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ncident - pPAC0715050235 plucation - pPAC0715050235 Phone: 505-396-4414 DURANT FINAL (C. HI DI SUPPORT DURANTITION 54 Approved for Beekfull - ppH-137 Supported for Beekful	-mail Addres	is: pminche	w(a)chevron.c	com			Conditions of Approval:	<i>и</i> ()		Attached 🗆 🕺	
ncidend - nPAC071505013/ plication - pPAC0715050235 [Approved for Beeckfull] = PPH-139: Sword Construction - pPAC0715050235 [Sword Construction - pPAC0715050235] NMOCD-Holder	ttach Additi	onal Shee	ts If Necessa	Pl ury	none: 505-396-4414	<u></u>	AUBMIT HINAL (.	MIW	e e		
NNICCI)-HOUUZ	ncid	level	- pPA pPA	Cone	505013/ 5050235	-2 /	Approved for Seoffreyteking Enr. Engr.	Belchfu S		RP# 139:	
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Table 1 CHEVRON USA LPU #139 Lea County, New Mexico

Sample	Sample Sample		Depth	Soi	l Status	TP	H (mg/l	kg)	Benzene	Toluene	Ethlybenzene	Xylene	Chloride
ID	Date	Depth (ft)	(BEB)	In-Situ	Removed	oved GRO DRO Total ^{(m}		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
AH-1	7/16/2010	0-6"		х		<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<200
AH-2	7/16/2010	0-6"		х		<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<200

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Excavated material

Table 2 CHEVRON USA LPU #139 Lea County, New Mexico

.

Sample Sample		Sample	Depth	Soi	l Status	TP	H (mg/l	kg)	Benzene	Toluene	Ethlybenzene	Xylene	Chloride
ID	Date	Depth (ft)	(BEB)	In-Situ	Removed	GRO	O DRO Total (mg/kg) (mg/kg)		(mg/kg)	(mg/kg)	(mg/kg)		
T-1	8/18/2010	1-1.5'		х		-	-	-	-	-	-	-	<200
							<u> </u>						
T-2	8/18/2010	1-1.5'		х		-	-	-	-	-	-	-	<200

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Report Date: July 21, 2010

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Summary Report

Ike Tavarez Tetra Tech 1910 N. Big Spring Street Midland, TX 79705

Report Date: July 21, 2010

Work Order: 10071920

Project Location:Lea County, NMProject Name:LPU #139Project Number:114-6400598

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
238024	AH-1 0-6in.	soil	2010-07-16	00:00	2010-07-19
238025	AH-2 0-6in.	soil	2010-07-16	00:00	2010-07-19

			BTEX	TPH DRO - NEW	TPH GRO	
	Benzene	Toluene	Ethylbenzene	DRO	GRO	
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
238024 - AH-1 0-6in.	< 0.0200	< 0.0200	< 0.0200	< 0.0200	<50.0	<2.00
238025 - AH-2 0-6in.	< 0.0200	< 0.0200	< 0.0200	< 0.0200	<50.0	<2.00

Sample: 238024 - AH-1 0-6in.

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00

Sample: 238025 - AH-2 0-6in.

Param	Flag	\mathbf{Result}	Units	\mathbf{RL}
Chloride		<200	mg/Kg	4.00

TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296 This is only a summary. Please, refer to the complete report package for quality control data.

		RACEANA	LYSIS,	INC		÷~.
Г	701 Aberdeen Avenue, Suite 9	Lubbock Texas 79424	800•378•1296	806 • 794 • 1296	FAX 806 • 794 • 1298	

6701 Aberdeen Avenue, Suite 9 200 East Sunset Road, Suite E 5002 Basin Street, Suite A1 6015 Harris Parkway, Suite 110

Lubbock, Texas 79424 El Paso, Texas 79922 888•588•3443 Midiand, Texas 79703 Ft. Worth Texas 76132 E-Mail lab/@traceanalysis.com

806 • 794 • 1296 915•585•3443 432•689•6301 817 • 201 • 5260

FAX 806 • 794 • 1298 FAX 915 • 535 • 4944 FAX 432•689•6313

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HUB: 1752439743100-86536 **NCTRCA** WFWB38444Y0909

Certifications

DBE: VN 20657

NELAP Certifications

Lubbock: T104704219-08-TX LELAP-02003 Kansas E-10317

El Paso: T104704221-08-TX LELAP-02002

T104704392-08-TX Midland:

Analytical and Quality Control Report

Ike Tavarez Tetra Tech 1910 N. Big Spring Street Midland, TX, 79705

Report Date: July 21, 2010

Work Order: 10071920

Project Location: Lea County, NM **Project Name:** LPU #139 114-6400598 **Project Number:**

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
238024	AH-1 0-6in.	soil	2010-07-16	00:00	2010-07-19
238025	AH-2 0-6in.	soil	2010-07-16	00:00	2010-07-19

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 13 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael april

Dr. Blair Leftwich, Director Dr. Michael Abel, Project Manager

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 ${\bf B}\,$ - The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project LPU #139 were received by TraceAnalysis, Inc. on 2010-07-19 and assigned to work order 10071920. Samples for work order 10071920 were received intact at a temperature of 3.3 C.

Samples were analyzed for the following tests using their respective methods.

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		Prep	Prep	\mathbf{QC}	Analysis
Test	Method	Batch	Date	Batch	Date
BTEX	S 8021B	61608	2010-07-19 at 16:00	71924	2010-07-20 at 11:02
Chloride (Titration)	SM 4500-Cl B	61620	2010-07-20 at 08:52	71896	2010-07-20 at 11:56
TPH DRO - NEW	S 8015 D	61592	2010-07-19 at 14:30	71873	2010-07-19 at 14:30
TPH GRO	S 8015 D	61608	2010-07-19 at 16:00	71925	2010-07-20 at 11:29

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 10071920 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

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Analytical Report

Sample: 238024 - AH-1 0-6in.

Laboratory: Midl Analysis: BTE QC Batch: 7192 Prep Batch: 6160	and XX 4 8		Analytical I Date Analy Sample Pre	Method: zed: paration:	S 8021B 2010-07-20 2010-07-19		Prep Met Analyzed Prepared	hod: S 5035 By: AG By: AG
			\mathbf{RL}					
Parameter	Flag		Result		Units	I	Dilution	\mathbf{RL}
Benzene			< 0.0200		mg/Kg		1	0.0200
Toluene			< 0.0200		mg/Kg		1	0.0200
Ethylbenzene			< 0.0200		mg/Kg		1	0.0200
Xylene			< 0.0200		mg/Kg		1	0.0200
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (T	YFT)	-	2.42	mg/Kg	1	2.00	121	52.8 - 137
4-Bromofluorobenz	ene (4-BFB)		2.47	mg/Kg	1	2.00	124	38.4 - 157

Sample: 238024 - AH-1 0-6in.

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 71896 61620	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2010-07-20 2010-07-20	Prep Method: Analyzed By: Prepared By:	N/A AR AR
		RL			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		<200	mg/Kg	50	4.00

Sample: 238024 - AH-1 0-6in.

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DRO - NEW 71873 61592	Analytical Me Date Analyzed Sample Prepar	thod: S 8015 D l: 2010-07-19 ration: 2010-07-19	Prep Method: Analyzed By: Prepared By:	N/A kg kg
_		RL			
Parameter	Flag	Result	Units	Dilution	RL
DRO		<50.0	mg/Kg	1	50.0

Report Date 114-6400598	: July 21, 201	0	Work Order: 10071920 LPU #139				Page Nu Le	umber: 5 of 13 a County, NM
Surrogate	Flag	Result	Units	Dil	ution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		104	mg/Kg		1	100	104	70 - 130
Sample: 23	8024 AH-1	0-6in						
Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH GRO 71925 61608	0-0111.	Analytical Date Anal Sample Pi	l Method: lyzed: reparation	S 8015 D 2010-07-20 2010-07-19)	Prep Met Analyzed Prepared	hod: S 5035 By: AG By: AG
Durant			RL		TI:+-		Dilution	DI
Parameter CRO		r lag	~ 2.00		UIIIIS		1	<u> </u>
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu	ene (TFT)		2.82	mg/Kg	1	2.00	141	48.5 - 152
4-Bromonuol	robenzene (4-1	or b)	2.10	ing/ Kg	I	2.00	135	42 - 139
Sample: 23	8025 - AH-2	0-6in.						
Laboratory: Analysis: OC Batch:	Midland BTEX 71924		Analytical I Date Analy	Method:	S 8021B		Prep Met	hod: S 5035 By: ΔG
Prep Batch:	61608		Sample Pre	paration:	2010-07-19		Prepared	By: AG
1100 200000	01000		RI	F			1 10000100	29
Parameter		Flag	Result		Units	I	Dilution	\mathbf{RL}
Benzene			< 0.0200		mg/Kg		1	0.0200
Toluene			< 0.0200	1	mg/Kg		1	0.0200
Ethylbenzen	e		< 0.0200	i	mg/Kg		1	0.0200
Xylene		·····	< 0.0200		mg/Kg		1	0.0200
Cump or to		171	Deralt	TT:+-		Spike	Percent	Recovery
Surrogate	one (TET)	r lag	nesuit	mg/Kg	Dilution	Amount	Kecovery	Limits
4-Bromofluo	robenzene (4-F	SFB)	0.943	mg/Kg	т Г	2.00	40 47	38.4 - 157
				0/5	I	<i>μ.</i> υυ	<u>_</u>	

Sample: 238025 - AH-2 0-6in.

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Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	71896	Date Analyzed:	2010-07-20	Analyzed By:	\mathbf{AR}
Prep Batch:	61620	Sample Preparation:	2010-07-20	Prepared By:	AR

¹SPECIAL-TFT is out of control limits due to an unknown anomaly. However, 4-BFB is within control limits and shows the method to be in control. \bullet

114-0400098	July 21, 2010)	Wo	rk Order: LPU #	10071920 139		Page Number: 6 Lea Count		
Parameter	F	Plag	RL Result		Units		Dilution		RL
Chloride			<200		mg/Kg		50		4.00
Sample: 238	8025 - AH-2	0-6in.							
Laboratory:	Midland								
Analysis:	TPH DRO -	NEW	Analy	tical Meth	od: S 801	5 D	Prep M	lethod:	N/A
QC Batch:	71873		Date .	Analyzed:	2010-0	07-19	Analyz	ed By:	kg
Prep Batch:	61592		Samp	le Prepara	tion: 2010-0	07-19	Prepar	еа ву:	кg
-	_		RL		** •				
Parameter	F	Flag	Result		Units		Dilution		RL
DRO			<50.0		mg/Kg		1		
						Spike	Percent	Re	covery
Surrogate	Flag	Result	Units	Dilu	tion	Amount	Recovery	L	imits
n-Tricosane		108	mg/Kg	-	L	100	108	70	- 130
Sample: 238	8025 - AH-2	0-6in.							
Sample: 238 Laboratory: Analysis: QC Batch: Prep Batch:	8025 - AH-2 Midland TPH GRO 71925 61608	0-6in.	Analytical Date Analy Sample Pro	Method: vzed: eparation:	S 8015 D 2010-07-20 2010-07-19	1 1	Prep Met Analyzed Prepared	bod: S By: A By: A	5 5035 AG AG
Sample: 238 Laboratory: Analysis: QC Batch: Prep Batch:	8025 - AH-2 Midland TPH GRO 71925 61608	0-6in.	Analytical Date Analy Sample Pro RL	Method: vzed: eparation:	S 8015 D 2010-07-20 2010-07-19) }	Prep Met Analyzed Prepared	bod: S By: A By: A	5 5035 AG AG
Sample: 238 Laboratory: Analysis: QC Batch: Prep Batch: Parameter	8025 - AH-2 Midland TPH GRO 71925 61608 F	0-6in.	Analytical Date Analy Sample Pro RL Result	Method: vzed: eparation:	S 8015 D 2010-07-20 2010-07-19 Units) .)	Prep Met Analyzed Prepared Dilution	bod: S By: A By: A	5 5035 AG AG
Sample: 238 Laboratory: Analysis: QC Batch: Prep Batch: Parameter GRO	8025 - AH-2 Midland TPH GRO 71925 61608 F	0-6in. Flag	Analytical Date Analy Sample Pro RL Result <2.00	Method: vzed: eparation:	S 8015 D 2010-07-20 2010-07-19 Units mg/Kg		Prep Met Analyzed Prepared Dilution 1	bod: S By: A By: A	5 5035 AG AG <u>RL</u> 2.00
Sample: 238 Laboratory: Analysis: QC Batch: Prep Batch: Parameter GRO	8025 - AH-2 Midland TPH GRO 71925 61608 F	0-6in. Flag	Analytical Date Analy Sample Pro RL Result <2.00	Method: yzed: eparation:	S 8015 D 2010-07-20 2010-07-19 Units mg/Kg	Spike	Prep Met Analyzed Prepared Dilution 1 Percent Becovery	By: A By: A By: A	S 5035 AG AG <u>RL</u> 2.00 covery mits
Sample: 238 Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter GRO Surrogate Trifluorotolue	8025 - AH-2 Midland TPH GRO 71925 61608 F	0-6in. Flag Flag	Analytical Date Analy Sample Pro RL Result <2.00 Result 1.06	Method: yzed: eparation: Units mg/Kg	S 8015 D 2010-07-20 2010-07-19 Units mg/Kg Dilution	Spike Amount 2.00	Prep Met Analyzed Prepared Dilution 1 Percent Recovery 53	By: A By: A Rec Li 48.5	S 5035 AG AG 2.00 covery mits - 152
Sample: 238 Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluoro	8025 - AH-2 Midland TPH GRO 71925 61608 F ene (TFT) obenzene (4-B	0-6in. Flag Flag FB)	Analytical Date Analy Sample Pro RL Result <2.00 Result 1.06 1.05	Method: yzed: eparation: Units mg/Kg mg/Kg	S 8015 D 2010-07-20 2010-07-19 Units mg/Kg Dilution 1 1	Spike Amount 2.00 2.00	Prep Met Analyzed Prepared Dilution 1 Percent Recovery 53 52	Chod: 5 By: 4 By: 4 Rec Li 48.5 42	S 5035 AG AG 2.00 covery mits - 152 - 159
Sample: 238 Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: <u>Parameter</u> <u>GRO</u> <u>Surrogate</u> Trifluorotolue 4-Bromofluoro Method Bla QC Batch: Prep Batch:	8025 - AH-2 Midland TPH GRO 71925 61608 F ene (TFT) obenzene (4-B) obenzene (4-B) mk (1) Q 71873 61592	0-6in. Flag Flag FB) OC Batch: 71873	Analytical Date Analy Sample Pro RL Result <2.00 Result 1.06 1.05 Date Ana QC Prepa	Method: yzed: eparation: Units mg/Kg mg/Kg lyzed: 2 aration: 2	S 8015 D 2010-07-20 2010-07-19 Units mg/Kg Dilution 1 1 010-07-19 010-07-19	Spike Amount 2.00 2.00	Prep Met Analyzed Prepared Dilution 1 Percent Recovery 53 52 52 Analy Prepa	bhod: S By: A By: A Rec Li 48.5 42 vzed By:	S 5035 AG AG 2.00 covery mits - 152 - 159 : kg : kg
Sample: 238 Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter GRO Surrogate Trifluorotolue 4-Bromofluoro Method Bla QC Batch: Prep Batch:	8025 - AH-2 Midland TPH GRO 71925 61608 F me (TFT) obenzene (4-B) mk (1) Q 71873 61592	0-6in. Flag Flag FB) OC Batch: 71873	Analytical Date Analy Sample Pro RL Result <2.00 Result 1.06 1.05 Date Ana QC Prepa	Method: yzed: eparation: Units mg/Kg mg/Kg lyzed: 2 uration: 2 MDL	S 8015 D 2010-07-20 2010-07-19 Units mg/Kg Dilution 1 1 010-07-19 010-07-19	Spike Amount 2.00 2.00	Prep Met Analyzed Prepared Dilution 1 Percent Recovery 53 52 Analy Prepa	bhod: S By: A By: A Rec Li 48.5 42 vzed By vzed By:	S 5035 AG AG 2.00 covery mits - 152 - 159 : kg : kg
Sample: 238 Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: <u>Parameter</u> <u>GRO</u> Surrogate Trifluorotolue 4-Bromofluoro Method Bla QC Batch: Prep Batch: Prep Batch:	8025 - AH-2 Midland TPH GRO 71925 61608 F me (TFT) obenzene (4-B) mk (1) Q 71873 61592	0-6in. Flag Flag FB) OC Batch: 71873 Flag	Analytical Date Analy Sample Pro RL Result <2.00 Result 1.06 1.05 Date Ana QC Prepa	Method: yzed: eparation: Units mg/Kg mg/Kg lyzed: 2 aration: 2 MDL Result	S 8015 D 2010-07-20 2010-07-19 Units mg/Kg Dilution 1 1 010-07-19 010-07-19	Spike Amount 2.00 2.00 Un	Prep Met Analyzed Prepared Dilution 1 Percent Recovery 53 52 3 52 Analy Prepa	Rec Li 48.5 42 vzed By ared By:	S 5035 AG AG 2.00 20very mits 5 - 152 - 159 : kg : kg : kg : kg

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Report Date: July 114-6400598	y 21, 2010		We	ork Orde LPU	er: 100719 #139	920		Page Nu Lea	mber: ' a Count	7 of y, N
Surrogate	Flag	Result	Units	Ι	Dilution	A	Spike Amount	Percent Recovery	Rec Li	:ove mit;
n-Tricosane		103	mg/Kg		1		100	103	70	- 13
Method Blank ((1) Q(C Batch: 71896								
QC Batch: 718	96		Date Ana	lyzed:	2010-07	-20		Analyz	ed By:	A
Prep Batch: 616	20		QC Prepa	aration:	2010-07	-20		Prepar	ed By:	A
Parameter		Flag		MI Res	DL ult		Ur	nits		F
Chloride				<2	.18		mg	/Kg		
Method Blank ((1) Q(C Batch: 71924								
QC Batch: 719	24		Date Ana	lvzed:	2010-07	-20		Analyz	ed By:	А
Prep Batch: 616	08		QC Prepa	aration:	2010-07	-19		Prepar	ed By:	A
Parameter		Floo		n	MDL		ŦŢ	nita		т
Parameter Renzene		Flag		R	$\frac{10150}{10150}$		<u></u>	nits		<u>-1</u>
Toluene				<0.(.0100)0950		me	r/Kg		0.
Ethylbenzene				<0	.0106		mg	g/Kg		0.
Xylene				<0.0	00930		mg	g/Kg		0.
Surrogate		Flag	Result	Units	5 Di	lution	Spike Amount	Percent Recovery	Rec Lir	ove nits
Trifluorotoluene (ΓFT)		2.19	mg/K	g	1	2.00	110	66.6	- 1
4-Bromofluoroben	zene (4-BF	B)	2.18	mg/K	g	1	2.00	109	55.4	- 1
Method Blank ((1) Q(C Batch: 71925								
QC Batch: 719	25		Date Ana	lyzed:	2010-07	-20		Analyz	ed By:	A
Prep Batch: 616	98		QC Prepa	aration:	2010-07-	-19		Prepar	ed By:	A
Parameter		Flag		MI Resi)L alt		IIn	its		F
GRO		0		<1.	65		mg,	/Kg		
G auma ma t-		Dl	D 14	T T **	. D.	1. (*	Spike	Percent	Rec	ovei
Surrogate Trifluorotoluono (!	<u> </u>	Flag	Result	Units		iution	Amount	Recovery	Lir	nits
			2.05	11197/K	μ u		2181	137	n/ h	— F/

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			Work Orde LPU	er: 1007192 #139	20		Page M L	Number Lea Cou	: 8 of inty, N
Laboratory C	ontrol Spike (L	CS-1)							
QC Batch: 7 Prep Batch: 6	1873 1592	D Ç	ate Analyzed: C Preparation:	2010-07- 2010-07-	-19 -19		Ana Prej	lyzed E pared B	By: k By: k
Param		$\begin{array}{c} \mathrm{LCS} \\ \mathrm{Result} \end{array}$	Units	Dil.	Spike Amount	Matrix Result	Rec.	I	Rec. Limit
DRO		256	mg/Kg	1	250	<14.5	102	57.4	- 133
Percent recovery	y is based on the s	spike result. Rl	PD is based on	the spike a	nd spike d	uplicate res	sult.		
Param		LCSD Result U	Inits Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPI Lim
DRO		251 m	g/Kg 1	250	<14.5	100 57	.4 - 133.4	2	20
Percent recovery	y is based on the s	spike result. RI	PD is based on a	the spike a	and spike du	uplicate res	sult.		
Surrogate	LCS Result	$f LCSD \ Result$	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.		Rec. Limit
n-Tricosane	111	114	mg/Kg	1	100	111	114	,	70 - 13
									\sim AI
		LCS			Spike	Motr	iv		Roc
Param		$\begin{array}{c} \mathrm{LCS} \\ \mathrm{Result} \end{array}$	Units	Dil.	Spike Amount	Matr Resu	ix lt Rec		Rec.
Param Chloride		LCS Result 98.1	Units mg/Kg	Dil.	Spike Amount 100	Matr Resu <2.1	ix lt Rec 8 98		Rec. Limit 35 - 11
Param Chloride Percent recover	y is based on the s	LCS Result 98.1 spike result. RI	Units mg/Kg PD is based on t	Dil. 1 the spike a	Spike Amount 100 nd spike du	Matr Resu <2.1 iplicate res	ix lt Rec 8 98 ult.	8	Rec. Limit 35 - 11
Param Chloride Percent recover Param	y is based on the s	LCS Result 98.1 pike result. RI LCSD Result	Units mg/Kg PD is based on t Units Dil.	Dil. 1 the spike a Spike Amount	Spike Amount 100 nd spike du Matrix Besult	Matr Resu <2.1 iplicate res	ix <u>lt Rec</u> 8 98 ult. Rec. Limit	EPD	Rec. Limit 35 - 11 RP1 Lim
Param Chloride Percent recovery Param Chloride	y is based on the s	LCS Result 98.1 spike result. RI LCSD Result 100 n	Units mg/Kg PD is based on t Units Dil. ng/Kg 1	Dil. 1 the spike a Spike Amount 100	Spike Amount 100 nd spike du Matrix Result <2.18	Matr Resu <2.1 uplicate rest Rec. 100	ix <u>lt Rec</u> <u>8 98</u> ult. <u>Rec.</u> <u>Limit</u> <u>85 - 115</u>		Rec. Limit 35 - 11 RP1 Lim 20
Param Chloride Percent recover: Param Chloride Percent recover:	y is based on the s y is based on the s	LCS Result 98.1 spike result. RI LCSD Result 100 n spike result. RI	Units mg/Kg PD is based on t Units Dil. ng/Kg 1 PD is based on t	Dil. 1 the spike a Spike Amount 100 the spike a	Spike Amount 100 nd spike du Matrix Result <2.18 nd spike du	Matr Resu 22.1 aplicate resu Rec. 100 aplicate resu	ix lt Rec 8 98 ult. Rec. Limit 85 - 115 ult.	<u>RPD</u> 2	Rec. Limit 35 - 11 RP1 Lim 20
Param Chloride Percent recovery Param Chloride Percent recovery Laboratory Co	y is based on the s y is based on the s ontrol Spike (LC	LCS Result 98.1 spike result. RJ LCSD Result 100 n spike result. RI	Units mg/Kg PD is based on t Units Dil. ng/Kg 1 PD is based on t	Dil. 1 the spike a Spike Amount 100 the spike a	Spike Amount 100 nd spike du Matrix Result <2.18 nd spike du	Matr Resu <2.1 aplicate rest Rec. 100 aplicate rest	ix <u>lt Rec</u> <u>8 98</u> ult. <u>Rec.</u> <u>Limit</u> <u>85 - 115</u> ult.	<u>RPD</u> 2	Rec. Limit 35 - 11 RP1 Lim 20
Param Chloride Percent recovery Param Chloride Percent recovery Laboratory Co QC Batch: 7	y is based on the s y is based on the s ontrol Spike (LC 1924	LCS Result 98.1 spike result. RI LCSD Result 100 n spike result. RI CS-1)	Units mg/Kg PD is based on t Units Dil. ng/Kg 1 PD is based on t ate Analyzed:	Dil. 1 the spike a Spike Amount 100 the spike a 2010-07-2	Spike Amount 100 and spike du Matrix Result <2.18 nd spike du	Matr Resu 22.1 aplicate resu Rec. 100 aplicate resu	ix <u>lt Rec</u> <u>8 98</u> ult. <u>Rec.</u> <u>Limit</u> <u>85 - 115</u> ult. Analy	RPD 2 vzed By	Rec. Limit 35 - 1 RP Lim 20
Param Chloride Percent recovery Param Chloride Percent recovery Laboratory C QC Batch: 7 Prep Batch: 6	y is based on the s y is based on the s ontrol Spike (LC 1924 1608	LCS Result 98.1 spike result. RI LCSD Result 100 n spike result. RI CS-1)	Units mg/Kg PD is based on t Units Dil. ng/Kg 1 PD is based on t ate Analyzed: C Preparation:	Dil. 1 the spike a Spike Amount 100 the spike a 2010-07-2 2010-07-1	Spike Amount 100 Ind spike du Matrix Result <2.18 Ind spike du	Matr Resu <2.1 uplicate rest Rec. 100 uplicate rest	ix <u>lt</u> Rec. <u>8</u> ult. <u>Rec.</u> <u>Limit</u> <u>85 - 115</u> ult. Analy Prepa	RPD 2 vzed By ured By	Rec. Limit 35 - 1 RP Lim 20
Param Chloride Percent recover; Param Chloride Percent recover; Laboratory Co QC Batch: 7: Prep Batch: 6:	y is based on the s y is based on the s ontrol Spike (LC 1924 1608	LCS Result 98.1 spike result. RJ LCSD Result 100 m spike result. RJ CS-1) Da Qu	Units mg/Kg PD is based on t Units Dil. ng/Kg 1 PD is based on t ate Analyzed: C Preparation:	Dil. 1 the spike a Spike Amount 100 the spike a 2010-07-2 2010-07-1	Spike Amount 100 nd spike du Matrix Result <2.18 nd spike du 20 19 Spike	Matr Resu <2.1 aplicate rest Rec. 100 aplicate rest	ix <u>lt Rec</u> <u>8</u> 98 ult. <u>Rec</u> . <u>Limit</u> <u>85 - 115</u> ult. Analy Prepa	RPD 2 vzed By vzed By	Rec. Limit 35 - 11 RPI Lim 20 : AC : AC Rec.
Param Chloride Percent recover: Param Chloride Percent recover: Laboratory Co QC Batch: 7 Prep Batch: 6 Param	y is based on the s y is based on the s ontrol Spike (LC 1924 1608	LCS Result 98.1 spike result. RI LCSD Result 100 m spike result. RI CS-1) Da Qu LCS Result	Units mg/Kg PD is based on t Units Dil. ng/Kg 1 PD is based on t ate Analyzed: C Preparation: Units	Dil. 1 the spike a Spike Amount 100 the spike a 2010-07-2 2010-07-1 Dil.	Spike Amount 100 and spike du Matrix Result <2.18 and spike du 20 19 Spike Amount	Matr Resu 22.1 aplicate resu Rec. 100 aplicate resu Matrix Result	ix lt Rec 8 98 ult. Rec. Limit 85 - 115 ult. Analy Prepa Rec.	RPD 2 vzed By ured By	Rec. Limit RPI Lim 20 : AC : AC Rec. Limit

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control spikes continued Param Ethylbenzene Xylene	LC Resu	S									
Param Ethylbenzene Xylene	LC Resu	S									
Param Ethylbenzene Xylene	Resu				Spik	e	Ma	trix			Rec.
Ethylbenzene Xylene	2.0	ilt	Units	Dil.	Amou	int	Res	sult	Rec.		Limi
Xylene	2.0	0 n	ng/Kg	1	2.00)	<0.0	0106	100	78	3.4 - 1
	6.0	6 n	ng/Kg	1	6.00)	< 0.0	0930	101	79).1 -
Percent recovery is based on the	he spike result.	RPD is	based of	on the spike	and spi	ike dup	olicate	result.			
	LCSD			Spike	Mat	rix		R	ec.		\mathbf{R}
Param	Result	Units	Dil.	Amount	Res	ult	Rec.	Li	mit	RPD	Li
Benzene	2.03	mg/Kg	1	2.00	< 0.0	150	102	81.9	- 108	2	2
Toluene	2.07	mg/Kg	1	2.00	<0.00	0950	104	81.9	- 107	2	2
Ethylbenzene	2.04	mg/Kg	1	2.00	< 0.0	106	102	78.4	- 107	2	2
Xylene	6.21	mg/Kg	1	6.00	< 0.00	0930	104	79.1	- 107	2	2
Percent recovery is based on the	he spike result.	RPD is	based of	on the spike	and spi	ike dup	olicate	result.			
	LC	S LO	CSD			Spik	æ	LCS	LCSD		Rec
	Rest	ılt Re	esult	Units	Dil.	Amou	int	Rec.	Rec.		Limi
Surrogate						0.07					
Surrogate Trifluorotoluene (TFT)	2.0	9 2	.04	mg/Kg	1	2.00)	104	102	70).2 -
Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB Laboratory Control Spike QC Batch: 71925 Prep Batch: 61608	2.0 3) 2.1 (LCS-1)	9 2 5 2 Date A QC Pre	.04 .09 nalyzed	mg/Kg mg/Kg : 2010-07 n: 2010-07	1 1 7-20 7-19	2.00)	104 108	102 104 Analy Prepa	70 69 zed By red By).2 - 9.8 - y: A 7: A
Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB Laboratory Control Spike QC Batch: 71925 Prep Batch: 61608	2.0 3) 2.1 (LCS-1)	9 2 5 2 Date A QC Pre	.04 .09 nalyzed eparatic	mg/Kg mg/Kg : 2010-07 n: 2010-07	1 1 7-20 7-19 Spil	2.0(2.0()) Ma	104 108	102 104 Analy Prepa	70 69 zed By red By).2 - 9.8 - y: A 7: A Rec.
Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB Laboratory Control Spike QC Batch: 71925 Prep Batch: 61608 Param	2.0 2.1 (LCS-1) LC Res	9 2 5 2 Date A QC Pre	.04 .09 nalyzed eparatic Units	mg/Kg mg/Kg : 2010-07 n: 2010-07 Dil.	1 1 7-20 7-19 Spil Amo	2.00 2.00 ke unt)) Ma Res	104 108 trix sult	102 104 Analy Prepa Rec.	70 69 zed By red By).2 - 9.8 - y: A 7: A Rec. Limi
Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB Laboratory Control Spike QC Batch: 71925 Prep Batch: 61608 Param GRO	2.0 2.1 (LCS-1) LC Res 15	9 2 5 2 Date A QC Pre	.04 .09 nalyzed eparatic Units mg/Kg	mg/Kg mg/Kg : 2010-07 n: 2010-07 Dil.	1 1 7-20 7-19 Spil Amo 20.	2.00 2.00 ke unt 0)) Ma Res <1	104 108 trix sult .65	102 104 Analy Prepa Rec. 78	70 69 zed By red By 69).2 - 9.8 - y: A r: A Rec. Limi .9 - 9
Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB Laboratory Control Spike QC Batch: 71925 Prep Batch: 61608 Param GRO Percent recovery is based on t	2.0 2.1 (LCS-1) LC Res 15 he spike result.	9 2 5 2 Date A QC Pre S ult .7 1 RPD is	.04 .09 nalyzed eparatic <u>Units</u> mg/Kg based o	mg/Kg mg/Kg : 2010-07 m: 2010-07 Dil. 1 on the spike	1 1 7-20 7-19 Spil Amo 20. and spi	2.00 2.00 ke dup)) Ma Res <1	104 108 trix sult .65 result.	102 104 Analy Prepa Rec. 78	70 69 zed By red By 69).2 - 9.8 - y: A 7: A Rec. Limi .9 - 9
Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB Laboratory Control Spike QC Batch: 71925 Prep Batch: 61608 Param GRO Percent recovery is based on t	2.0 2.1 (LCS-1) LC Res 15 he spike result. LCSD	9 2 5 2 Date A QC Pre S ult 7 1 RPD is	.04 .09 eparatic Units mg/Kg based o	mg/Kg mg/Kg : 2010-07 n: 2010-07 Dil. 1 on the spike Spike	1 1 7-20 7-19 Spil Amo 20. and spi Mat:	2.00 2.00 ke dup rix)) Ma Res <1	104 108 trix sult .65 result. Re	102 104 Analy Prepa Rec. 78	70 69 zed By red By 69	9.2 - 9.8 - y: A 7: A Rec. Limi .9 - 9 RJ
Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB Laboratory Control Spike QC Batch: 71925 Prep Batch: 61608 Param GRO Percent recovery is based on t Param	2.0 2.1 (LCS-1) (LCS-1) LCSD Result	9 2 5 2 Date A QC Pre S ult .7 1 RPD is Units	.04 .09 nalyzed eparatic <u>Units</u> mg/Kg based o Dil.	mg/Kg mg/Kg : 2010-07 m: 2010-07 Dil. 1 on the spike Amount	1 1 7-20 7-19 Spil Amo 20. and spi Mat Resu	2.00 2.00 ke dup rix ult)) Ma Res <1 dicate Rec.	104 108 trix sult .65 result. Re Lir	102 104 Analy Prepa Rec. 78 ec. nit	70 69 zed By red By 69 RPD).2 - 9.8 - y: A 7: A Rec. Limi .9 - 9 RI Lin
Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB Laboratory Control Spike QC Batch: 71925 Prep Batch: 61608 Param GRO Param GRO Param GRO GRO	2.0 2.1 (LCS-1) (LCS-1) LC Ress 15 he spike result. LCSD Result 16.6	9 2 5 2 Date A QC Pre S ult .7 1 RPD is Units mg/Kg	.04 .09 malyzed eparatic <u>Units</u> mg/Kg based o <u>Dil.</u>	mg/Kg mg/Kg : 2010-07 n: 2010-07 Dil. 1 on the spike Spike Amount 20.0	1 1 2-20 2-19 Spil Amo 20. and spi Rest Contemporation Rest Contemporation 20.	2.00 2.00 2.00 ke dup rix ult 1 65)) Ma Res <1 dicate Rec. 83	104 108 trix sult .65 result. Lir 69.9 -	102 104 Analy Prepa Rec. 78 ec. nit - 95.4	70 69 red By 69 <u>RPD</u> 6).2 - 9.8 - y: A 7: A Rec. Limi .9 - 9 RJ Lin 2
Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFE Laboratory Control Spike QC Batch: 71925 Prep Batch: 61608 Param GRO Percent recovery is based on the state of the state o	2.0 2.1 (LCS-1) (LCS-1) LCSD Result 16.6 he spike result.	9 2 5 2 Date A QC Press 2S ult 7 1 RPD is <u>Units</u> <u>mg/Kg</u> RPD is	.04 .09 nalyzed eparatic units mg/Kg based o Dil. 1 based o	mg/Kg mg/Kg : 2010-07 n: 2010-07 Dil. 1 on the spike Amount 20.0 on the spike	1 1 -20 7-19 Spil Amo 20. and spi Mat Resu <1.0 and spi	2.00 2.00 2.00 ke dup rix ult 1 65 ke dup)) Ma Res <1 dicate Rec. 83 dicate	104 108 trix sult .65 result. G9.9 - result.	102 104 Analy Prepa Rec. 78 ec. nit - 95.4	70 69 zed By red By 69 <u>RPD</u> 6).2 -).8 - y: A r: A Rec. Limi .9 - 9 RJ Lin 2
Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB Laboratory Control Spike QC Batch: 71925 Prep Batch: 61608 Param GRO Percent recovery is based on t Param GRO Percent recovery is based on t	2.0 2.1 (LCS-1) (LCS-1) LCS he spike result. LCSD Result 16.6 he spike result. LCSD	9 2 5 2 Date A QC Press 2S ult 7 1 RPD is <u>Units</u> <u>mg/Kg</u> RPD is S LC	.04 .09 malyzed eparatic mg/Kg based of Dil. 1 based of CSD	mg/Kg mg/Kg : 2010-07 n: 2010-07 Dil. 1 on the spike Spike Amount 20.0 on the spike	1 1 2-20 2-19 Spil Amo 20. and spi Mat Resu <1.0 and spi	2.00 2.00 2.00 ke dup rix ult 1 65 ke dup Spik)) Ma Rec <1 dicate 83 dicate e	104 108 trix sult .65 result. Re Lir 69.9 - result. LCS	102 104 Analy Prepa Rec. 78 ec. nit 95.4 LCSD	70 69 zed By red By 69 <u>RPD</u> 6).2 -).8 - y: A r: A Rec. Limi .9 - 9 RI Lir 2 Rec
Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB Laboratory Control Spike QC Batch: 71925 Prep Batch: 61608 Param GRO Percent recovery is based on t Param GRO Percent recovery is based on t Surrogate	2.0 2.1 (LCS-1) (LCS-1) LCSD Result 16.6 he spike result. LCSD Result 16.6 he spike result. LCS Result	9 2 5 2 Date A QC Press S ult 7 1 RPD is <u>Units</u> <u>mg/Kg</u> RPD is S LC ult Re	.04 .09 malyzed eparatic Units mg/Kg based o Dil. 1 based o CSD ssult	mg/Kg mg/Kg : 2010-07 n: 2010-07 Dil. 1 on the spike Amount 20.0 on the spike Units	1 1 2-20 2-19 Spil Amo 20. and spi Mat: Resu <1.0 and spi Dil.	2.00 2.00 2.00 ke dup rix ult 1 65 ke dup Spik Amou)) Ma Res <1 olicate Rec. 83 olicate e unt	104 108 trix sult .65 result. G9.9 - result. LCS Rec.	102 104 Analy Prepa Rec. 78 ec. nit 95.4 LCSD Rec.	70 69 zed By red By 69 <u>RPD</u> 6).2 - 9.8 - 9.8 - y: A 7: A Rec. Limi 9 - 9 RJ Lin 2 Rec. Limi
Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB Laboratory Control Spike QC Batch: 71925 Prep Batch: 61608 Param GRO Percent recovery is based on the state of the state o	2.0 2.1 (LCS-1) (LCS-1) LCSD Result 16.6 he spike result. LCSD Result 16.6 he spike result. LCSD Result 16.6 he spike result.	9 2 5 2 Date A QC Press 2S ult 7 1 RPD is Units mg/Kg RPD is S LC ilt Re 8 2	.04 .09 malyzed eparatic Units mg/Kg based o Dil. 1 based o CSD esult .68	mg/Kg mg/Kg : 2010-07 n: 2010-07 Dil. 1 on the spike Amount 20.0 on the spike Units mg/Kg	1 1 2-20 2-19 Spil Amo 20. and spi Mat Resu <1.0 and spi Dil. 1	ke unt 0 ke dup rix ult 1 65 ke dup Spik Amou 2.00)) Ma Res <1 dicate Rec. 83 dicate e mt	104 108 trix sult .65 result. 69.9 - result. LCS Rec. 134	102 104 Analy Prepa Rec. 78 ec. nit - 95.4 LCSD Rec. 134	70 69 zed By red By 69 <u>RPD</u> 6).2 -).8 -).8 - y: A Rec. Limi .9 - 9 RJ Lim 2 Rec Limi .9 - 9

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Report Date: July 21, 114-6400598	2010		W	Vork Ord LPU	ler: 100719 J #139	20		Page	e Number Lea Co	: 10 of 13 unty, NM
		MS	5			Spike	Matr	ix		Rec.
Param		Resu	lt 1	Units	Dil.	Amount	Resu	lt Ree	2.	Limit
DRO		241	n	1g/Kg	1	250	<14.	.5 96	35.	2 - 167.1
Percent recovery is base	ed on the s	pike result.	RPD is	based or	n the spike	and spike d	uplicate	result.		_
		MSD			Spike	Matrix		Rec.		RPD
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
DRO		242	mg/Kg	1	250	<14.5	97	35.2 - 167.	1 0	20
Percent recovery is base	ed on the s	pike result.	RPD is	based or	n the spike	and spike d	uplicate	result.		
	MS	MSD				Spike	Μ	IS M	ISD	Rec.
Surrogate	Result	Result	t	Jnits	Dil.	Amount	Re	ec. R	lec.	Limit
n-Tricosane	101	106	m	g/Kg	1	100	1()1 1	.06	70 - 130
D		M	S	TT •-	F .1	Spike	Ma	atrix	D	Rec.
Param		Res	ult	Units	Dil.	Amount	Re	esult	Rec.	Limit
Chloride		996	30	mg/Kg	100	10000	<	218	100	85 - 115
Percent recovery is base	ed on the s	pike result.	RPD is	based or	n the spike	and spike di	uplicate i	result.		
		MSD			Spike	Matrix		Rec.		RPD
Param		Result	Units	Dil.	Amount	t Result	Rec.	Limit	RPD	Limit
Chloride		10100	mg/Kg	g 100	10000	<218	101	85 - 115	1	20
Percent recovery is base Matrix Spike (MS-1) QC Batch: 71924 Prep Batch: 61608	ed on the s	pike result. I Sample: 23	RPD is 38026 Date Ai QC Pre	based or nalyzed: paration	2010-07- 2010-07- a: 2010-07-	and spike d -20 -19	uplicate i	result. A Pr	nalyzed B repared B	y: AG y: AG
		МС				Calles	M-+-	· · ·		Dee
Param		Resu	lt. T	Inits	Dil	Amount	iviati Reei	ılt R	ec	nec. Limit
Benzene	•••••	1.94		g/Kg	1	2.00	< 0.0	$\frac{10}{150}$		$\frac{1}{0.5 - 112}$
Toluene		2.01	l m	ig/Kg	1	2.00	< 0.00	950 1	00 8	2.4 - 113
Ethylbenzene		2.06	6 m	ig/Kg	1	2.00	< 0.0	106 1	03 8	3.9 - 114
Xylene		6.25	ó m	ıg/Kg	1	6.00	< 0.00	930 1	04	84 - 114
Percent recovery is base	d on the s	pike result.	RPD is	based or	the spike	and spike di	iplicate	esult.		
continued			. <u></u>	· · · · ·	•	•				

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114-6400598			W	ork Or LP	H	Page N	lumber: Lea Coi	11 of 13 1nty, NM				
matrix spikes continued	MC	n			Spiles	Ма	4		D,			חסק
Param	Res	D ult	Units	Dil.	Amount	Res	trix sult	Rec.	Lin	ec. nit	RPD	Limit
	MS	ח			Spiko	Ма	triv		Re			RĐĐ
Param	Res	ult	Units	Dil.	Amount	Res	sult	Rec.	Lin	nit	RPD	Limit
Benzene	2^{2} 2.3	1	mg/Kg	1	2.00	< 0.0	0150	116	80.5	- 112	17	20
Toluene	3 2.3	7	mg/Kg	1	2.00	< 0.0	0950	118	82.4	- 113	16	20
Ethylbenzene	4 2.4	5	mg/Kg	1	2.00	<0.0	0106	122	83.9 -	- 114	17	20
Xylene	5 7.38 mg/Kg 1 $6.00 < 0.0030$	123	84 -	- 114	17	20						
Percent recovery is based on th	e spike re	sult.	RPD is l	based o	on the spike	and sp	ike du	plicate	result.			
		MS	5 M	SD			Sp	oike	MS	MS	D	Rec.
Surrogate		Resu	ılt Re	sult	Units	Dil.	Am	ount	Rec.	Rec	с.	Limit
Trifluorotoluene (TFT)		1.6	1 1.	74	mg/Kg	1		2	80	87	<u> </u>	1.3 - 117
4-Bromofluorobenzene (4-BFB))	1.6'	71.	82	mg/Kg	1		2	84	91	. 3	5.5 - 129
Matrix Spike (MS-1) Spi QC Batch: 71925 Prep Batch: 61608	ked Samp	le: 2	38037 Date An QC Prep	nalyzed: paration	: 2010-07 n: 2010-07	-20 -19				Ana Preț	lyzed B bared B	y: AG y: AG
Matrix Spike (MS-1) Spi QC Batch: 71925 Prep Batch: 61608	ked Samp	le: 2	38037 Date An QC Prep	alyzed paratio	: 2010-07 n: 2010-07	-20 -19	:1-0	·	4-1-1	Ana Preț	lyzed B bared B	y: AG y: AG
Matrix Spike (MS-1) Spi QC Batch: 71925 Prep Batch: 61608 Param	ked Samp	MS MS	38037 Date An QC Prep S	alyzed: paration	: 2010-07 n: 2010-07	-20 -19 A m	ike	Ma	trix	Ana Prep Bec	lyzed B bared B	y: AG y: AG Rec. Limit
Matrix Spike (MS-1) Spi QC Batch: 71925 Prep Batch: 61608 Param GBO	ked Samp	MS Resu	38037 Date An QC Prep S ult 1 2 n	nalyzed paration Units	: 2010-07 n: 2010-07 Dil.	-20 -19 Sp <u>Amo</u> 20	ike ount	Ma Res	trix sult	Ana Prep Rec. 76	lyzed B bared B	y: AG y: AG Rec. Limit
Matrix Spike (MS-1) Spi QC Batch: 71925 Prep Batch: 61608 Param GRO Percent recovery is based on th	ked Samp e spike re	MS Resu 15. sult.	38037 Date An QC Prep S ult 1 2 n RPD is b	ualyzed paration Units 1g/Kg pased o	: 2010-07 n: 2010-07 	-20 -19 <u>Amo</u> 20 and sp	ike ount).0 ike du	Ma Res <1 plicate	trix sult .65 result.	Ana Prep Rec. 76	lyzed B pared B	y: AG y: AG Rec. Limit 1.8 - 114
Matrix Spike (MS-1) Spi QC Batch: 71925 Prep Batch: 61608 Param GRO Percent recovery is based on th	ked Samp e spike re MS	MS Resu 15. sult. D	38037 Date An QC Prep S ult 1 2 m RPD is b	units ng/Kg pased o	: 2010-07 n: 2010-07 	-20 -19 Amo 20 and sp Ma	ike ount 1.0 ike du trix	Ma Res <1 plicate	trix sult .65 result. Rea	Ana Prep <u>Rec.</u> 76 c.	lyzed B bared B	y: AG y: AG Rec. Limit 1.8 - 114 RPD
Matrix Spike (MS-1) Spi QC Batch: 71925 Prep Batch: 61608 Param GRO Percent recovery is based on th Param	ked Samp e spike re MS Res	MS Resu 15. sult. D ult	38037 Date An QC Prep S ult 1 2 n RPD is b Units	units units ig/Kg pased o Dil.	: 2010-07 n: 2010-07 	-20 -19 <u>Amo</u> 20 and sp Ma Res	ike ount).0 ike du tríx sult	Ma Res <1 plicate Rec.	trix sult .65 result. Rea Lim	Ana Prep Rec. 76 c.	lyzed B bared B 6 RPD	y: AG y: AG Rec. Limit 1.8 - 114 RPD Limit
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Matrix Spike (MS-1) Spi QC Batch: 71925 Prep Batch: 61608 Param GRO Percent recovery is based on th Param GRO Percent recovery is based on th	ked Samp e spike re MS Res 16. te spike re	MS Resu 15. sult. D ult 2 sult. MS	38037 Date An QC Prep S ult 1 2 m RPD is b Units mg/Kg RPD is b S M	Units units ng/Kg pased o Dil. 1 pased o (SD	: 2010-07 n: 2010-07 Dil. 1 n the spike Spike Amount 20.0 n the spike	-20 -19 Amo 20 and sp Ma Res <1 and sp	ike ount).0 ike du tríx sult .65 ike du S	Ma Rec plicate Rec. 81 plicate pike	trix sult .65 result. Rea Lim 61.8 - result. MS	Ana Prep Rec. 76 c. hit 114	lyzed B bared B 6 <u>RPD</u> 6 SD	y: AG y: AG Rec. Limit 1.8 - 114 RPD Limit 20 Rec.
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Matrix Spike (MS-1) Spi QC Batch: 71925 Prep Batch: 61608 Param GRO Percent recovery is based on th Param GRO Percent recovery is based on th Surrogate Trifluorotoluene (TFT)	ked Samp e spike re MS Res 16 e spike re	MS Resu 15. sult. D ult 2 sult. Resu 1.5	38037 Date An QC Prep Sult 1 2 n RPD is b Mg/Kg RPD is b S M ult Re 5 2	Units 1g/Kg pased o Dil. 1 pased o (SD esult .31	: 2010-07 n: 2010-07 Dil. 1 n the spike Spike Amount 20.0 n the spike Units mg/Kg	-20 -19 Amo 20 and sp Ma Res <1 and sp Dil. 1	ike ount .0 ike du trix sult .65 ike du S An	Ma Res <1 plicate Rec. 81 plicate pike nount 2	trix sult .65 result. Rec Lim 61.8 - result. MS Rec. 78	Ana Prep Rec. 76 c. iit 114 M R 1	lyzed B bared B 6 <u>RPD</u> 6 SD ec. 16	y: AG y: AG Rec. Limit 1.8 - 114 RPD Limit 20 Rec. Limit 50 - 162
Matrix Spike (MS-1) Spi QC Batch: 71925 Prep Batch: 61608 Param GRO Percent recovery is based on th Param GRO Percent recovery is based on th Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB)	ked Samp e spike re MS Res 16. e spike re	le: 2 MS Resu 15. sult. D ult 2 sult. MS Resu 1.5 1.5	38037 Date An QC Prep S ult 1 2 m RPD is b Units mg/Kg RPD is b S Mult Re 5 2 8 2	Units ng/Kg pased o Dil. 1 pased o (SD esult .31 .30	: 2010-07 n: 2010-07 Dil. 1 n the spike Spike Amount 20.0 n the spike Units mg/Kg mg/Kg	-20 -19 Amo 20 and sp Ma Res <1 and sp Dil. 1 1	ike ount).0 ike du tríx sult .65 ike du S An	Ma Res <1 plicate Rec. 81 plicate pike nount 2 2	trix sult .65 result. Red Lim 61.8 - result. MS Rec. 78 79	Ana Prep Rec. 76 c. nit 114 M R 1 1	lyzed B bared B 6 RPD 6 SD ec. 16 15	y: AG y: AG Rec. Limit 1.8 - 114 RPD Limit 20 Rec. Limit 50 - 162 50 - 162

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²MSD analyte out of range. MS/MSD has a RPD within limits. Therfore, MS shows extraction occured properly.
 ³MSD analyte out of range. MS/MSD has a RPD within limits. Therfore, MS shows extraction occured properly.
 ⁴MSD analyte out of range. MS/MSD has a RPD within limits. Therfore, MS shows extraction occured properly.
 ⁵MSD analyte out of range. MS/MSD has a RPD within limits. Therfore, MS shows extraction occured properly.

	-	LPU #139		Page Number: 12 of 13 Lea County, NM			
Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed		
mg/Kg	250	261	104	80 - 120	2010-07-19		
	Date Ana	alyzed: 2010-0	7-19	An	alyzed By: kg		
T T	CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date		
Units mg/Kg		268	107	$\frac{\text{Limits}}{80 - 120}$	Analyzed 2010-07-19		
	Date Ana	alyzed: 2010-0	7-19	Ana	alyzed By: kg		
Unite	CCVs True Conc	CCVs Found Conc	CCVs Percent Becovery	Percent Recovery Limits	Date		
mg/Kg	250	265	106	80 - 120	2010-07-19		
	Date Ana	lyzed: 2010-07	7-20	Anal	yzed By: AR		
	ICVs	ICVs	ICVs	Percent			
TT	True	Found	Percent	Recovery	Date		
Units mg/Kg	<u> </u>	<u> </u>	Recovery	Limits 85 115	Analyzed		
	Date Ana	lyzed: 2010-07	7-20	Anal	yzed By: AR		
	CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date		
Units	Conc.	Conc.	Recovery	Limits	Analyzed		
011100	100	103	103	85 - 115	2010 07 20		
	Units mg/Kg Units mg/Kg Units mg/Kg	True Units Conc. mg/Kg 250 Date Ana CCVs True Units Conc. mg/Kg 250 Date Ana CCVs True Units Conc. mg/Kg 250 Date Ana ICVs True Units Conc. mg/Kg 100 Date Ana ICVs True Units Conc.	TrueFound Conc.mg/Kg250261Date Analyzed:2010-0CCVsCCVsTrueFoundUnitsConc.Conc.mg/Kg250268Date Analyzed:2010-0CCVsCCVsTrueFoundUnitsConc.Conc.mg/Kg250265Date Analyzed:2010-0UnitsConc.Conc.mg/Kg250265Date Analyzed:2010-0ICVsICVsTrueFoundUnitsConc.Conc.mg/Kg10096.9Date Analyzed:2010-0CCVsCCVsTrueFoundDate Analyzed:2010-0CCVsCCVsTrueFound	TrueFoundPercentUnitsConc.Conc.Recoverymg/Kg250261104Date Analyzed: 2010-07-19CCVsCCVsCCVsCCVsCCVsTrueFoundPercentUnitsConc.Conc.Recoverymg/Kg250268107Date Analyzed: 2010-07-19CCVsCCVsCCVsCCVsCCVsTrueFoundPercentUnitsConc.Conc.Recoverymg/Kg250265106Date Analyzed: 2010-07-20ICVsICVsICVsICVsICVsTrueFoundPercentUnitsConc.Conc.Recoverymg/Kg10096.997Date Analyzed: 2010-07-20CCVsCCVsCCVsCCVsCCVsTrueFoundPercentUnitsConc.Conc.Recoverymg/Kg10096.997	True Found Percent Recovery Units Conc. Conc. Recovery Limits mg/Kg 250 261 104 80 - 120 Date Analyzed: 2010-07-19 An. CCVs CCVs CCVs True Found Percent Recovery Units Conc. Conc. Recovery Limits mg/Kg 250 268 107 80 - 120 Date Analyzed: 2010-07-19 An. CCVs CCVs Percent Recovery Limits mg/Kg 250 268 107 Date Analyzed: 2010-07-19 An. CCVs CCVs CCVs Percent True Found Percent Recovery Units Conc. Conc. Recovery		

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Report Dat 114-640059	te: July 21, 201 8	0	Wor	k Order: 10071 LPU #139	920	Page N I	umber: 13 of 13 ea County, NM
		T 7 . 1.	CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		mg/Kg	0.100	0.0959	96	80 - 120	2010-07-20
Toluene		mg/Kg	0.100	0.0981	98	80 - 120	2010-07-20
Ethylbenzer	ne	mg/Kg	0.100	0.0991	99	80 - 120	2010-07-20
Xylene		mg/Kg	0.300	0.300	100	80 - 120	2010-07-20
Standard ((CCV-2)						
QC Batch:	71924		Date Anal	yzed: 2010-07-	-20	Anal	yzed By: AG
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene	¥	mg/Kg	0.100	0.0995	100	80 - 120	2010-07-20
Toluene		mg/Kg	0.100	0.101	101	80 - 120	2010-07-20
Ethylbenzei	ne	mg/Kg	0.100	0.0996	100	80 - 120	2010-07-20
Xylene		mg/Kg	0.300	0.302	101	80 - 120	2010-07-20
Standard	(CCV-1)						
QC Batch:	71925		Date Analy	yzed: 2010-07-	-20	Anal	yzed By: AG
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO	*****	mg/Kg	1.00	1.02	102	80 - 120	2010-07-20
Standard	(CCV-2)						
QC Batch:	71925		Date Analy	yzed: 2010-07-	-20	Anal	yzed By: AG
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
GRO		mg/Kg	1.00	0.992	99	80 - 120	2010-07-20

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is Ag As is Ag As ea ea ea foog b foog b foog cc. (Air) foog foog foog foog foog foog foog foo	MOD)	(aom			T	Ę	CONTAIN		TNAME:	ECT	ROJ	8 PI	592	10.: 2400	PROJECT N
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SAMPLED BY: (Print & Initial) Date: ? - _ SAMPLE SHIPPED BY: (Circle) AIRPUL #:	SAMPLED BY	<u>5</u>	14:0	<u> </u>	Date: Time: Date:		-	RECEIVED BY: (Signature)	Date:			•	nue) Tue)	BY: (Signatur	LINQUISHED
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Please fill out all coples - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.

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Summary Report

Ike Tavarez Tetra Tech 1910 N. Big Spring Street Midland, TX 79705

Report Date: August 30, 2010

Work Order: 10082314

Project Location:Lea County, NMProject Name:Chevron/LPU #139Project Number:114-6400598

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
242147	T-1 1-1.5'	soil	2010-08-18	00:00	2010-08-20
242148	T-2 1-1.5'	soil	2010-08-18	00:00	2010-08-20

Sample: 242147 - T-1 1-1.5'

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00

Sample: 242148 - T-2 1-1.5'

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00

	RACEANA	ALYSIS,	INC	
6701 Aberdeen Avenue, Suite 9 200 East Suiset Boad, Suite E	Lubbock, Texas 79424 Fi Paso - Texas 79922	800•378•1296 888•588•3443	806•794•1296 915•585•3443	FAX 806+794+1298 FAX 915+585+4944
5002 Basin Street, Suite A1	Midiand, Texas 79703		432•689•6301	FAX 432•689•6313
6015 Harris Parkway, Suite 110	Ft. Worth, Texas 76132		817•201•5260	
	E-Mail lab@t	raceanalysis.com		

Certifications

WBENC: 237019

1,

HUB: 1752439743100-86536 NCTRCA WFWB38444Y0909

DBE: VN 20657

NELAP Certifications

Lubbock: T104704219-08-TX LELAP-02003 Kansas E-10317

El Paso: T104704221-08-TX LELAP-02002

Midland: T104704392-08-TX

Analytical and Quality Control Report

Ike Tavarez Tetra Tech 1910 N. Big Spring Street Midland, TX, 79705

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Report Date: August 30, 2010

Work Order: 10082314

Project Location: Lea County, NM Chevron/LPU #139 Project Name: Project Number: 114-6400598

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
242147	T-1 1-1.5'	soil	2010-08-18	00:00	2010-08-20
242148	T-2 1-1.5'	soil	2010-08-18	00:00	2010-08-20

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 5 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Michael april

Dr. Blair Leftwich, Director Dr. Michael Abel, Project Manager

Standard Flags

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 $\,B\,$ - $\,$ The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project Chevron/LPU #139 were received by TraceAnalysis, Inc. on 2010-08-20 and assigned to work order 10082314. Samples for work order 10082314 were received intact at a temperature of 4.0 C.

Samples were analyzed for the following tests using their respective methods.

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		Prep	Prep	\mathbf{QC}	Analysis
Test	Method	Batch	Date	Batch	Date
Chloride (Titration)	SM 4500-Cl B	62588	2010-08-26 at 09:40	73011	2010-08-27 at 15:09

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 10082314 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Page 3 of 5

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Analytical Report

Sample: 242147 - T-1 1-1.5'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	73011	Date Analyzed:	2010-08-27	Analyzed By:	AR
Prep Batch:	62588	Sample Preparation	2010-08-26	Prepared By:	AR
		\mathbf{RL}			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		<200	mg/Kg	50	4.00

Sample: 242148 - T-2 1-1.5'

10	Chloride		<200	mg/Kg	50	4.00
- 21	Parameter	Flag	RL Result	Units	Dilution	RL
Sec. Store	Prep Batch:	62588	Sample Preparation	: 2010-08-26	Prepared By:	AR
	Analysis: QC Batch:	Chloride (Titration) 73011	Analytical Method: Date Analyzed:	SM 4500-Cl B 2010-08-27	Prep Method: Analyzed By:	N/A AR
ीत् २७.२ २४।	Laboratory:	Midland				

Method Blank (1) QC Batch: 73011

Sec. mark	QC Batch:	73011	Date Analyzed:	2010-08-27	Analyzed By:	AR
	Prep Batch:	62588	QC Preparation:	2010-08-26	Prepared By:	AR
_						

		MDL		
Parameter	Flag	\mathbf{Result}	Units	\mathbf{RL}
Chloride		<2.18	mg/Kg	4

Laboratory Control Spike (LCS-1)

QC Batch: Prep Batch:	73011 62588	Date QC	e Analyzed: Preparation:	2010-08-2 2010-08-2	7 6		Analyzec Prepared	l By: AR By: AR
Param		LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		97.3	mg/Kg	1	100	<2.18	97	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: August 30, 2010 114-6400598			Work Order: 10082314 Chevron/LPU #139				Page Number: 5 of 5 Lea County, NM			
Param		$\begin{array}{c} { m LCSD} \\ { m Result} \end{array}$	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		103	mg/Kg	1	100	<2.18	103	85 - 115	6	20
Percent reco	overy is based	on the spike result.	RPD is b	ased on	the spike ar	nd spike du	plicate r	esult.		*_
Matrix Spi	ike (MS-1)	Spiked Sample: 2	42251							
QC Batch:	73011		Date Ana	alvzed:	2010-08-2	7		Ar	alvzed By	AR.
Prep Batch:	62588		QC Prepa	aration:	2010-08-2	6		Pr	epared By	· AR
		М	C			Cnilco	Ма	tuin		Dee
Param		Reg	ວ ult T	Inits	Dil	Amount	Ro	ulix sult F	loc	Limit
Chloride	<u> </u>	999	$\frac{1}{10}$ m	g/Kg	100	10000	2	23	<u>98</u>	$\frac{111110}{85 - 115}$
Paraant roso	worry is based	on the onike regult	DDD is h	ord on	the enilse or	d mike due	-liosto m			
Percent reco	ivery is based	on the spike result.	RED IS DA	ased on	uie spike ai	ia spike au	plicate r	esuit.		
		MSD			Spike	Matrix		Rec.		RPD
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride		10600	mg/Kg	100	10000	223	104	85 - 115	6	20
Percent reco	overy is based	on the spike result.	RPD is ba	ased on	the spike an	ıd spike dur	olicate r	esult.		
Standard (ICV-1)									
QC Batch:	73011		Date Ana	lyzed:	2010-08-27			An	alyzed By	r: AR
			ICVs	IC	Vs	ICVs		Percent		
			True	For	und	Percent]	Recovery		Date
Param	Flag	Units	Conc.	Co	onc.	Recovery		Limits	Ar	alyzed
Chloride		mg/Kg	100	98	3.5	98		85 - 115	201	0-08-27
Standard (CCV-1)									
QC Batch:	73011		Date Ana	lyzed:	2010-08-27			An	alyzed By	·: AR
			CCVs	CC	CVs	CCVs		Percent		
	_		True	For	und	Percent]	Recovery]	Date
Param	Flag	Units	Conc.	Co	onc.	Recovery		Limits	An	alyzed
Chloride		mg/Kg	100	10	02	102		85 - 115	201	0-08-27

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Analysis Request of Chain of Custody Record													ANALYSIS REQUEST (Circle or Specify Method No.)														L						
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CLIENT NAME:				SITE MANAGER: They Tayar-2								IERS		PRESERVATIVE METHOD					0120		Ba C	B			50/624	70/62					a, pH,		
PROJECT NO	0.: 40059	8	PRO	JECT Ch	NAME	1 LP	u * 1	39				CONTAIN	(N)						NOD.		ds Ag As		Volatiles		8240/82	ni. Vol. 82 Vena	8 8		3	(Air) stos)	ns/Catton		
LAB I.D. NUMBER	DATE	TIME	MATRIX	GRAB		Lon	ü, NA SAMI	N PLE ID	ENTIFIC	CATION		NUMBER OF	FILTERED (HCL	HNO3	ICE	NONE		TPH BON	PAH 8270	RCRA Mete	TCLP Volati	TCLP Semi	RCI	GC.MS Vol.	GC.MS Sen	Pest 808/6	Allonde	Gamma Sp	Alpha Beta PLM (Asbet	Major Anio		
242/47	8 18		3	x	7-1		1-1.5'					1		Π	Τ	X			Γ									X	Π	T	Π	T	T
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RELINQUISHED BY: (Signature)									Date: 072-02 Time: 15.						SAMPLED BY: (Print & Initia SAMPLE SHIPPED BY: (Cir						tial)	<u> </u>	Ц			Date: Time							
RELINQUISHED BY: (Signature) Date: RECEVED Sy: (Signature) RELINQUISHED BY: (Signature) Date: RECEIVED BY: (Signature)									Time:						FEDEX BUS										OTHER:								
Time: Time: Time: ADDRESS:												TETRA TECH CONTACT PERSON: Re IK: Tavorez Ri Ai								Results by: RUSH Charges Authorized: Yes													

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