_				•							
District I 1625 N French	Dr Hobbs	NM 88240	ł	St St	ate of	New Mex	ico			Form	C-141
District II 1301 W. Grand)	Energy Mi	nerals	and Natura	l Resources		Re	evised October I	
District III 1000 R10 Brazo	os Road, Azte	c, NM 87410				rvation Div			District	Copies to appr Office in acco	ordance
District IV 1220 S St Frar	ncis Dr., Sant	a Fe, NM 8750	5			h St. Franc e, NM 875			w	ith Rule 116 o side o	on back of form
			Rele	ease Notific				ction	- <u></u>		
						OPERA	ГOR	X	Initial Report	🗌 Final	Report
				ration Co. 154			nna Huddleston			,	
		Street, Bldg y Delaware		<u>00 Midland, , T</u> 7	X	Facility Typ	No. (432)688-1 be Injection	/89			
Surface Ow	vner BLM			Mineral (Dwnerl	BLM			ease No.		
30-015-	29504	l		LOC	ATIO	N OF RE	LEASE				
Unit Letter	Section	Township	Range	Feet from the		Nouth Line	Feet from the	East/West	RECE		1
G_	35	19S	29E								
			La	titude		Longitud	le	<u></u>	JAN -	4 2010	
				NAT	URE	OF REL	EASE		NMOCD A	ARTESIA	
Type of Rele		ced Water connect inj.	line to we	llhead			Release 35 bbls lour of Occurrence		ume Recovered 8		/00
Was Immedi		Given?				If YES, To	Whom?			scovery 12/2/1	
By Whom?	Dill Ugama		Yes] No 🗌 Not R	equired		tcher W/OCD & Hour 12/27/09		W/ BLM		
Was a Water		ched?					olume Impacting		rse.		
			Yes X				, . <u></u>				
If a Waterco	urse was Im	pacted, Desci	tbe Fully.	*				*			
Describe Ca	use of Probl	em and Reme	dial Actio	n Tokon *							
1				connecting injector	ction la	iteral line to	wellhead for inj	ection.			
Hose has b	een replace	ed. Picked u	ip 8 bbls (of produced wat	er						
Describe Are	ea Affected	and Cleanup	Action Tal	ken.*							
				sq. ft.Spill Area tified Tetra-Tec	(off lo h Envir	cation): 2' x	140' = 280 sq. 1	t. ite snill area			
				ith fresh soil.				are spin area	•		
I hereby cert	ify that the	information g	iven above	e is true and comp							
				nd/or file certain r ce of a C-141 rep							
				v investigate and interview of a C-141							
		ws and/or reg					•				
	Ala		11	1.1			<u>OIL CON</u>	SERVAT	ION DIVISI		
Signature:	win	in Al	ida	Wra		Approved by	District/Supervis		Final C-141 subr	ions to be compler mitted with confir	matsu
Printed Nam	e:Donna H	uddleston				Appinved by	LM SW		analyses/docume Expiration Date.	entation on or befo	ore the
Title: Prod	luction Tec	ch				Approval Da	te: 3. 2.10	Expi	ration Date: 5-5	107-1-	TOM
E-mail Addr	ess:dhuddl	eston@stma	ryland.co	m		Conditions o	f Approval: on or before 5	210	Attache	аП	r
Date: 12/29	/2009		Phone	:(432)688-1789	C	ompletion of a	remediation work			p- 393	
* Attach Addi	itional She	ets If Necess			u a	pproval to the	uld be finalized ar Division summaria	zing all action			
NSEB 1006	136791					nvironmental c	be taken to mitiga lamage.	ate	Notify OCD 48 I	iours prior to	·:
NSEB 1006 SEB 1006 SEB 1006	139159	/				- NM	OCD approval sh	all be	obtaining sample are to be presente	s where analyse ed to OCD	5
SEB 1006	139208					obtair	ed prior to any ba activities.	ackfilling	- <u>-</u>	· · ·	~ 7 [′]

`------

Bonham, Sherry, EMNRD

From: Sent: To: Subject: Bonham, Sherry, EMNRD Wednesday, March 31, 2010 10:26 AM 'Reed, Timothy' Parkway Delaware Unit #507 30-015-29504 2RP-393

Tim,

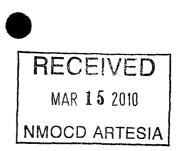
Thank you for visiting with me regarding the above mentioned site. Per our discussion, it is approved that TetraTech utilize an air rotary drilling rig for installation of soil borings to collect deeper samples as proposed. Remediation actions are to be completed and Final reports/documentation submitted on or before July 1, 2010.

Should you have any questions or concerns regarding this matter, please contact me. And should I not hear from you, I will assume you are in agreement.

Please be advised that NMOCD acceptance and/or approval of documents or work plans does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance and/or approval of documents or work plans do not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

Respectfully, Sherry Bonham NMOCD District II





February 22, 2010

Mr≡Mike=Bratcher Environmental Engineer Specialist Oil Conservation Division, District 2 1301 West Grand Avenue Artesia, NM 88210

Re: Assessment Report and Work Plan for the St. Mary Land & Exploration Co., Parkway Delaware Unit #507 Flow Line Leak, Unit G, Section 35, Township 19 South, Range 29 East, Eddy County, New Mexico.

Mr. Bratcher:

Tetra Tech Inc. (Tetra Tech) was contacted by St. Mary Land & Exploration Co. (St. Mary) to assess a flow line spill at the Parkway Delaware Unit #507, located in Unit G, Section 35, Township 19 South, Range 29 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32° 37.023', W 104° 02.513'. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the leak was discovered on December 27, 2009. Approximately 35 barrels of produced water was released from a 1" line connecting the injection lateral line to the wellhead for injection. A total of 8 barrels of fluids were recovered. The initial C-141 is enclosed in Appendix A.

Hydrology

The New Mexico State Engineers Well Report listed one well in Section 34 with an average depth of 60' and wells in Sections 35 and 36, with reported depths of 110' and 115', respectively. The *Geology and Groundwater Resources of Eddy County, New Mexico (Report 3)* showed one well in Section 3 of Township 20 South and Range 29 East, with a reported depth to water of 91' bgs. The well reports are shown in Appendix B.

Previously, Tetra Tech personnel supervised the installation of a temporary well (TMW-1) in Section 35 to establish groundwater quality and depth in this section.



During the installation, the well drilled dry. The well was drilled through fine grain sand with gypsum layers and red shale to a total depth of 140', to the top of a black and gray shale formation (blue shale). The well was measured two days later and showed a depth to groundwater of 122.93 TOC.

Regulatory

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the depth to groundwater, the proposed RRAL for TPH is 5,000 mg/kg.

Soil Assessment and Results

On January 25, 2010, Tetra Tech personnel inspected the site and installed a total of eighteen (18) auger holes to assess the spill area. The spill area is shown on the attached Figure 3. The auger holes were advanced to depths ranging from 1.5' to 6.5' below surface. Select samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1.

Referring to Table 1, all of the samples analyzed were below the RRAL for both BTEX and TPH. Chloride concentrations were defined or appeared to be close to definition based upon decline, in AH-4, AH-8, AH-9 and AH-16. In most cases, deeper samples could not be collected due to a hard caliche layer.

Work Plan

Based upon the results of the initial sampling and the presence of a hard caliche layer, Tetra Tech proposes to utilize an air rotary drilling rig for installation of soil borings to collect deeper samples. Once the additional samples are analyzed and evaluated, a remediation plan will be prepared for NMOCD approval. If you require any additional information or have any questions or comments concerning this work plan, please call at (432) 682-4559.

Respectfully submitted. TETRA TECH 'M Tim Reed, P.G.

Senior Project Manager

cc:

Don Riggs - St. Mary Land & Exploration Co. Mark Bondy - St. Mary Land & Exploration Co. Chad McNeely - St. Mary Land & Exploration Co.

2

.

•

.

.

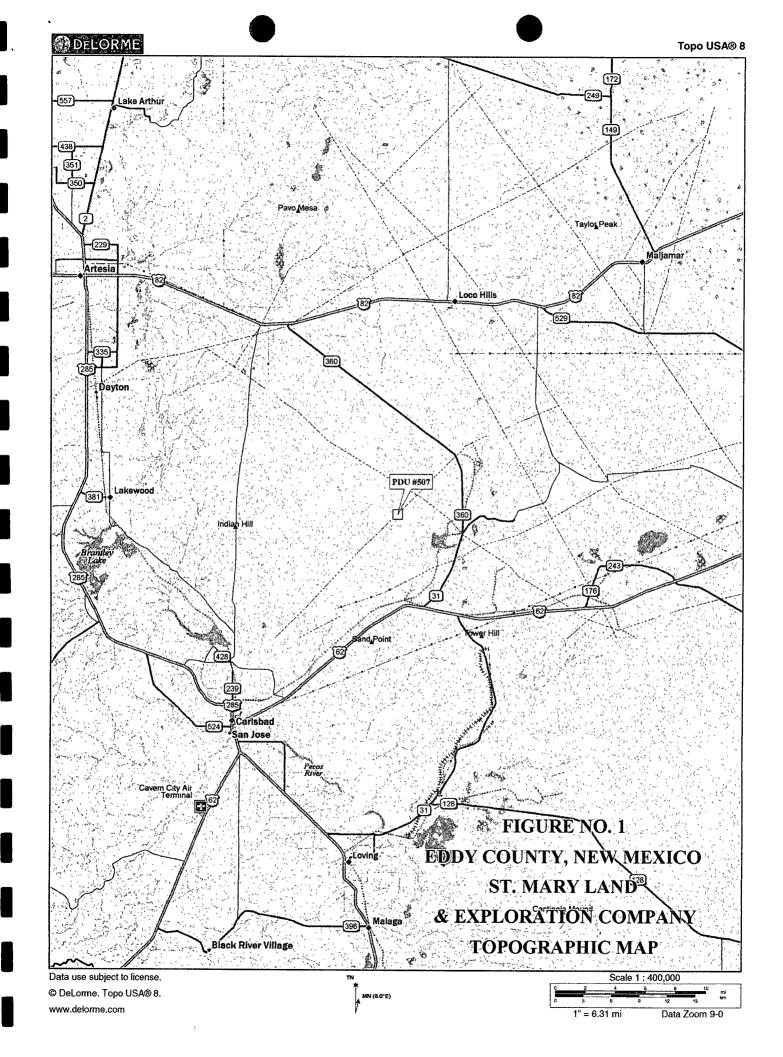
ч ч ·

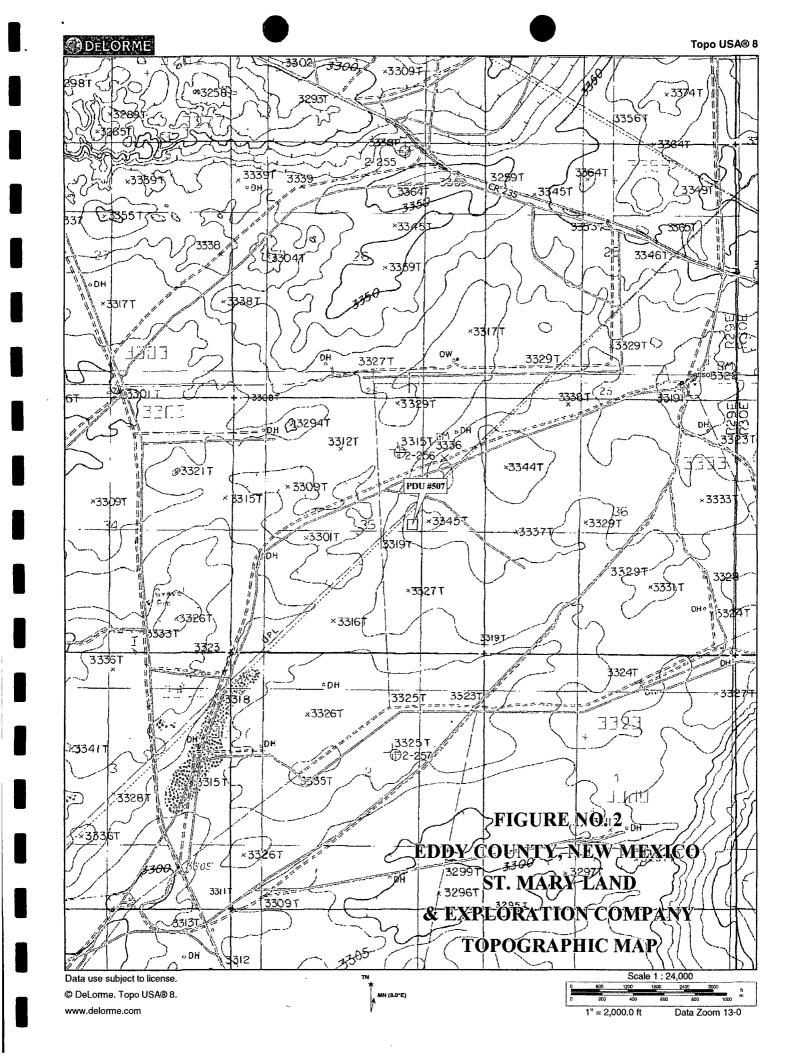
.

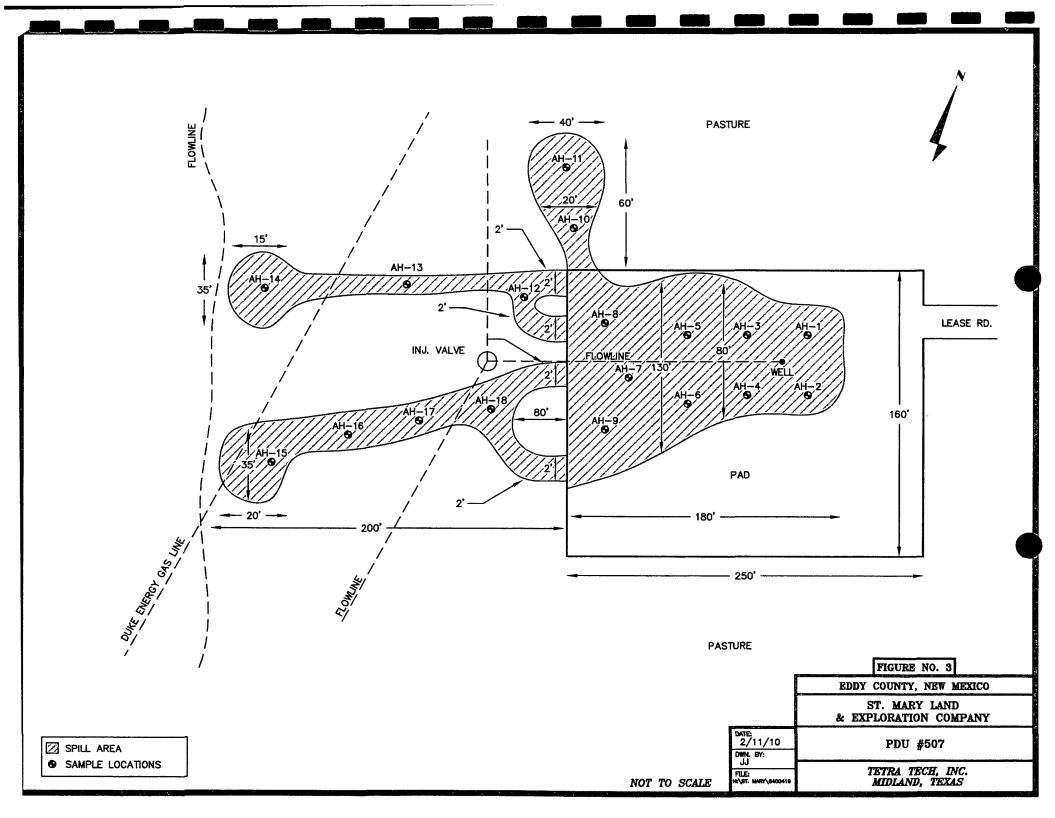
FIGURES

.

.







ų

·

TABLES

Ę

Table 1St. Mary Land & ExplorationParkway Deleware Unit # 507EDDY COUNTY, NEW MEXICO

Sample	Sample	Sample	Depth	Soi	l Status	ТР	H (mg/k	(g)	Benzene	Toluene	Ethlybenzene	Xylene	Chloride
ID	Date	Depth (ft)	(BEB)		Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
AH-1		0-1'		X		<50.0	<1.00		<0.0100	<0.0100	<0.0100	<0.0100	4,720
		1-1.5'		X									1,460
AH-2		0-1'	1	X		<50.0	<1.00		T				618
		1'-1.5'		X									608
		2'-2.5'		X									1,190
AH-3		0-1'		x		<<50.0	<1.00		<0.0100	<0.0100	<0.0100	<0.0100	5,650
		1'-1.5'		X									3,840
		2'-2.5'		X									3,260
AH-4		0-1'	1	X		<<50.0	<1.00	[<u> </u>			Г	1,090
		1'-1.5'		X									<200
		1.5'-2'		X									<200
AH-5		0-1'		X	·	<<50.0	<1.00		[2,970
		1'-1.5'		X									2,260
		2'-2.5'		X									3,860
AH-6		0-1'		x		<<50.0	<1.00			<u> </u>			2,520
		1'-1.5'		x									2,880
		2'-2.5'		X									2,330
		3'-3.5'		X									1,820
AH-7		0-1'		X		<<50.0	<1.00		<0.0100	<0.0100	<0.0100	<0.0100	4,260
		1'-1.5'		Х									1,920
		2'-2.5'		X									2,680
		2.5'-3'		X									3,000
AH-8		0-1'		X		<<50.0	<1.00						3,540
		1'-1.5'		X									1,880

Table 1

St. Mary Land & Exploration Parkway Deleware Unit # 507 EDDY COUNTY, NEW MEXICO

Sample	Sample	Sample	Depth	Soi	Status	TP	'H (mg/k	g)	Benzene	Toluene	Ethlybenzene	Xylene	Chloride
ID	Date	Depth (ft)	(BEB)	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
		2'-2.5'		Х									603
AH-9		0-1'		x		<<50.0	<1.00		<u> </u>		· · · · · · · · · · · · · · · · · · ·		2,000
		1'-1.5'		Х									377
		2'-2.5'		Х									<200
AH-10		0-1'		X		<<50.0	<1.00					[3,680
		1'-1.5'		X									2,440
AH-11		0-1'	[X	, <u>, , , , , , , , , , , , , , , , , , </u>	<<50.0	<1.00		<0.0100	<0.0100	<0.0100	<0.0100	3,070
		1'-1.5'		X									2,930
		2'-2.5'		X									2,850
		3'-3.5		Х									3,880
AH-12		0-1'		x		<<50.0	<1.00				- M		2,030
		1'-1.5'		х									<200
		2'-2.5'		x									1,490
		3'-3.5'		X									1,950
		4'-4.5'		Х									2,460
AH-13		0-1'		X		<<50.0	<1.00		<0.0100	<0.0100	<0.0100	<0.0100	2,390
		1'-1.5'		Х									1,020
		2'-2.5'		Х									2,540
		3'-3.5'		X									1,940
		4'-4.5'		Х									3,060
		5'-5.5'		Х									3,510
		6'-6.5'		X									2,960
AH-14		0-1'	{	X		<<50.0	<1.00				·····		889
		1'-1.5'		X									3,910

Table 1St. Mary Land & ExplorationParkway Deleware Unit # 507EDDY COUNTY, NEW MEXICO

Sample	Sample	Sample	Depth	Soi	l Status	TF	PH (mg/k	(g)	Benzene	Toluene	Ethlybenzene	Xylene	Chloride
ID	Date	Depth (ft)	(BEB)	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
AH-15		0-1'		Х		<<50.0	<1.00						. <200
		1'-1.5'		Х									2,170
		2'-2.5'		Х									2,590
AH-16		0-1'		X		<<50.0	<1.00	<u>_</u>					401
		1'-1.5'		Х									2,020
		2'-2.5'		Х									858
		3'-3.5'		Х	· · · · · · · · · · · · · · · · · · ·								359
AH-17	<u>,,,, ,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	0-1'		X		<<50.0	<1.00			[702
		1'-1.5'		Х									3,900
	~ <u>~~</u> ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	2'-2.5'		Х									5,210
		3'-3.5'		Х									2,120
AH-18	······································	0-1'		X		<<50.0	<1.00						<200
		1'-1.5'		Х									<200
		2'-2.5'		Х									1,180

BEB Below Excavation Bottom

(--) Not Analyzed

1.5 1.5 1 1.5 1.5 1

Excavated material

APPENDIX A

•

			-						\mathcal{C})4	19
District I 1625 N. French District II						f New Mex s and Natura			Revis		Form C-14 ctober 10, 200
1301 W. Grand District III			•	Oil C	Conse	rvation Div	vision		Submit 2 Co	pies t	o appropria
1000 Rio Brazo District IV						th St. Franc			District Of with	ffice i Rule	in accordance 116 on bac
1220 S. St. Fran	cis Dr., Santa	a Fe, NM 8750	5	<u>/ Sa</u>	inta I	e, NM 875	05				side of for
			Rel	ease Notific	atio	on and Co	orrective A	ction			
<u> </u>						OPERA'		X Initia	al Report		Final Rep
		Mary Land				a second s	nna Huddleston	200	<u></u>		
		Street, Bldg.		<u>00 Midland, , T</u> 7	<u>X</u>	Facility Typ	No. (432)688-1'	/89			
		<u>j 2010/(00.0</u>						17	······································		
Surface Ow	ner BLIVI			Mineral C	Jwner	BLM		Lease M	<u>.</u>	<u> </u>	
	······		·····			N OF RE					
Unit Letter	Section	Township	Range	Feet from the	Nort	h/South Line	Feet from the	East/West Line	County		
G	35	198	29E								
•			I.a	titude		Longitud	A		-,		
			<u>L</u> M								
Type of Rele	ase Produ	ced Water		IVA I	UKI	C OF RELI	Release 35 bbls	Volume F	Recovered 8 b	hle	
		connect inj.	ine to we	ellhead				e12/27/09ate and			12/27/09
Was Immedi	ate Notice (Vac F] No 🔲 Not Re	aulea	If YES, To			T N 4		
D. 117	D'11 TT.							Jim Amos W/ B	LIVI		
By Whom? Was a Water				**************************************			our 12/27/09 Jume Impacting t				
			Yes 🛛] No			inanio inipaoning i				
If a Watercou	urse was Im	pacted, Descr	ibe Fully.	*		L			***********************************		
		-									
		em and Reme			1 5 1.						
Hose has be	en replace	ed. Picked u	p 8 bbls	connecting injec of produced wate	tion la	iteral line to v	vellhead for inje	ection.			
		and Cleanup									
Spill Area (Picked up 8	on location bbls of pr	n): 80' x 100 oduced wate	' = 8000	sq. ft.Spill Area tified Tetra-Tech	(off lo i Envi	cation): 2' x romental serv	140' = 280 sq. ft ices to remediat	e spill area.			
-	-			ith fresh soil.				o spin u vu.			
•				•	lete to	the best of my	knowledge and w	nderstand that purs	want to NRAO	CDm	lesand
regulations a	ll operators	are required t	o report a	nd/or file certain re	elease	notifications ar	id perform correct	tive actions for rele	ases which m	nay en	ndanger
public health	or the envi	ronment. The	acceptan	ce of a C-141 repo	rt by t	he NMOCD m	arked as "Final R	eport" does not reli	eve the operat	tor of	liability
should their of	operations homent. In a	ave failed to a	adequately CD accer	investigate and representation of a C-1411	emedia	te contamination does not relieve	on that pose a three the operator of r	eat to ground water responsibility for co	, surface wate	r, hur h anv	man health
federal, state,	, or local la	ws and/or regi	ilations.				- 			·	<u> </u>
	A.	1		A (OIL CONS	SERVATION	DIVISION	1	
Signature:	Von	w Al	idd	lista							
Printed Name	:Donna H	uddleston				Approved by	District Supervise	or:			
Title: Prod	uction Tec	:h				Approval Dat	e:	Expiration I	Date:		
D molt A data	الداد مطلم وهو	artan	ulond								
E-mail Addre	ss:unuaala	estonastmat	yland.co	113		Conditions of	Approval:		Attached		
Date: 12/29/				:(432)688-1789]	••••••••••••••••••••••••••••••••••••••	
Attach Addi	tional Shee	ets If Necess	ary								

	WAT	ter level					TER
LOCATION NUMBER	BELOW LAND SURFACE (feet)	DATE OF MEASUREMENT	YIELD (g.p.m.)	METHOD OF LIFT	USE OF WATER	REMARES	
20.28.36.140	19.1 91.9	Dec. 27, 1948	~~	W	S		
20.29.3.433	91.9	Dec. 13, 1948	- · ·	w	·· S ··	See analysis, Table 3.	ED
20.30.3.223	6.0	Dec. 23, 1948		W	5 5 5 5 m 2 m	do.	E
3.424	8.5	do.		w	S	do.	Ř
5.310	3.5	do.	-	w	S		0
16.420	29.9	May 1, 1950	-	Ŵ	ŝ	See analysis, Table 3.	ö
20.120	29.3	Dec. 22, 1948	5 E.	Ŵ	D	Depth to water measured while pumping.	3
20.130	45.3	do.		W	Ď	do. See analysis, Table 3.	3
33.440	203.8	Dec. 27, 1948		W	ŝ	See analysis, Table 3.	7
20.31.13.440	45	Dec. 22, 1948	4 E.	W	Š	do.	
15.130	63.1	do.	-	w	š		
16.240	61.2	do.	· 1 E.	Ŵ	Š	Depth to water measured while pump- ing. See analysis, Table 3.	
21.21.7.440	1,100	-	-	w	D & S	0 1 ·	
36.213	942	-	-	w	S	Driller: T. Hillyer.	

See explanation at beginning of table.

	<u> </u>	de		Ħ	:1	0012911										-										_		
An	alvs	sis F	?e	: O	IU	est of Ch	ain of Custod	vF	Re	C:	0	rd									PAC	GE:		Ĺ		OF:	7	
			7	_		<u>ר ייי</u>		<u> </u>		_				-				(C				i REC ify N			i o.)			
					R	J Midland, Tex	Spring St.								15 (Ext. to C35)	d Cr Pb Hg Se	Cd Vr Pd Hg Se									TDS		
CLIENT NA						SITE MANAGE	R: T	ERS	Π	Pf		ERV/	ATIVE	1	¥ X	Ba	Ba C			0/624	0/625					E		
57 M PROJECT N 1141-6	10113 10.: 4004	19	PF	24 201	ECT	NAME: H St Marys /Parl	Tovary Z way Delaware Unit 507	F CONTAIN	ÎN X	T		Τ	<u> </u>		8015 MOD. TX1005	als Ag As	als Ag As	iles Volatiles		. 8240/826	ni. Vol. 82	809		Ŝ.	stos)	ns/Cation		
LAB I.D. NUMBER	DATE	TIME			GRAB		LE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	ΗCΓ	HN03	ŪE	NONE		170H 801	RCRA Met	TCLP Met	TCLP Volatiles	RCI	GC.MS Vol. 8240/8260/824	GC.MS Semi. Vol. 8270/625	PCB's 8080/60 Pest. 808/609	Chloride	Gamma Spec.	Alpha Beta (Air) Pl M (Ashestos)	Major Aniona/Cations,		
221081	725		3		X	AH- 1	0 - 1'	1				X			X								X					
082			[(AH- 1	1-1.5																1					
083						AH-2 (p-1'					\prod			x													
084			\prod			AH-Z 1	-1.5'					\square																
৩চ্চ					Ц	AH-2 2	-z.5'					\prod																
086			[]			AH-3 0	- 1					Ш			X								$\ $					
087						AH-3 1-	1.5'					Л											$\ $					
088			\prod			AH- 3 1.5	·- Z	_]/				Д																
089			\square			AH-4 0	-1'					\mathbb{T}			<u>×</u>								\prod					
090	w		4		\$		-1.5	*			ŀ	1											4			\square		
RELINQUISHED		164	P	2		Date: 1/20/10 Time: 11.0 Date:	BECEIVED BY: (Signature)			Tîn Da			110		_		LE SH	3Y: (Pri			<u>ןדנ</u>	26	, ,		Date Time IRBIL		<u></u>	<u>//</u>
RELINQUISHED	BY: (Signatur	e)				Date:	RECEIVED BY: (Signature)			Da	ne: _				-	CAN	D DE	LIVER H CON		VP:	S				THER	t: lesults l	by:	
RECEIVING LAP ADDRESS: CITY:	11.1	71	RL?	TX _	HON	ZIP:	RECEIVED BY: (Signature)	 	иE:						-	I	1/10	7	a va	~~	Z					USH C uthoriz Yes		No
SAMPLE COND	ITION WHEN	RECEIVED:		-		T DEMARKS	eeds 1,000 mg /kg run c			tem	phe	<u></u>	ŗ?"	n .	jo E	TE.	×	w/ .	ligh	ter	TI	•H				_ <u>_</u>		

•

Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.

	Or	der	+	E	<u>' </u>	0012911																					
Ar	nalys	sis F	{e	eq	u	est of Cha	ain of Custod	ly F	Re	С	or	d	-							PAC		Z		OF	F:	7	
			1														(C				REC ify M			.)			
			l		R		Spring St. :a s 79705 :Fax (432) 682-3946							05 (Ext. to C35)		d Vr Pd Hg Se	TCLP Volatiles								pH. TDS		
						SITE MANAGE	R: Taraana 7	ERS	Π			NATIV	E	TX100					0/624	0/625							
57 M PROJECT N 1141-6	10.: 10.: 1004	19	PF	10J	ECT	NAME: H St Marys /Park	Tovare 7 Navy Delaware Unit 507 PM	F CONTAIN	(N/X)					6 MOD.		als Ag As ads Ag As	files		. 8240/826	m. Vol. 827	808		l (Air)	stos)	ns/Cations		
LAB I.D. NUMBER	DATE ZO10	TIME	MATHIX		GRAB		E IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED	HND3	ICE	NONE	RTEX R021	TPH 8015 MOD. TX1005	PAH 8270	TCLP Met	TCLP Volat	RCI	GC.MS Vol	GC.MS Set	Puers suer Pest. 808/6	Chioride	Alpha Beta (Air)	PLM (Asbe	Major Aniona/Cations,		
221091	1/25		3		X	Au- 4 /	,5'-z'	1			X	1 1										X		\Box			
092			K		(AH- 5	0-1				1		·	X													
693						AH-5					Ц													Ш			
094			\prod		\square	AH-5 2	-2.5				Ш													Ш			
095			\square		\downarrow	AH-C	<u> </u>	\parallel			Ц			X			Ш					Ш					
096						AH- C			Ш		Ш													\square		\square	\square
097					\square	AH-6 Z					\square											[]		\square		╨	_
098		:	\prod		\prod	AH-C 3'	3.5'	_1/			Щ											<u>)</u>]			⊢∔-		$ \downarrow$
099			\square				-1				\Box			X								Ы		Ц	┝╍╋╸		
100	÷	L	4		∳		1.5	4				1										*		Ц	J.		
RELINQUISHED		100	2	2		Date: //29/10 Time: ///D Date: Time:	RECEIVED BY: (Signature) RECEIVED BY: (Signature)			Dete Tim Date Tim	×	16:	10		SAN		BY: (Pr HIPPE			<u>דל</u> •)	<i>R</i> (-	<u> </u>	7 AIR	ime: BILL é			
RELINQUISHED) BY: (Signatur	ne)				Date:	RECEIVED BY: (Signature)			Date Time	:				Ø	ND D	LIVER	_	> UP	s			OTI	HER: _	ults by		
RECEIVING LAB ADDRESS:		Ti STATE:	&L1	TX.	IONI	ZIP;	RECEIVED BY: (Signature)	 	ME:						1	Ţ þ.	, 7	Tava	2 √~ €	Ł				Aut	SH Cha horized Yes	d:	No
SAMPLE COND	ATTON WHEN		1			00114010	erds 1,000 mg/kg run			amj	45	j	2.	10	<u>13</u> 7	EX	w/	Ligh	lest	TI	PH			<u>ــــــ</u>			

•

	Drd	er =	#	.' \	0	012911									من الا			فننى يسم					an di si da si		ومناور				
An							ain of Custoc	iv I	Re))	:0	rc	ł								PAC			3		OF		7	
			7											1				(C			LYSIS Spec				No.)				,
					5	1910 N. Big Midland, Te									15 (Ext. to C35)	d Cr Pb Hg Se	Cd Vr Pd Hg Se									the second se	3		
CLIENT NAM						SITE MANAG	ER:	SERS		Ρ		ERV	ATIVE		1X100	Ba C	Ba C			0/624	0/625						i		
57 A PROJECT N 1141-6	10:13 10:1 1004	19	PF	SOJE	CT	NAME: H St Marys /Par	EA: Tovarez kway Delawore Unit 507 , NM	NUMBER OF CONTAINERS	(N/N)					BTEX 8021B)	6 MOD.	ats Ag As	als Ag As	tiles 11-1-1-11-2		1. 8240/826	mi. Vol. 82	0/608 608		DBC.	a (Air)	PLM (Asbestos)	Jie/vauv.		
LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP	GRAB	Eddy (8 SAMF	PLE IDENTIFICATION	NUMBER O	FILTERED (Y/N)	HCL	EONH	ICE	NONE	BTEX 8021	TPH 801	RCRA Met	TCLP Metals Ag As Ba C	TCLP Volatiles	RCI	GC.MS Vo	GC.MS Semi. Vol. 8270/625	PCB's 808	Chloride	Gamma Spec.	Alpha Bet	PLM (Asb	inter antipia		
221101	1/25		3		X	AH- 7	2-2,5	1				X											X			Ι			
102	(K		(AH- 7	2-2,5' 2,5'-3'					[
103						AH - 8	0 - 1					\int			X														
104			\prod		\prod	AH-8	1'-15'																						
105					\prod	AH-8	2'- 2.5'																					Ц	
106			[]		\mathbb{I}	AH - 9	0 -)					Δ			X									\square					
107					\square	AH- 9	1-1.5					$\overline{1}$												\square					\bot
108			\prod		\prod	AH- 9	2'-2.5'	/				[
109			\square		\prod	AH - 10	0 - 1								X													Ц	
110	4		4		€	AH- 10	1-15	4				*																	
RELINQUISHED		AR	\$			Date: 1/28/10 Time: 1610	BEGETVED BY: (Signature)			Π	-	14	1/20	~79				3Y: (Pr 11PPE1			37	Z	<u>'7</u>		Tim	19:		5776	
RELINQUISHED						Date: Time:	AECEIVED BY: (Signature)			Π	ate: Ime:				`	FED	EX_	LIVER	-	BŲ	IS				AIRBI OTHE				
RELINQUISHED		-	£41			Date: Time:	RECEIVED BY: (Signature)				ate: me:				- - =	ETR	A TEC	H CO	VTAC	T PE	RSON:				_		ts by:		
ADDRESS:	diand	STATE:		7	ONE	ZIP:	DATE:	π	IME:						-	I	10	7	a va	er e	E				ŀ	Autho	(Char vrized; es	gies N	ia ia
SAMPLE COND		RECEIVED:	24			1	scords 1,000 mg/kg run			sor	nph	5	R) M	10 1	3 Te	. x	w/	high	lest	TI	PH							

.

٠

٨						<u>10012911</u>	ain of Custoo	4	5,	~~		-	4	T	<u>مەرەلە ئەرە</u>						PAG	E:	4	1		OF:		7
	larys			4					זר	-0	.0			┦				(C			YSIS Speci				o.)			
			Ľ		t	TETRA 1910 N. Big Midland, Tex (432) 682-4559	Spring St.							- E - 1	5 (Ext. to C35)	Cr Pb Hg	Pd >									DS		
							R:	8		P		ERV	ATIVE	1	8 8	N N N N N N N N N N N N N N N N N N N	Ba Cd)/824	0/625					, pH. 1		
<u>م ب</u> PROJECT I 1141-6	10:1004	19	PR	OJE	CT	NAME: K St Marys / Park	Tovarez way Delawore Unit 507 PM	CONTAIN	R						MOD.	Ag As	i Ag As	18 Olatilea		240/826(Vol. 827				(1) (SO	/Catlons		
LAB I.D. NUMBER	DATE		MATRIX	COMP.	GHAB		E IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	ЧСГ	HN03	ICE	NONE	BTEX 8021B	TPH 8015	RCRA Metal	TCLP Metal	TCLP Volatile	RCI	GC.MS Vol. 8	GC.MS Semi. Vol. 8270/625 DCB's 8090/508	Pest. 808/60	Chloride)	Gamma Spe	Alpha Beta (/ PLM (Asbest	Major Aniona/Cations, pH, TDS		
221111	1/25		3	ŀ	X	A4- 11	0-1	1				X			X	T			T			Γ	X				\square	
12	($\left[\right]$		$\langle $	AH- 11	1-1.5	Π				[T	Τ	Π	Τ	Τ	Γ		Τ	Π		T		Π	
113						AH-11	2-2.5					\int											Π					
114			$\left \right $			AH-11	3'- 3,5'					Ι				Τ							Π					
115					\prod	AH- 12	0-1	1				$\left[\right]$			X							Ι					\Box	
Ille					$\ $	AH - 12	1-1.5					Π																
117					\square	AH- 12	2'-2.5'					\setminus																
118					$\left \right $	AH- 12	3'-3.5']/																				
119			\square		$\left \right $	AH - 12	4-4.5																					
120	4		4		€	AH- 13	0-1	Y	7			1			X													
RELINQUISHE		14	3			Date: 1/29/10 Tume: 1 6 Date:	RECEIVED BY: (Signature)			n D	ate: me: ate: me:		16:1	10 0	_		LE SF	IY: (Pri			<u>דר</u>	<i>Z(</i> -	<u>, </u>		Time IRBIL	L #:	725	
RELINQUISHE			<u></u>			Date:	RECEIVED BY: (Signature)			D	ate: me:				=_ _ =_	CAN	D DE	IVERI H CON		VP	5				THEF	esults	by:	
ADDRESS:	d land	STATE:	807 7	2	ONE	ZIP:	RECEIVED BY: (Signature)		IME:						-	I	1/10	7	a va	~~	Ł				R A	USH (uthort Yes		85 No

•

A					+:100120							- T						_		PAG	E:			(OF:	7	
Analy	SIS I	46)C	<u>1</u>	est of Ch	ain of Custoc	IY F	۲e	CC	or	a	┢								SIS		UES	т				*****
				I	Midland, Te	Spring St.							5 (Ext. to C35)		I Cr Pb Hg Se									T	SO		
CLIENT NAME:					SITE MANAG	ER:	SH SH	Π			VATIVI		D01X1		888	5			0/624	0/625					Ŧ		
57 Mary - PROJECT NO.: 1141-6400	5 419	PI	RO.	JEC	NAME:	Tovarez kway Delawure Unit 507	ONTAIN	Î		T		-	BOIE MOD. TX1005		Ag As	₹ ₹	olatiles		240/826	Vol. 827 08				F (8)	/Cations		
LAB I.D. NUMBER	TIME	MATRIX	COMP	GRAB	Eddy (0, SAMF		NUMBER OF CONTAINERS	FILTERED (Y/N)	HUG	ICE	NONE	BTEV 00110	TPH 8015 MOD. TX1005	PAH 8270	RCRA Metals	TCLP Volatile	TCLP Semi Vo	RCI	GC.MS Vol. 8	GC.MS Semi. PCB's 8080/6	Pest. 808/608	Chloride	Gamma Spec	Alpha bera (A PLM (Asbesto	Major Anions/Cations, pH, TDS		
221121 /25		3		X	AH- 13	1-1.5'	1		T	X			Ĩ	Π	T					T	Τ	X			\Box		
122 ($\ $		K	AH- 13	2'-2,5'				1																	
123					AH- 13	3'-3.5'				$\ $																	
124		Ц		\parallel	AH-13	21'-21,5'				\prod																	
125				Ц	AH- 13	5'- 5.5'				Ц																	
126		\parallel		\prod	AH- 13	6- 6.5				\prod												Ц					Ш
127		1		Ц.	AH- 14	0-1	_Ц	Ш		Ц			X									Ц					
128		Щ		Ц	AH- 14	1'- 1.5'	/			\parallel																	
129/		\square		Ц	AH - 15	0-1	Π			\square			X														
130 1		4		4	AH- 15,	1 -1.5	*			1																	
RELINQUISHED BY: (Sign	A	5	_		Date: 1/46/10 Time: 16/0 Date:	RECEIVED BY: (Signature)			Date: Time Date:		16!1	5	۹ ۲ 	SAN		SHIP	(Print	97: (C	ircle)	1	ZG		_	Time	×// × L #:	-	
RELINQUISHED BY: (Sign	ature)				Time: Date: Time:	RECEIVED BY: (Signature)			Time Date: Time					6	AND I	DELIN	CONT	\geq		ON:			0	THER	esults	by:	
RECEIVING LABORATOR	r:	THECT			ZIP;	RECEIVED BY: (Signature)									τŀ		_		~~;					Ŕ	USH C uthorb	harge red:	s
CONTACT:			_	PHON		DATE:		ME: _						I											Yes		No

An					#:100129	ain of Custo	1v F	20	C	r	1							PA	GE		6		OF:		7
	<u></u>		<u> </u>		5							-				(Cii	AN/ cle o	ALYSI r Spe	-			No.)			
			Ľ		1910 N. Big Midland, Te	TECH Spring St. xas 79705 • Fax (432) 682-3946							5 (Ext. to C35)	Cr Pb Ha Se	Cd Vr Pd Hg Se								SQ		
LIENT NAM					SITE MANAG	ER:	ŝ	Π			VATIVE		8015 MOD. TX1005	Sa Co	Ba Co			0/825					H		
St M	<u>erys</u> D.:		PRC	OJEC	TNAME:	Tovary Z kway Delaware Unit 507				NETH		-		As	As	tiles	0000	1. 827					ations		
1121-6	10041	9	×		H St Marys / Var	kway Delaware Unit 307	- Lo	Ĩ				6	5 M	als Ac	als A(i Vola		Mi K	9/608	88	, lä	Ai	Due/C		
LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP: GRAB	1	PLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED	HNO3	UE E	NONE	BTEX 8021B)	108 HdT	PAH 8270 RCRA Met	TCLP Met	TCLP Sem	RCI	GC.MIS VOI. 8240/8260/624 GC.MIS Semi. Vol. 8270/825	PCB's 808	Pest. 808/	Gamma Si	Alpha Beta (Air)	run (radescus) Major Anions/Cations, pH, TDS		
21131			3	X	AH- 15	z'-z,5'	1			X			\square							Ţ	$\langle $				
132	$\left(\right)$		[]	(AH- 12	0-1	(1			X		Π										
133					AH- IL	1-1.5				\prod															
134			Щ	Щ	AH-IL	2'-2.5'				\parallel				_											
135					AH-IL	3'-35'	($\downarrow\downarrow$					\downarrow						<u> </u>				\downarrow
186			/	\downarrow	AH- 17	0-1			_	Щ.			X							(4				\bot
137					AH- 17	1-1.5'	[]		_	44		_	┞┨					_			\ _		_	4	+
138	_/				AH- 17	2-2.5	//			4			┠╌┠	_	┦┦	\downarrow	┞┼	+-	$\left - \right $		4-		+		+
139	-		$ \rangle$		AH - 17	3-35					 				┨╌╽	_	┞┼								+-
140 Elinquished	BY: (Signature		4	1	AH 18 Date: 1/28/10	0 - 1 RECEIVED BY: (Signature)	1		Date		225	/0	X	SAME		C (Prir	t & Initi	lal)	Ļ			Det		37	4-
LINQUISHED		Un 9	\sim		Time: 1610 Date:	RECEIVED BY: (Signature)			Time Date Time	·	16:	10			LESH		BY: (Ci	7	72	:6		Tîm AIRBI			
UNQUISHED	BY: (Signature	ə)			Date:	RECEIVED BY: (Signature)			Date Time	·			╧┥	EAJ	ID DEL			JPS	N:			OTHE	R: Results	by:	
DRESS:		STATE	94 7)	K	ZIP:	RECEIVED BY: (Signature)	·····						_	I	.]er		- • va v						iUSH C wthort	harges ed:	;

1

٠

						<u>#</u>																		PAG	E.		7		OF:		
Analysis Request of Chain of Custody Record													<u> </u>	(Cir		ALY	SIS peci	REC			 o.)										
					Ą	191 191 Mid	0 N. E lland,	Big S Texa	TECH pring St. as 79705 Fax (432) 682-39	46							5 (Ext. to C35)	I	o [:	A Pd Hg									Sa		
CLIENT NAM						Sn	TE MAN	AGER	i i i i i i i i i i i i i i i i i i i		ERS	Π			TVATI		DX100		Ba Cd	5			0/624	70/625					9. pH. 1		
5+ Mary 5 PROJECT NO .: 114-6400419				PROJECT NAME: S' THE Mary S / Parkway De lawore Unit 507 Eddy Co, NM							CONTAIN	N.	-		П	MOD. TX1005		s Ag As	s Ag As	(olatiles		3240/826	. Vol. 82 808				(10)	doi:</td <td></td> <td></td>			
LAB I.D. NUMBER	DATE ZoiO	TIME	MATRIX	COMP:	GRAB	E	Stary ((° , 1 MPLE	IDENTIFICATION	1	NUMBER OF CONTAINERS	FILTERED (Y/N)	HNO3	B	NONE		BTEX 80218 TPH 8015	PAH 8270	RCRA Metal	TCLP Volatile	TCLP Semi V	RCI	GC.MS Vol. 8	GC.MS Semi, Vol. 8270/625 PCB's 8080/608	Pest. 808/60	Chloride	Gamma Spe	PLM (Asbestos)	Major Anions/Cations, pH, TDS		
22/14/1	1/25		3		X	AH-	18		1-1.5		1			7	1			Ť		T	T	Π			T	X		T	Π	T	\prod
142	$\left(\right)$		K		$\left \left\langle \right.\right\rangle$	AH-	18		z'-z, 5'		1	Π	Τ	17	T		Π			T	T	Π		T	T	X		T	Π	T	Π
					\prod	۰ .					Π	Π	T	Π	Τ		T			T		Π			Τ	Π		T	Π	T	T
			\prod		Π	A					Π		T	17						T				T	T		T	T	Π	T	Π
			Π		$\left[\right]$				₩₩₩ <u>₩₩₩₩</u> ₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩		1		Τ	Π				T		T	Π			T	T			T	\prod	T	Π
			17		\prod	····	Ring-Anti-Anti-Anti-Anti-Anti-Anti-Anti-Anti							17						T	Π			T	T			T	Π	T	Π
			Π		Π					<u> </u>	T		T	Π	T					T	Π			T				T	Π	T	Π
			\prod		\prod				······································		17	Π	T	17	T				Τ	T	Π			T			T	Τ	Π	T	Π
	7		\prod		\prod						Π	Π	Τ	Τ	<u>\</u>		Τ			T				Τ	Τ				\prod		
	Y		4		¢	Arr					V		T																		
RELINQUISHED		dri)	1	5	-		18/10 1. [D		RECEIVED BY: (Signati				Date Time	;	1/2	-8/	/0		MPLE					1-1	ZG)		Date: Time		25/	75
RELINQUISHED BY: (Signature) Date: REDETIVED BY: (Signature) Time:									Date: Time:						SAMPLE SHIPPED BY: (Circle) AIRBILL #: FEDEX BUS OTHER:												,				
RELINQUISHED BY: (Signature) Date:						-	Date: Time:							TETRA TECH CONTACT PERSON:										Results by:							
RECEIVING LABORATORY: Trect ADDRESS:									·		I le Tavarez AUSH Charges Authorized: Yes No											No									
	١	RECEIVED:	 				KS: I TPI		eds 1,000 mg	, Jung run a	_		samp	45		j?ur	, , ,	>B	TEX	 14	11	igh.	•••	TP	H						