202		4.590	33° 40.292' N
TP5	2-11-09	30'		4,580	103° 18.809' W
TP5	2-11-09	35'		4,224	33° 40.292' N
113	2-11-07			7,227	103° 18.809' W
TP5	2-11-09	40'		3,588	33° 40.292' N
		.,,			103° 18.809° W
TP5	2-11-09	45'		4,395	33° 40.292' N
					103° 18.809° W
TP5	2-11-09	50'		5,234	33° 40.292' N
					103° 18.809' W
TP5	2-11-09	55'		1,955	33° 40.292' N
	<u> </u>				103° 18.809' W 33° 40.292' N
TP5	2-11-09	60'		1,130	103° 18.809' W
		L	1	<u> </u>	103 18.8UV W

Analyst Notes_____

# Elke Environmental, Inc. P.O. Box 14167 Odessa, TX 79768

# Field Analytical Report Form

nt Oxy USA				Analyst _	Curtis Ela	am/Logan Anderson
Todd Low	er San Andr	es #8 Flo	wline Leak	-		
Sample ID	Date	Depth	TPH / PPM	Cl/PPM	PID / PPM	GPS
TP5	2-11-09	65'		212		33° 40.292' N 103° 18.809' W
TP5	2-11-09	70'		204	0.0	33° 40.292' N 103° 18.809' W
Background	1-20-09	Surface	27	123		33° 40.290' N 103° 18.816' W
Background	1-20-09	5'	56	138		33° 40.290' N 103° 18.816' W
Background	1-20-09	9'	38	146		33° 40.290' N 103° 18.816' W
North Wall	1-20-09	2'	57	171		33° 40.293' N 103° 18.801' W
North Wall	1-20-09	5'	66	139		33° 40.293' N 103° 18.801' W
South Wall	1-20-09	2'	36	154		33° 40.272' N 103° 18.820' W
South Wall	1-20-09	5'	78	126		33° 40.272' N 103° 18.820' W 33° 40.292' N
East Wall	1-20-09	2'	37	127		103° 18.809' W 33° 40.292' N
East Wall	1-20-09	5'	59	147		103° 18.809' W 33° 40.290' N
West Wall	1-20-09	2'	34	134		103° 18.826' W 33° 40.290' N
West Wall	1-20-09	5'	28	168		103° 18.826' W
		<u></u>				

Analyst Notes____



TODD LOWER SAN ANDRES #8 MW-1	TODD LOWER SAN ANDRES #8 MW-1   PAGE 1 OF 2												
MILNESAND GO N ON 206 TURN R GO E FOR 1.5 MI TURN R AGAIN S FOR 2THS MILE - ROOSEVELT CO, NM	MILNESAND GO N ON 206 TURN R GO E FOR 1.5 MI TURN R AGAIN S FOR 2THS MILE - ROOSEVELT CO, NM	Z		•	•	#8 MW-1	PAGE	1 OF 2	OSE PILE NUM	BER(S)			
MILNESAND GO N ON 206 TURN R GO E FOR 1.5 MI TURN R AGAIN S FOR 2THS MILE - ROOSEVELT CO, NM	MILNESAND GO N ON 206 TURN R GO E FOR 1.5 MI TURN R AGAIN S FOR 2THS MILE - ROOSEVELT CO, NM	ATI							PHONE (OPTIO	NAL)			
MILNESAND GO N ON 206 TURN R GO E FOR 1.5 MI TURN R AGAIN S FOR 2THS MILE - ROOSEVELT CO, NM	MILNESAND GO N ON 206 TURN R GO E FOR 1.5 MI TURN R AGAIN S FOR 2THS MILE - ROOSEVELT CO, NM	707			ADDRESS		<del> </del>		(TITE)	·	CTP A TIT!		710
MILNESAND GO N ON 206 TURN R GO E FOR 1.5 MI TURN R AGAIN S FOR 2THS MILE - ROOSEVELT CO, NM	MILNESAND GO N ON 206 TURN R GO E FOR 1.5 MI TURN R AGAIN S FOR 2THS MILE - ROOSEVELT CO, NM	ÆLL			ADDRESS				1	ď	-		
MILNESAND GO N ON 206 TURN R GO E FOR 1.5 MI TURN R AGAIN S FOR 2THS MILE - ROOSEVELT CO, NM	MILNESAND GO N ON 206 TURN R GO E FOR 1.5 MI TURN R AGAIN S FOR 2THS MILE - ROOSEVELT CO, NM	NO.	WELL	<del></del>		DEGREES	MINUTES SEC	CONDS	I				
MILNESAND GO N ON 206 TURN R GO E FOR 1.5 MI TURN R AGAIN S FOR 2THS MILE - ROOSEVELT CO, NM	MILNESAND GO N ON 206 TURN R GO E FOR 1.5 MI TURN R AGAIN S FOR 2THS MILE - ROOSEVELT CO, NM	A.L.A		TAI	TTUDE	33	40	15.00 N	1	•	'H OF A SEC	COND	ŀ
MILNESAND GO N ON 206 TURN R GO E FOR 1.5 MI TURN R AGAIN S FOR 2THS MILE - ROOSEVELT CO, NM	MILNESAND GO N ON 206 TURN R GO E FOR 1.5 MI TURN R AGAIN S FOR 2THS MILE - ROOSEVELT CO, NM	NER	(FROM GP	E) LO	GNUDE	103_	18	43.00 W	* DATUM REC	UIRED WGS 84			
C25 ACRED   (10 ACRE)   (160 ACRE)   (160 ACRE)   SECTION   TOWNSHEP   MARKET   CASUME   WASTE   WAS	C.3 ACRED   (19 ACRE)   (19 ACRE)   (198 ACRE)   SECTION   TOWNSHET   MARTIN   MAR	S.							W 0 500	OTHER D	0000	T. T. C.C.	A13.4
NAME OF LICENSE NUMBER   LICT NUMBER   BLOCK NUMBER   LICT NUMBER   TRACT NUMBER   TRACT NUMBER   TRACT NUMBER   TRACT NUMBER   LICT NUMBER   LICT NUMBER   TRACT NUMBER   LICT NUMBER   TRACT NUMBER   TRACT NUMBER   LICT NUMBER   TRACT NUMBER   LICT NUMBER   TRACT NUMBER   TRACT NUMBER   LICT NUMBER   LICT NUMBER   TRACT NUMBER   TRACT NUMBER   LICT NUMBER   TRACT NUMBER   TRACT NUMBER   TRACT NUMBER   TRACT NUMBER   TRACT NUMBER   TRACT NUMBER   LICT NUMBER   TRACT NUMBER   TRACT NUMBER   LICT NUMBER   TRACT NUMBER   TRACT NUMBER   TRACT NUMBER   TRACT NUMBER   TRACT NUMBER   TRACT NUMBER   LICT NUMBER   TRACT NUMBER   TRACT NUMBER   TRACT NUMBER   TRACT NUMBER   LICT NUMBER   TRACT NUMBER   TRACT NUMBER   TRACT NUMBER   TRACT NUMBER   LICT NUMBER   TRACT NUMBER   LICT NUMBER   LI	SUBDIVISION NAME  SUBDIVISION		MILNESA	AND GC	N ON 206 10	JRN R GO E	FOR 1.5 MI TUP	KN R AGA	IN S FOR	2 I MS MILE - R	OOSEV	ELI CO,	NM
SUBDIVISION NAME  LOT NUMBER  BLOCK NUMBER  UNIT/TRACT  WAP NUMBER  LICENSE NUMBER  HYDROGRAPHIC SURVEY  MAP NUMBER  LICENSE NUMBER  WD1478  EDWARD BRYAN  ORILLING STARTED  2-25-09  DEPTH OF COMPLETED WELL (FT)  T14  DRILLING STARTED  2-25-09  DEPTH OF COMPLETED WELL (FT)  T14  DRILLING FLUTD:  TARE DATES LAN DRY HOLE  STATIC WATER LEVEL IN COMPLETED WELL (FT)  N/A  DRILLING FLUTD:  DEPTH (FT)  BORE HOLE  CASING  TO DIA. (IN)  MATERIAL  TYPE (CASING)  CASING (IN)  THICKNESS (IN)  STATIC WATER LEVEL IN COMPLETED WELL (FT)  THICKNESS (IN)  SIZE (IN)  THICKNESS (IN)  SIZE (IN)  DEPTH (FT)  THICKNESS  FROM TO (FT)  THICKNESS  FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA  (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)  DEPTH (FT)  THICKNESS  FROM TO (FT)  THICKNESS  FROM TO (FT)  THICKNESS  COMPLETED WATER SEARING CAVITIES OR FRACTURE ZONES)  THE COMPLETE COMPLETED WELL (GPPM)	SUBDIVISION NAME    V		(2.5 ACRE	9	(10 ACRE)	(4) ACRE)	(160 ACRE)	SECTION		TOWNSHIP	□ NORT II	RANGE	[7] BANI
LICENSE NUMBER  NAME OF LICENSED DRILLER  WD1478  EDWARD BRYAN  STRAUB CORPORATION  N/A  STRAUB CORPORATION  STRAUB CORPORATION  STRAUB CORPORATION  STRAUB CORPORATION  STRAUB CORPORATION  STRAUB CORPORATION  N/A  STRAUB CORPORATION  STRAUB CORPORATION  STRAUB CORPORATION  N/A  STRAUB CORPORATION  STRAUB CORPORATION  STRAUB CORPORATION  N/A  STRAUB CORPORATION  STRAUB CORPORATION  N/A  STRAUB CORPORATION  STRAUB CORPORATIO	LICENSE NUMBER  NAME OF WELL DRILLING COMPANY  STRAUB CORPORATION  STRAUB CORPORATION  STATIC WATER LEVEL IN COMPLETED WELL (FT)  DEPTH WATER FIRST ENCOUNTERED (FT)  114  150  STATIC WATER LEVEL IN COMPLETED WELL (FT)  DEPTH (FT)  BRILLING METHOD: AIR MUD ADDITIVES - SPECIFY:  DEPTH (FT)  BORE HOLE EVEL IN COMPLETED WELL IS.  ARTESIAN DRY HOLE SHALLOW (UNCONFINED)  STATIC WATER LEVEL IN COMPLETED WELL (FT)  N/A  PRILLING METHOD: AIR MUD ADDITIVES - SPECIFY:  DEPTH (FT)  BORE HOLE  CASING  CONNECTION  TYPE (CASING)  NISIDE DIA.  CASING WALL  SLOT  TYPE (CASING)  THICKNESS (IN)  SIZE (IN)  SIZE (IN)  SIZE (IN)  SIZE (IN)  FROM TO DIA (IN)  MATERIAL  TYPE (CASING)  FROM TO DIA (IN)  STATIC WATER LEVEL IN COMPLETED WELL (FT)  N/A  PRILLING METHOD: AIR  MUD ADDITIVES - SPECIFY:  DEPTH (FT)  BORE HOLE  CASING  TYPE (CASING)  TYPE (CASING)  THICKNESS (IN)  SIZE (IN)  N/A  PROM TO DIA (IN)  THICKNESS (IN)  SIZE (IN)  SIZE (IN)  STATIC WATER LEVEL IN COMPLETED WELL (FT)  N/A   WELL RECORD & LOO (Version 69/08)	¥.			1/4	<b>1/4</b>	1/4						☐ Mëxi
LICENSE NUMBER  NAME OF LICENSED DRILLER  WD1478  EDWARD BRYAN  STRAUB CORPORATION  N/A  STRAUB CORPORATION  STRAUB CORPORATION  STRAUB CORPORATION  STRAUB CORPORATION  STRAUB CORPORATION  STRAUB CORPORATION  N/A  STRAUB CORPORATION  STRAUB CORPORATION  STRAUB CORPORATION  N/A  STRAUB CORPORATION  STRAUB CORPORATION  STRAUB CORPORATION  N/A  STRAUB CORPORATION  STRAUB CORPORATION  N/A  STRAUB CORPORATION  STRAUB CORPORATIO	LICENSE NUMBER  NAME OF WELL DRILLING COMPANY  STRAUB CORPORATION  STRAUB CORPORATION  STATIC WATER LEVEL IN COMPLETED WELL (FT)  DEPTH WATER FIRST ENCOUNTERED (FT)  114  150  STATIC WATER LEVEL IN COMPLETED WELL (FT)  DEPTH (FT)  BRILLING METHOD: AIR MUD ADDITIVES - SPECIFY:  DEPTH (FT)  BORE HOLE EVEL IN COMPLETED WELL IS.  ARTESIAN DRY HOLE SHALLOW (UNCONFINED)  STATIC WATER LEVEL IN COMPLETED WELL (FT)  N/A  PRILLING METHOD: AIR MUD ADDITIVES - SPECIFY:  DEPTH (FT)  BORE HOLE  CASING  CONNECTION  TYPE (CASING)  NISIDE DIA.  CASING WALL  SLOT  TYPE (CASING)  THICKNESS (IN)  SIZE (IN)  SIZE (IN)  SIZE (IN)  SIZE (IN)  FROM TO DIA (IN)  MATERIAL  TYPE (CASING)  FROM TO DIA (IN)  STATIC WATER LEVEL IN COMPLETED WELL (FT)  N/A  PRILLING METHOD: AIR  MUD ADDITIVES - SPECIFY:  DEPTH (FT)  BORE HOLE  CASING  TYPE (CASING)  TYPE (CASING)  THICKNESS (IN)  SIZE (IN)  N/A  PROM TO DIA (IN)  THICKNESS (IN)  SIZE (IN)  SIZE (IN)  STATIC WATER LEVEL IN COMPLETED WELL (FT)  N/A   WELL RECORD & LOO (Version 69/08)	Ţ	SUBDIVISIO	NNAME				LOT NU	MBER.	BLOCK NUMBER		UNIT/TRAC	21
WD1478 EDWARD BRYAN  DRILLING STARTED  2-25-09  DRILLING ENDED  2-25-09  DRIPH OF COMPLETED WELL (FT)  DRIVEN COMPLETED WELL IS. ARTESIAN  DRY HOLE  SHALLOW (UNCONFINED)  DRILLING METHOD:  DRILLING METHOD:  DRY HOLE  SHALLOW (UNCONFINED)  DRY HOLE  SHALLOW (UNCONFINED)  STATIC WATER LEVEL IN COMPLETED WELL (FT)  N/A  DRILLING METHOD:  DRILLING METHOD:  DRY HOLE  SHALLOW (UNCONFINED)  DRY HOLE  SHALLOW (UNCONFINED)  STATIC WATER LEVEL IN COMPLETED WELL (FT)  N/A  DRILLING METHOD:  DRY HOLE  SHALLOW (UNCONFINED)  STATIC WATER LEVEL IN COMPLETED WELL (FT)  N/A  DRILLING METHOD:  DRY HOLE  SHALLOW (UNCONFINED)  STATIC WATER LEVEL IN COMPLETED WELL (FT)  N/A  DRILLING METHOD:  DRY HOLE  SHALLOW (UNCONFINED)  STATIC WATER LEVEL IN COMPLETED WELL (FT)  N/A  DRILLING METHOD:  DRY HOLE  SHALLOW (UNCONFINED)  STATIC WATER LEVEL IN COMPLETED WELL (FT)  N/A  DRILLING METHOD:  DRY HOLE  STATIC WATER LEVEL IN COMPLETED WELL (FT)  N/A  STATIC WATER LEVEL IN COMPLETED WELL (FT)  N/A  DRY HOLE  STATIC WATER LEVEL IN COMPLETED WELL (FT)  N/A  STATIC WATER LEVEL IN COMPLETED WELL (FT)  N/A  DRY HOLE  STATIC WATER LEVEL IN COMPLETED WELL (FT)  N/A  STATIC WATER LEVEL IN COMPLETED WEL	WD1478 EDWARD BRYAN  DRILLING STARTED  2-25-09  DRILLING STARTED  2-25-09  DRILLING STARTED  2-25-09  DRILLING STARTED  DRILLING STARTED  COMPLETED WELL IS.  ARTESIAN  DRY HOLE  STATIC WATER LEVEL IN COMPLETED WELL (FT)  N/A  DRILLING FLUID:  PART  MUD  DEPTH (FT)  DRILLING METHOD:  PROM TO  DIA (IN)  MATERIAL  TYPE (CASING)  DRY HOLE  CASING WALL  SLOT  TYPE (CASING)  CASING (IN)  THICKNESS (IN)  SIZE (IN)  STATIC WATER LEVEL IN COMPLETED WELL (FT)  N/A  DEPTH (FT)  THICKNESS (IN)  SIZE (IN)  DEPTH (FT)  THICKNESS (IN)  TO (FT)  (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)  METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA  TOTAL ESTIMATED WELL YIELD (GPM)  WELL RECORD & LOG (Version 6/908)	ō	HYDROGRA	PHIC SURV	EY					MAP NUMBER		TRACT NU	MBER
WD1478 EDWARD BRYAN  DRILLING STARTED  2-25-09  DRILLING ENDED  2-25-09  DRIPH OF COMPLETED WELL (FT)  DRIVEN COMPLETED WELL IS. ARTESIAN  DRY HOLE  SHALLOW (UNCONFINED)  DRILLING METHOD:  DRILLING METHOD:  DRY HOLE  SHALLOW (UNCONFINED)  DRY HOLE  SHALLOW (UNCONFINED)  STATIC WATER LEVEL IN COMPLETED WELL (FT)  N/A  DRILLING METHOD:  DRILLING METHOD:  DRY HOLE  SHALLOW (UNCONFINED)  DRY HOLE  SHALLOW (UNCONFINED)  STATIC WATER LEVEL IN COMPLETED WELL (FT)  N/A  DRILLING METHOD:  DRY HOLE  SHALLOW (UNCONFINED)  STATIC WATER LEVEL IN COMPLETED WELL (FT)  N/A  DRILLING METHOD:  DRY HOLE  SHALLOW (UNCONFINED)  STATIC WATER LEVEL IN COMPLETED WELL (FT)  N/A  DRILLING METHOD:  DRY HOLE  SHALLOW (UNCONFINED)  STATIC WATER LEVEL IN COMPLETED WELL (FT)  N/A  DRILLING METHOD:  DRY HOLE  SHALLOW (UNCONFINED)  STATIC WATER LEVEL IN COMPLETED WELL (FT)  N/A  DRILLING METHOD:  DRY HOLE  STATIC WATER LEVEL IN COMPLETED WELL (FT)  N/A  STATIC WATER LEVEL IN COMPLETED WELL (FT)  N/A  DRY HOLE  STATIC WATER LEVEL IN COMPLETED WELL (FT)  N/A  STATIC WATER LEVEL IN COMPLETED WELL (FT)  N/A  DRY HOLE  STATIC WATER LEVEL IN COMPLETED WELL (FT)  N/A  STATIC WATER LEVEL IN COMPLETED WEL	WD1478 EDWARD BRYAN  DRILLING STARTED  2-25-09  DRILLING STARTED  2-25-09  DRILLING STARTED  2-25-09  DRILLING STARTED  DRILLING STARTED  COMPLETED WELL IS.  ARTESIAN  DRY HOLE  STATIC WATER LEVEL IN COMPLETED WELL (FT)  N/A  DRILLING FLUID:  PART  MUD  DEPTH (FT)  DRILLING METHOD:  PROM TO  DIA (IN)  MATERIAL  TYPE (CASING)  DRY HOLE  CASING WALL  SLOT  TYPE (CASING)  CASING (IN)  THICKNESS (IN)  SIZE (IN)  STATIC WATER LEVEL IN COMPLETED WELL (FT)  N/A  DEPTH (FT)  THICKNESS (IN)  SIZE (IN)  DEPTH (FT)  THICKNESS (IN)  TO (FT)  (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)  METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA  TOTAL ESTIMATED WELL YIELD (GPM)  WELL RECORD & LOG (Version 6/908)											1	
DRILLINGSTARTED 2-25-09  114  150  STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A  DRILLING FLUID: AIR MUD ADDITIVES - SPECIFY:  DRILLING MATERIAL  DEPTH (FT) BORE HOLE CASING MATERIAL  TYPE (CASING) CASING (IN) THICKNESS (IN) SIZE (IN)  PART OF THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  TO DEPTH (FT) THICKNESS (FT)  TO DEPTH (FT) THICKNESS (FT)  TO DEPTH (FT) THICKNESS (FT)  TO DEPTH (FT) THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  THICKNESS (FT)  T	DRILLING STARTED 2-25-09 2-25-09 114 150 STATIC WATER FIRST ENCOUNTERED (FT) N/A  COMPLETED WELL IS. ARTESIAN DRY HOLE SHALLOW (UNCONFINED)  DRILLING FLUID: ARTESIAN DRY HOLE CABLE TOOL DRIBER - SPECIFY:  DRILLING METHOD: TO DIA (IN) MATERIAL TYPE (CASING) 114 94 5 SCH 40 PVC 010 SCREEN FJ 2 0.154 0.10  DEPTH (FT) THICKNESS (IN) SIZE (IN) 94 1+43 5 SCH 40 PVC RISER FJ 2 0.154 0.10  DEPTH (FT) THICKNESS (IN) CASING CAVITIES OR FRACTURE ZONES)  DEPTH (FT) THICKNESS (IN) CIDEN  FROM TO (FT) (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)  METHOD USED TO ESTIMATE VIELD OF WATER-BEARING STRATA  FOR OSE INTERNAL USE  WELL RECORD & LOG (Version 6/9/08)		LICENSE NU	MBER	1								
2-25-09 2-25-09 1114 150  COMPLETED WELL IS. ARTESIAN DRY HOLE SHALLOW (UNCONFINED) STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A  DRILLING FLUID: AIR MID ADDITIVES - SPECIFY:  DRILLING METHOD: TROTARY HAMMER CABLE TOOL OTHER - SPECIFY:  DEPTH (FT) BORE HOLE CASING CONNECTION INSIDE DIA. CASING WALL SLOT TYPE (CASING) CASING (IN) THICKNESS (IN) SIZE (IN)  114 94 5 SCH 40 PVC .010 SCREEN FJ 2 0.154 0.10  94 +43 5 SCH 40 PVC RISER FJ 2 0.154 RISER  DEPTH (FT) THICKNESS FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (GPM)  FROM TO (FT) (FT) THICKNESS (IN) CINCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	2-25-09 114 150  COMPLETED WELL IS. ARTESIAN DRY HOLE SHALLOW (UNCONFINED)  TOTAL ESTIMATED WELL INCOMPLETED WELL (FT)  N/A  DRILLING METHOD: AIR MUD ADDITIVES - SPECIFY:  DRILLING METHOD: ROTARY HAMMER CABLE TOOL OTHER - SPECIFY:  DRILLING METHOD: AIR MUD ADDITIVES - SPECIFY:  DRILLING METHOD: ROTARY HAMMER CABLE TOOL OTHER - SPECIFY:  DEPTH (FT) BORE HOLE CASING CONNECTION INSIDE DIA. CASING WALL SLOT TYPE (CASING) CASING (IN) THICKNESS (IN) SIZE (IN)  114 94 5 SCH 40 PVC 010 SCREEN FJ 2 0.154 0.10  94 +43 5 SCH 40 PVC RISER FJ 2 0.154 RISER  DEPTH (FT) THICKNESS FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (GPM)  FROM TO (FT) (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES) (GPM)  WELL RECORD & LOG (Version 6/9/08)												
COMPLETED WELL IS. ARTESIAN DRY HOLE SHALLOW (UNCONFINED)  STATIC WATER LEVEL IN COMPLETED WELL (FT)  N/A  DRILLING FLUID: AIR MUD ADDITIVES - SPECIFY:  DRILLING METHOD: ROTARY HAMMER CABLE TOOL OTHER - SPECIFY:  DEPTH (FT) BORE HOLE CASING CONNECTION INSIDE DIA. CASING WALL SLOT TYPE (CASING) CASING (IN) THICKNESS (IN) SIZE (IN)  114 94 5 SCH 40 PVC .010 SCREEN FJ 2 0.154 0.10  94 +43 5 SCH 40 PVC RISER FJ 2 0.154 RISER  DEPTH (FT) THICKNESS FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA YIELD FROM TO (FT) (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)  DEPTH (FT) THICKNESS (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	OMPLETED WELL IS. ARTESIAN DRY HOLE SHALLOW (UNCONFINED)  TATIC WATER LEVEL IN COMPLETED WELL (FT)  N/A  DRILLING METHOD: AIR MID ADDITIVES - SPECIFY:  DRILLING METHOD: TO DIA. (IN)  MATERIAL CASING CONNECTION INSIDE DIA. CASING WALL SLOT TYPE (CASING)  TYPE (CASING)  CASING (IN)  THICKNESS (IN)  SIZE (IN)  114 94 5 SCH 40 PVC .010 SCREEN FJ 2 0.154 0.10  94 +43 5 SCH 40 PVC RISER FJ 2 0.154 RISER  DEPTH (FT)  THICKNESS  FROM TO FRINCIPAL WATER-BEARING STRATA (GPM)  DEPTH (FT)  THICKNESS  FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (GPM)  WELL RECORD & LOG (Version 6/9/08)		1		1	DEPTH OF COM	· ·	BORE HO		DEPTH WATER FIR	ST ENCOUN	ITERED (FT)	
114   94   5   SCH 40 PVC .010 SCREEN   FJ   2   0.154   0.10     94   +43   5   SCH 40 PVC RISER   FJ   2   0.154   RISER     DEPTH (FT)   THICKNESS   FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA   YIELD     FROM   TO   (FT)   (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)   (GPM)	TOTAL ESTIMATE VIELD OP WATER-BEARING STRATA  TOTAL ESTIMATE DESCRIPTION OF PRINCIPAL WATER DEARING STRATA (GPM)  METHOD USED TO ESTIMATE VIELD OP WATER-BEARING STRATA  FOR OSE INTERNAL USE  TOTAL ESTIMATE WELL VIELD (GPM)  WELL RECORD & LOG (Version 6/9/08)	TIO		<del></del>		<u> </u>				STATIC WATER LEV	VEL IN COM	PLETED WEL	L(FT)
114   94   5   SCH 40 PVC .010 SCREEN   FJ   2   0.154   0.10     94   +43   5   SCH 40 PVC RISER   FJ   2   0.154   RISER     DEPTH (FT)   THICKNESS   FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA   YIELD     FROM   TO   (FT)   (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)   (GPM)	TOTAL ESTIMATE VIELD OP WATER-BEARING STRATA  TOTAL ESTIMATE DESCRIPTION OF PRINCIPAL WATER DEARING STRATA (GPM)  METHOD USED TO ESTIMATE VIELD OP WATER-BEARING STRATA  FOR OSE INTERNAL USE  TOTAL ESTIMATE WELL VIELD (GPM)  WELL RECORD & LOG (Version 6/9/08)	EMA A	COMPLETE	WELL IS.	ARTESIAN	DRY HOLE	SHALLOW (UP	(CONFINED)			N/A	1	<u></u>
114   94   5   SCH 40 PVC .010 SCREEN   FJ   2   0.154   0.10     94   +43   5   SCH 40 PVC RISER   FJ   2   0.154   RISER     DEPTH (FT)   THICKNESS   FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA   YIELD     FROM   TO   (FT)   (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)   (GPM)	TOTAL ESTIMATE VIELD OP WATER-BEARING STRATA  TOTAL ESTIMATE DESCRIPTION OF PRINCIPAL WATER DEARING STRATA (GPM)  METHOD USED TO ESTIMATE VIELD OP WATER-BEARING STRATA  FOR OSE INTERNAL USE  TOTAL ESTIMATE WELL VIELD (GPM)  WELL RECORD & LOG (Version 6/9/08)	O N	DRILLINGF	LUID:	<b>✓</b> AIR	MUD MUD	ADDITIVES -	SPECIFY:					
114   94   5   SCH 40 PVC .010 SCREEN   FJ   2   0.154   0.10     94   +43   5   SCH 40 PVC RISER   FJ   2   0.154   RISER     DEPTH (FT)   THICKNESS   FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA   YIELD     FROM   TO   (FT)   (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)   (GPM)	THE THICKNESS FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (GPM)    METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA (GPM)    METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA (GPM)    METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA (GPM)    METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA (GPM)    METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA (GPM)    METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA (GPM)    METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA (GPM)    METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA (GPM)	NGI	DRILLING	ETHOD:	✓ ROTARY	HAMMER	CABLE TOOL	ОТН	ER - SPECIFY:				
114   94   5   SCH 40 PVC .010 SCREEN   FJ   2   0.154   0.10     94   +43   5   SCH 40 PVC RISER   FJ   2   0.154   RISER     DEPTH (FT)   THICKNESS   FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA   YIELD     FROM   TO   (FT)   (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)   (GPM)	TOTAL ESTIMATE VIELD OP WATER-BEARING STRATA  TOTAL ESTIMATE DESCRIPTION OF PRINCIPAL WATER DEARING STRATA (GPM)  METHOD USED TO ESTIMATE VIELD OP WATER-BEARING STRATA  FOR OSE INTERNAL USE  TOTAL ESTIMATE WELL VIELD (GPM)  WELL RECORD & LOG (Version 6/9/08)	1	<del></del>		-4								
94 +43 5 SCH 40 PVC RISER FJ 2 0.154 RISER  DEPTH (FT) THICKNESS FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA YIELD (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES) (GPM)	94 +43 5 SCH 40 PVC RISER FJ 2 0.154 RISER  DEPTH (FT) THICKNESS FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES) (GPM)  METHOD USED TO BETIMATE VIELD OF WATER-BEARING STRATA  TOTAL ESTIMATED WELL VIELD (GPM)  FOR OSE INTERNAL USE  WELL RECORD & LOG (Version 6/9/08)	LDR								<del> </del>			
FROM TO (FT) (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES) (GPM)	FOR OSE INTERNAL USE  FROM TO (FT) (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES) (GPM)	"	<u></u>		<del></del>			-		<del></del>	<u> </u>		<del></del>
FROM TO (FT) (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES) (GPM)	FOR OSE INTERNAL USE  FROM TO (FT) (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES) (GPM)												
FROM TO (FT) (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES) (GPM)	FOR OSE INTERNAL USE  FROM TO (FT) (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES) (GPM)				<u> </u>								
STAND STANDS STA	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA  FOR OSE INTERNAL USE  WELL RECORD & LOG (Version 6/9/08)	4		<del></del>		F							
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA  FOR OSE INTERNAL USE  WELL RECORD & LOG (Version 6/9/08)	RATA	FROM	.10	(11)	<del></del>	(INCLUDE WAT	ER-BEAKIN	G CAVITIES O	IK FRACTURE ZON	(ES)		(GPNI)
Z Z	FOR OSE INTERNAL USE  WELL RECORD & LOG (Version 6/9/08)							<del></del>	· · · · · · · · · · · · · · · · · · ·				<b>†</b>
	FOR OSE INTERNAL USE  WELL RECORD & LOG (Version 6/9/08)	KIN						***************************************		····			
BEA	FOR OSE INTERNAL USE  WELL RECORD & LOG (Version 6/9/08)	BEA											
	FOR OSE INTERNAL USE  WELL RECORD & LOG (Version 6/9/08)	LER											
METHOD USED TO ESTIMATE VIBLD OF WATER-BEARING STRATA  TOTAL ESTIMATED WELL VIELD (GPM)	FOR OSE INTERNAL USE WELL RECORD & LOG (Version 6/9/08)	WA.	METHOD U	SED TO EST	TIMATE YIELD OF W.	ater-bearing str	ATA			TOTAL ESTIMATE	D MELL YIE	ELD (GPM)	
	(1000 to 000	<u> </u>	<u> </u>										
FOR OSE INTERNAL USE WELL RECORD & LOG (Version Kroma)					AL USE		<del></del>		····	WELL RECO	RD & LO	G (Version 6	V9/08)
(1000 to 200	The state of the s		LOCATIO		·····		POD NUM	BER	<del> </del>	TRN NUMBI	ER	DV CC :	07.0
FILE NUMBER POD NUMBER TRN NUMBER			- 1 1 A 1 1	ЛN						(		PAGE 1	UE 3

		ATTACH ADDITIONAL FACES AS NEEDED TO FUEE F DESCRIBE THE GROUNG FOOD OF THE WELL
-		METHOD: ☐ BAILER ☑ PUMP ☐ AIR LIFT ☐ OTHER - SPECIFY:
AL INFO	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
Z	ADDITIONAL STATE	MENTS OR EXPLANATIONS:
Ē	2X2 PAD - 4X4	HIGH RISER - WELL CAVED IN AT 114 FT TO 150 FT
9		
જ		
TEST		
1.		
	<u> </u>	
TURE	CORRECT RECOR	ED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND UD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND LIDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:
SIGNA		

SIGNATURE OF DRILLER

FOR OSE INTERNAL USE		WELL RECORD & LOG	(Version 6/9/08)
FILE NUMBER	POD NUMBER	TRN NUMBER	
LOCATION			PAGE 2 OF 2

DATE

LOCATION

PAGE 1 OF 2

# WELL RECORD & LOG OFFICE OF THE STATE ENGINEER www.ose.state.nm.us

<del>-</del> -	POD NUMBE	R (WELL )	(UMBER)				OSE FILE NUM	BER(S)				
Z		•	SAN ANDRE	S #8 MW-1	PA	GE 2 OF 2		,				
Ĕ	WELL OWNE	R NAME(	S)	<del></del>			PHONE (OPTIO	NAL)				
2	OXY USA						·	•				
3	WELL OWNE	R MAILIN	G ADDRESS			·····	CITY		STATE		ŽIP	
I. GENERAL AND WELL LOCATION	P.O. BOX	< 1988					CARLSBA	/D	NM	882	221	
ā				DEGREES	MINUTES	SECONDS	1					
3	WELL LOCATION	N .		33	40	15.00 N	* ACCURACY	REQUIRED: ONE TENT	H OF A SEC	OND		
M	(FROM GP	s) 🖵	ATTTUDE	103	18		* DATUM REC	UIRED: WOS 84				
E E	7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7		ONORTUDE			70,00						
1. G	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS  MILNESAND GO N ON 206 TURN R GO E FOR 1.5 MI TURN R AGAIN S FOR 2THS MILE. ROOSEVELT CO, N											
	(2.5 ACRE	3)	(10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION		TOWNSHIP	п. Т	RANGE		
3	1/4	.	1/4	1/4	1/4			l '	NORTH SOUTH		✓ FAST	
OPTIONAL	SUBDIVISIO	N NAME		<u> </u>	·	LOT NU	MBER	BLOCK NUMBER		UNIT/TRAC		
PTI												
2.0	HYDROGRA	PHIC SUP	VEY					MAPNUMBER		TRACT NU	MBER	
										<u> </u>		
	LICENSE N	JMBER	NAME OF LIC	ENSED DRILLER			· · · · · · · · · · · · · · · · · · ·	NAME OF WELL DR	ELL DRILLING COMPANY			
	WD1478 EDWARD BRYAN							STRAUB COF	RPORAT	TON		
	DRILLING S		DRILLING PN	1	(PLETED WELL (FT)	BOREH	150	DEPTH WATER FIR	ST ENCOUN	TERED (FT)		
Z	2-25-09 2-25-09 114											
DRILLING INFORMATION	STATIC WATER LEVEL IN COMPLETED WELL  STATIC WATER LEVEL IN COMPLETED WEL  N/A										ル(FT)	
Ş	DRILLING FLUID. AIR MUD ADDITIVES - SPECIFY:											
9	DRILLING METHOD. ROTARY HAMMER CABLE TOOL OTHER-SPECIFY:											
Z	DEPT	H (FT)	BORE HO	LE	CASING	(0)	NECTION	INSIDE DIA.	CASIN	G WALL	SLOT	
Æ	FROM	TO	DIA. (IN	1	ATERIAL		E (CASING)	CASING (IN)		NESS (IN)	SIZE (IN)	
3. D	114	94	5	SCH 40 P	VC .010 SCRE	EN	FJ	2	0.	154	0.10	
	94	+43	5	SCH 4	10 PVC RISER		FJ	2	0.	154	RISER	
	·											
						6-10-4-10	100 / 300,000					
	DEPT	H (FT)	THICKNE	PRINCIPAL V	ATER-BEARING S	TRATA		YIELD				
ΙŢΑ	FROM	то	(FT)		(INCLUDE W	ATER-BEARIN	G CAVITIES C	R FRACTURE ZON	NES)		(GPM)	
TRATA	107	103	4			TAN WE	ITE FINE SA	MD			GPD	
1/2												
Ę								· · · · · · · · · · · · · · · · · · ·				
4. WATER BEARING	ļ						<del></del>			<del></del>	ļ	
Ä											<u> </u>	
₹	1			F WATER-BEARING STA ECOVERY RATE				TOTAL ESTIMATE	.400 C			
4. 4								1				
. <del>4</del>								<del></del>				
4. V	FOR OSI	E INTER	NAL USE					WELL RECO	ORD & LO	G (Version 6	6/9/08)	

ایم	TYPE OF	PUMP:	SUBMER		□ JET	NO PUMP – WELL NOT EQUIPPED			İ
Ž,			TURBINI	R	CYLINDER	OTHER - SPECIFY:			
SEAL AND PUMP		ļ	DEPTH	<del>, `                                   </del>	BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT	METHO	
LA	ANNU		FROM	TO	```	A 20140 CAND	(CUBIC FT) PLACEMENT TOPLOAD		
	SEAL GRAVEI		114 81	81 2	5	6 20/40 SAND 16 BAGS OF 3/8 PLUG	-	TOPL	
vri		ŀ	0	2	5	.5 BAGS OF CEMENT		TOPL	
	DODE	3 (1270)							
	DEPTI	<del></del>	THICK (F)		1	COLOR AND TYPE OF MATERIAL ENCOUNT UDE WATER-BEARING CAVITIES OR FRACTI		WAT BEAR	
	FROM 107	110			<u> </u>	ROWN FINE SAND - TINY GRAVEL F		☐ YES	☑NO
	110	112	5	2	Pr Pr	TAN SILTY CLAY - VERY FINE SA		YES	☑ NO
	112	147	3			······································	NU	YES	Ø NO
		<del></del>				RED SILTY CLAY - SAND	4	<del> </del>	Ø NO
	147	150		3	<del> </del>	TAN - GRAY FINE SAND - CLA	<u>r                                      </u>	YES	
ELL	TD	150			-			☐ YES	☑ NO
F. W	ļ	ļ	ļ		<del>-</del>		<del></del>	☐ YES	□ NO
9	<u> </u>	ļ	<del> </del>		+			YES	□ NO
GEOLOGIC LOG OF WELL		ļ						YES	□ NO
) je		<del> </del>	}	······································	<u> </u>	***************************************		YES	□ NO
0.00					<del> </del>			YES	Пио
6.6		ļ						☐ YES	Пио
								YES	□ NO
								YES	□ NO
							☐ YES	□ NO	
								YES	□NO
	<del></del>	<del> </del>	<del> </del>		<u> </u>			YES	ОиО
		1	ATTAC	U A DOMINIO	NAT BACEGAGN	EEDED TO FULLY DESCRIBE THE GEOLOGIC	CLOC OF THE WELL	1153	Цко
<u></u>	<del>-</del>		<del></del>				LOGOF THE WELL		
8	noer:	L TEST	METHOD:			☐ AIR LIFT ☐ OTHER - SPECIFY:			
ODITIONAL INFO	WEL	L IDS1	AND A TA	ULTS - ATT BLE SHOW	ACH A COPY OF ING DISCHARGE	DATA COLLECTED DURING WELL TESTING, AND DRAWDOWN OVER THE TESTING PER	INCLUDING START T IOD.	IME, END	TIME,
NA	ADDITIO	NALSTATE	MENTS OR EXP	LANATIONS:					<del></del>
L					LL CAVED IN	AT 114 FT TO 150 FT			
AD									
35 L	-								
TEST									
1,									
n-1	THE UN					BEST OF HIS OR HER KNOWLEDGE AND BELL			
136	CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGI THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:								EER AND
NA.									
86			SIGNATU	RE OF DRI	LLER	DATE			

FOR OSE INTERNAL USE		WELL RECORD & LOG	(Version 6/9/08)
FILE NUMBER	POD NUMBER	TRN NUMBER	
LOCATION			PAGE 2 OF 2

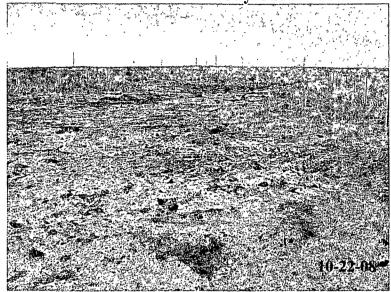
# Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768

# **Monitor Well Report Form**

N	Monitor Well ID	Depth of Water	Total Depth of Well	Feet of Water	Gallons of Water to Purge	Gallons of Water Purged	Time
	MW - 1	109.03	116.21'	7.18'	3.5	1.25	12:43 pm
							<u></u>
							<del></del>

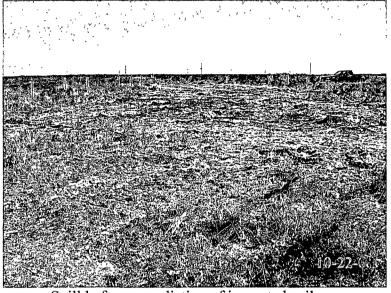
### Oxy USA – Todd Lower San Andres #8 Flowline



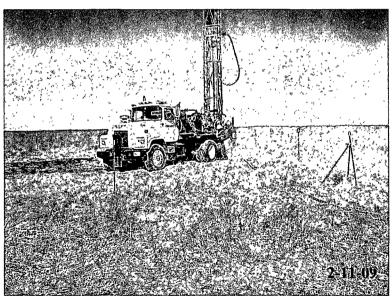
Spill before remediation of impacted soil.



Delineation trench of impacted soil.

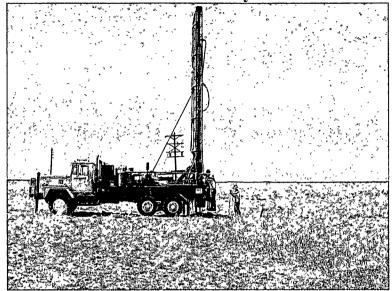


Spill before remediation of impacted soil.

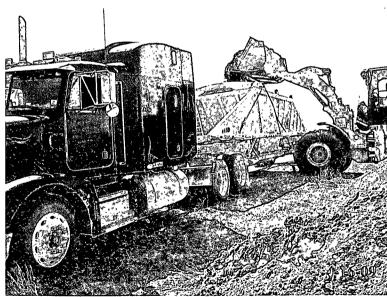


Vertical delineation of impacted soil using air rotary rig.

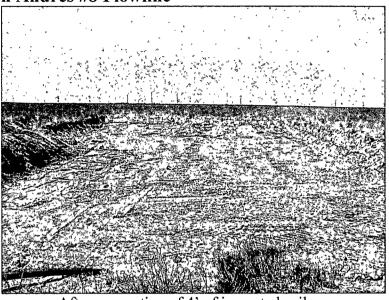
### Oxy USA - Todd Lower San Andres #8 Flowline



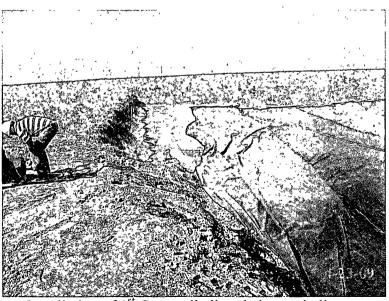
Setting monitor well to determine groundwater depth.



Loading impacted soil to be hauled to disposal.



After excavation of 4' of impacted soil.



Installation of 1st Geotextile liner below poly liner.

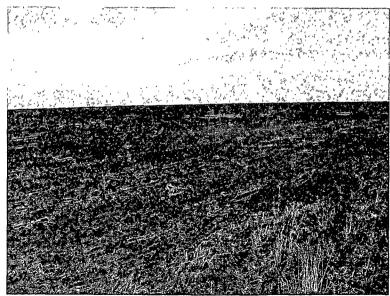
### Oxy USA – Todd Lower San Andres #8 Flowline Leak



Installation of 20 mil poly liner.



Installation of 2nd Geotextile liner above the poly liner.



Site after backfill of clean native soil, contouring to the surrounding area and seeding with BLM Seed Mixture #2.

## **Analytical Report 327145**

for

Elke Environmental, Inc.

Project Manager: Logan Anderson

Oxy USA

**Todd Lower San Andres #8** 

12-MAR-09





12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX

Florida certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675 Miramar, FL E86349

Norcross(Atlanta), GA E87429

South Carolina certification numbers: Norcross(Atlanta), GA 98015

North Carolina certification numbers: Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Tampa - Miami - Latin America Midland - Corpus Christi - Atlanta





12-MAR-09

Project Manager: Logan Anderson Elke Environmental, Inc. 4817 Andrews Hwy P.O. Box 14167 Odessa, tx 79768 Odessa, TX 79762

Reference: XENCO Report No: 327145

Oxy USA
Project Address:

#### Logan Anderson:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 327145. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 327145 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully

Brent Barron, II

Odessa Laboratory Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

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#### **Sample Cross Reference 327145**



### Elke Environmental, Inc., Odessa, TX

Oxy USA

 Sample Id
 Matrix
 Date Collected
 Sample Depth
 Lab Sample Id

 MW-1
 W
 Mar-10-09 12:43
 109.03 - 116.21 ft
 327145-001



### Certificate of Anamis Summary 327145

#### Elke Environmental, Inc., Odessa, TX

Project Name: Oxy USA



Project Id: Todd Lower San Andres #8

Contact: Logan Anderson

Project Location:

Date Received in Lab: Wed Mar-11-09 01:00 pm

Report Date: 12-MAR-09

Toject Eocation.	_			Project Manager:	Brent Barron, II	
	Lab Id:	327145-001				
Analysis Requested	Field Id:	MW-I				
Anaiysis Requesieu	Depth:	109.03-116.21 ft				
	Matrix:	WATER				
	Sampled:	Mar-10-09 12:43				
TDS by SM2540C	Extracted:					
125 5, 5,112 .00	Analyzed:	Mar-11-09 15:30				
	Units/RL:	mg/L RL				
Total dissolved solids		516 5.00				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.

The interpretations and results expressed throughout this snalytical report represent the best judgment of XENCO Laboratories XENCO Laboratories assumes no responsibility and makers no warranty to the end use of the data hereby presented.

Our liability as limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Atlanta - Corpus Christi

Brent Barron
Odessa Laboratory Director



#### **Flagging Criteria**



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte.

  The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- * Outside XENCO's scope of NELAC Accreditation.

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	Pnone	rax
4143 Greenbriar Dr., Stafford, Tx 77477	(281) 240-4200	(281) 240-4280
9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116



**Sample Duplicate Recovery** 



Work Order #: 327145

Lab Batch #: 752276

QC-Sample ID: 327145-001 D

Project ID: Todd Lower San Andres # 8

**Date Prepared:** 03/11/2009 Date Analyzed: 03/11/2009

Project Name: Oxy USA

Analyst: LATCOR

Batch #: Matrix: Water

Reporting Units: mg/L SAMPLE / SAMPLE DUPLICATE RECOVERY								
TDS by SM2540C	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag			
Analyte		[B]						
Total dissolved solids	516	558	8	30				

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes.

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	Project Manager Company Name	Logan Ande	. , .	1	į		,				_					_				1	Proje	ct#:					05					
	Company Address	P O Box 14*			-	7				_										Pro		Loc: Os:		de	1	La	N Co	<u>- 5</u>	<u>دُم'</u>	A	Bre	SA
,	Telephone No: Sampler Signature	432-366-004		1	7			_	Fax No					-086 nv@		100.	con	ń	Reg	ion P			EST TC	ψ.		vze F		TRIR	- -		NPI	
ORDER	* 377	145			_	<b></b> .					<b></b>		Test	VIENT	d Fo	Cont	iner	1	Matri		ı	Π	107	T s	Ŧ	F	딞				П	ğ -
LAS # (asb ease only)	FIEL	D CODE		Beginning Depth	Ending Depth		Dette Sempled		Time Sempled	Fleid Fibraci	Total 8. of Containers	202	HWO,	H30.	Į.	Na ₂ 2.C ₃	Hone	Other ( Specify)	ON Ormania Security	TPH: 458 t ROSEL BO	1 10	Centons (Co., Mg. Ne., 10)	Aritona (Cl. SOr, Atastriby)	SARTESPICEC		Sensivotemes	BTEX 802186030 or BTEX 8280	PG.	TO S			RUSH TAT Proceeding 1st
0	mw-1			109.0	116,21	310	01	/2.	43 1	Ľ	Щ	X	4	4	Ŀ		4	1	GN	1	L	Ľ	1	4.	1	Ы		4	X	П	Ц	<u>~</u>
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	,	<del></del>				┼		+		┢	-	Н	+	+	+-	Н	+	+	,	+	十	Н	+	+	╁	Н	H	┿	十	H	H	十
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-		·		-,	-	↓_		╀			Ц	Ц	4	$\bot$	╀	Ц	4	4		4	L	Ш	4	4	L	Ц	$\sqcup$		1	Ц		1
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Special (no	A	<u> </u>								口	口		<u> </u>	1	1		1	土		1		Sam VOC	ple C	onta o of	inierei Hoek	nents intac	d? 08?	土	+	Y Se J		
Relinquiste		3-/	Date Il oq Date Il-oq	1:0	ISA 0	Recen	red by			· 							.3-,	ate	7	Tim	54	Cust Cust Sem	ody a ody a ole H	and I	on or	ontair color rered	nar(s (e)	i) HL	Fed	(P)		Star
Retinquished	d by		Date	, Tin	700	Recei	M	Ju	as	E	n	in	į			1	31	0	7	110	0	Tem	Ś	ure U	ipon	UPS 20(	ngi:		0		ė	

#### Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

thent EIKO EW.	•			
Date/ Time 3:11-09 13:00				
Lab ID#. 327145				
initials GL				
Sample Receipt	Checklist		_	Client Initials
#1 Temperature of container/ cooler?	(Vee)	No	10.0 °C	unuais
#2 Shipping container in good condition?	(Yes)	No	1	<u> </u>
#3 Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	<del></del>
#4 Custody Seals intact on sample bottles/ container?	Yes	No	. Not Present	<b></b>
#5 Chain of Custody present?	(Yes)	No		<del></del>
#6 Sample instructions complete of Chain of Custody?	Yes	No		
#7 Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8 Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont / Lid	
#9 Container label(s) legible and intact?	(Yes)	No	Not Applicable	
#10 Sample mátrix/ properties agree with Chain of Custody?	(Yes)	No		
#11 Containers supplied by ELOT?	(Yes)	No		
#12 Sámples in proper container/ bottle?	Yes	No	See Below	
#13 Samples properly preserved?	(Yes)	No	See Below	
#14 Sample bottles intact?	Yes	No		
#15 . Preservations documented on Chain of Custody?	Yes	· No		
#16 Containers documented on Chain of Custody?	(Yes)	No		
#17 Sufficient sample amount for indicated test(s)?	Yes	No -	See Below	
#18 All samples received within sufficient hold time?	(Yes)	No	See Below	
#19 Subcontract of sample(s)?	Yes	No.	Not Applicable	1.
#20 VOC samples have zero headspace?	Yes	No	Not Applicable	
Variance Docui  Contact. Contacted by	•		Date/Time	
Corrective Action Taken				
Check all that Apply.  See attached e-mail/ fax Client understands and wou	•		•	
Cooling process had begun	n shortly after	sampling	g event	

# **Analytical Report 324728**

for

Elke Environmental, Inc.

Project Manager: Logan Anderson

Oxy USA

**Todd Lower San Andres #8** 

17-FEB-09





12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:
Houston, TX T104704215-08B-TX - Odessa/Midland, TX T104704400-08-TX

Florida certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Norcross(Atlanta), GA E87429

South Carolina certification numbers: Norcross(Atlanta), GA 98015

North Carolina certification numbers: Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Tampa - Miami - Latin America Midland - Corpus Christi - Atlanta





17-FEB-09

Project Manager: Logan Anderson Elke Environmental, Inc. 4817 Andrews Hwy P.O. Box 14167 Odessa, tx 79768 Odessa, TX 79762

Reference: XENCO Report No: 324728

Oxy USA
Project Address:

#### Logan Anderson:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 324728. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 324728 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully

Brent Barron, II

Odessa Laboratory Manager

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### **Sample Cross Reference 324728**



#### Elke Environmental, Inc., Odessa, TX Oxy USA

Sample Id	Matrix	<b>Date Collected</b>	Sample Depth	Lab Sample Id
TP 1 @ 25'	S	Feb-10-09 12:25	25 ft	324728-001
TP 2 @ 70'	S	Feb-10-09 15:45	70 ft	324728-002
TP 3 @ 35'	S	Feb-10-09 13:19	35 ft	324728-003
TP 4 @ 25'	S	Feb-10-09 11:45	25 ft	324728-004
TP 5 @ 70'	S	Feb-10-09 11:05	70 ft	324728-005



### Certificate of Anamis Summary 324728

#### Elke Environmental, Inc., Odessa, TX

Project Name: Oxy USA



Project Id: Todd Lower San Andres #8

Contact: Logan Anderson

TPH By SW8015 Mod

C6-C12 Gasoline Range Hydrocarbons

C12-C28 Diesel Range Hydrocarbons

C28-C35 Oil Range Hydrocarbons

Project Location:

Percent Moisture

Total TPH

Date Received in Lab: Wed Feb-11-09 03:15 pm

Report Date: 17-FEB-09
Project Manager: Brent Barron, II

RL

RL

15.3

15.3

15.3

15.3

1.00

324728-004 324728-005 Lab Id: 324728-001 324728-002 324728-003 Field Id: TP 1 @ 25' TP 2 @ 70' TP 3 @ 35' TP 4 @ 25' TP 5 @ 70' Analysis Requested 35 ft 25 ft 70 ft Depth: 25 ft 70 ft SOIL SOIL SOIL SOIL SOIL Matrix: Feb-10-09 15:45 Feb-10-09 13:19 Feb-10-09 11:45 Feb-10-09 11:05 Sampled: Feb-10-09 12:25 Extracted: Anions by EPA 300 Analyzed: Feb-14-09 14:17 Feb-14-09 14:17 Feb-14-09 14:17 Feb-14-09 14:17 Feb-14-09 14:17 Units/RL: RLRLmg/kg mg/kg RL mg/kg RLmg/kg mg/kg Chloride 35.1 5.09 42.3 5.10 40.3 5.06 37.3 5,16 58.3 5.09 Extracted: **Percent Moisture** Feb-11-09 17:00 Feb-11-09 17:00 Analyzed: Feb-11-09 17:00 Feb-11-09 17:00 Feb-11-09 17:00

1.20

Feb-12-09 19:19

Feb-13-09 10:16

ND

78.0

ND

78

mg/kg

RL

RL

15.3

15.3

15.3

15.3

1.00

1.96

Feb-12-09 19:19

Feb-13-09 09:51

ND

22.8

ND

22.8

mg/kg

RL

1.00

RL

15.2

15.2

15.2

15.2

%

mg/kg

3.03

Feb-12-09 19:19

Feb-13-09 10:40

ND

ND

ND

ND

RL

RL

15.5

15.5

15.5

15.5

1.00

%

mg/kg

1.83

Feb-12-09 19:19

Feb-13-09 11:04

ND

ND

ND

ND

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our (tability is immed to the amount invoiced for this work order unless otherwise agreed to in writing.

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Atlanta - Corpus Christi

Units/RL:

Extracted:

Analyzed:

Units/RL:

Brent Barron Odessa Laboratory Director

RL

1.00

RL

15.3

153

15.3

15.3

1.73

Feb-12-09 19:19

Feb-13-09 11:28

ND

15.8

ND

15.8

mg/kg



#### **Flagging Criteria**



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte.

  The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- * Outside XENCO's scope of NELAC Accreditation.

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9701 Harry Hines Blvd, Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116



#### Form 2 - Surrogate Recoveries

Project Name: Oxy USA

Work Orders: 324728,

Project ID: Todd Lower San Andres #8

Lab Batch #: 749564

Sample: 324701-009 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg	SU	SURROGATE RECOVERY STUDY										
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags							
Analytes			[D]									
1-Chlorooctane	125	100	125	70-135								
o-Terphenyl	55.8	50.0	112	70-135								

Lab Batch #: 749564

Sample: 324701-009 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY										
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags						
Analytes			[D]								
1-Chlorooctane	123	100	123	70-135							
o-Terphenyl	54.7	50.0	109	70-135							

Lab Batch #: 749564

Sample: 324728-001 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SU	SURROGATE RECOVERY STUDY										
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags							
Analytes			[D]									
1-Chlorooctane	104	100	104	70-135								
o-Terphenyl	57.2	50.0	114	70-135								

Lab Batch #: 749564

Sample: 324728-002 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY							
TPH By SW8015 Mod	Amount Found [A]	Control Limits %R	Flags					
Analytes			[ <b>D</b> ]	1				
1-Chlorooctane	104	100	104	70-135				
o-Terphenyl	57.0	50.0	114	70-135				

Lab Batch #: 749564

Sample: 324728-003 / SMP

Batch:

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY						
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1-Chlorooctane	104	100	104	70-135			
o-Terphenyl	57.2	50.0	114	70-135			

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

^{***} Poor recoveries due to dilution



#### Form 2 - Surrogate Recoveries

Project Name: Oxy USA

Work Orders: 324728,

Project ID: Todd Lower San Andres #8

Lab Batch #: 749564

Sample: 324728-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY							
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes			[D]					
1-Chlorooctane	104	100	104	70-135				
o-Terphenyl	57.7	50.0	115	70-135				

Lab Batch #: 749564

Sample: 324728-005 / SMP

Batch:

Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY							
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes			[D]					
1-Chlorooctane	106	100	106	70-135				
o-Terphenyl	58.8	50.0	118	70-135				

Lab Batch #: 749564

Sample: 524748-1-BKS / BKS

Batch: 1

Matrix: Solid

Units: mg/kg	SURROGATE RECOVERY STUDY							
TPH By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes	',		[ <b>D</b> ]					
1-Chlorooctane	120	100	120	70-135				
o-Terphenyl	52.7	50.0	105	70-135				

Lab Batch #: 749564

Sample: 524748-1-BLK / BLK

Batch: 1

Matrix: Solid

Units: mg/kg	SURROGATE RECOVERY STUDY							
TPH By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags			
Analytes  1-Chlorooctane	102	100	[D]	70-135				
o-Terphenyl	56.3	50.0	113	70-135				

Lab Batch #: 749564

**Sample:** 524748-1-BSD / BSD

Batch: 1

Matrix: Solid

Units: mg/kg	SURROGATE RECOVERY STUDY							
TPH By SW8015 Mod  Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1-Chlorooctane	119	100	119	70-135				
o-Terphenyl	51.5	50.0	103	70-135				

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

^{***} Poor recoveries due to dilution



### **Blank Spike Recovery**



Project Name: Oxy USA

Work Order #: 324728

Project ID:

Todd Lower San Andres #8

Lab Batch #: 749692

Sample: 749692-1-BKS

Matrix: Solid

**Date Analyzed:** 02/14/2009

Date Prepared: 02/14/2009

Analyst: LATCOR

utina IInita

Reporting Units: mg/kg	Batch #: 1 BLANK /BLANK SPIKE RECOVERY STUDY					
Anions by EPA 300	Blank Result [A]	Spike Added [B]	Blank Spike Result	Blank Spike %R	Control Limits %R	Flags
Analytes	1	(~)	[C]	[D]	/010	
Chloride	ND	10.0	10.9	109	90-110	

Blank Spike Recovery [D] = 100*[C]/[B]All results are based on MDL and validated for QC purposes.







Project Name: Oxy USA

Work Order #: 324728

Analyst: BHW

**Date Prepared:** 02/12/2009

Project ID: Todd Lower San Andres #8

Date Analyzed: 02/13/2009

Matrix: Solid

Lab Batch ID: 749564

Sample: 524748-1-BKS

Batch #: 1

Units: mg/kg		BLANK/BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY									
TPH By SW8015 Mod	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	{E}	Result [F]	[G]		1		
C6-C12 Gasoline Range Hydrocarbons	ND	1000	1150	115	1000	1160	116	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	1070	107	1000	1060	106	1	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes



#### Form 3 - MS Recoveries

Project Name: Oxy USA



Work Order #: 324728

Lab Batch #: 749692

Date Prepared:

Project ID: Todd Lower San Andres #8

Date Analyzed: 02/14/2009

02/14/2009

Analyst: LATCOR

QC-Sample ID: 324701-061 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg	MATRIX / MATRIX SPIKE RECOVERY STUDY							
Inorganic Anions by EPA 300  Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag		
Chloride	17300	4690	11500	0	80-120	Х		

Matrix Spike Percent Recovery [D] = 100*(C-A)/BRelative Percent Difference [E] = 200*(C-A)/(C+B)All Results are based on MDL and Validated for QC Purposes



## Form 3 - MSD Recoveries

Project Name: Oxy USA

Work Order #: 324728

Project ID: Todd Lower San Andres #8

Lab Batch ID: 749564

QC- Sample ID: 324701-009 S

Batch #:

Matrix: Soil

Date Analyzed: 02/13/2009

**Date Prepared:** 02/12/2009

Analyst: BHW

Reporting Units: mg/kg		MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY									
TPH By SW8015 Mod	Parent Sample	Spike	Spiked Sample Result	Sample		Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
C6-C12 Gasoline Range Hydrocarbons	ND	1110	1250	113	1110	1230	111	2	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1110	1180	106	1110	1160	105	2	70-135	35	



### **Sample Duplicate Recovery**



Work Order #: 324728

Project Name: Oxy USA

Project ID: Todd Lower San Andres #8 Lab Batch #: 749692

02/14/2009 Analyst: LATCOR Date Prepared: Date Analyzed: 02/14/2009 QC- Sample ID: 324701-061 D Batch #: Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY Reporting Units: mg/kg

Anions by EPA 300  Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	17300	18200	5	20	

Lab Batch #: 749332

Date Prepared: 02/11/2009 Analyst: BEV Date Analyzed: 02/11/2009 1 Batch #: QC-Sample ID: 324687-010 D Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY Reporting Units: % Control **Percent Moisture** Parent Sample Duplicate RPD Limits Result Flag Result %RPD [A] [B] Analyte 8.59 7.24 17 20 Percent Moisture

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes.

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	City/State/Zip; Telephone No: Sampler Signature:	Odessa, TX 78 432-388-0048	768	<del>}</del>		Fax No e-mail		-		-	_	884 <b>/Q</b> y		00.0	xon	_	Re	pert	Fon	PO	_	<b>3</b> 8			rze F	_	TR	RP		O N	PDE	 B
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Special in Retinquish Retinquish	al by	2-/1-0 Oess	9 3.	15 P	Received by: Received by: Received by: Lincolved by: Linco	ia J			<u></u>	<u> </u>						AND THE PROPERTY OF THE PROPER	F1	T		8 200g	OCU Belo selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos selos se se se se se se se se se se se se se	Free can construct to the construction of the	ntali or i conta ele c ele c ele c ele c	denti denti denti denti delive Cilier	ered # Flag	ot? ow? her(s (s) p. 7			C. C	Lon	C STATES C	

#### Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Chent EIK Env.				
Date/ Time. 2.11.07 15.15				
Lab ID#. 324728				
Initials: AL				
Sample Receipt	Checklist			
	1		Client Initials	5
#1 Temperature of container/ cooler?	(Yes)	No	5.U °C	ĺ
#2 Shipping container in good condition?	Yes	No_		
#3 Custody Seals intact on shipping container/ cooler?	Yes	No	C Not Present	1
#4 Custody Seals intact on sample bottles/ container?	Yes.	<u>No</u>	Not Present	ļ
#5 Chain of Custody present?	Yes	No_		1
#6 Sample instructions complete of Chain of Custody?	(Yes)	No		1
#7 Chain of Custody signed when relinquished/ received?	Yes	No		1
#8 Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	1
#9 Container label(s) legible and intact?	Yes	No	Not Applicable	
#10 Sample matrix/ properties agree with Chain of Custody?	Yes	No		]
#11 Containers supplied by ELOT?	Yes	No		1
#12 Samples in proper container/ bottle?	Yes	No	See Below	]
#13 Samples properly preserved?	Yes	No	See Below	1
#14 Sample bottles intact?	Yes	No		7
#15 Preservations documented on Chain of Custody?	Yes	No		1
#16 Containers documented on Chain of Custody?	(es	No		1
#17 Sufficient sample amount for indicated test(s)?	Yes	No	See Below	1
#18 All samples received within sufficient hold time?	Yes	No	See Below	1
#19 Subcontract of sample(s)?	Yes	No	( Not Applicable -	1
#20 VOC samples have zero headspace?	Yes	No	Not Applicable	1
Variance Docu	mentation			_
Contact: Contacted by:	<del></del>	-	Date/ Time:	
Regarding:		<del>,</del>		
			TT. 17-11-11-11-11-11-11-11-11-11-11-11-11-1	
Corrective Action Taken:				
Check all that Apply:  See attached e-mail/ fax  Client understands and wo  Cooling process had begut				