

July 10, 2015

Ms. Dina Ferguson Enterprise Field Services, LLC 10500 Heritage Blvd., Ste. 150 San Antonio, TX 78216

Re: ECIRTS 24883 Event Date: January 27, 2015 Lake Avalon – Line O82O83 Release Carlsbad, Eddy County, New Mexico Apex Project No. 7250715011.001

Dear Ms. Ferguson:

Per your request, this letter provides a summary of the scope, activities and results for the project referred to as the Lake Avalon – Line O82O83, referred to hereinafter as the "Site".

Scope

Enterprise Field Services, LLC (Enterprise) requested Apex TITAN, Inc. (Apex) to conduct investigation and remediation activities related to a natural gas liquids release at the above referenced Site. The investigation included assessment, removal of potentially impacted material, confirmation sampling and backfilling of the excavation and production of a written narrative of findings.

Setting

The geographic coordinates for the site are latitude 32.500087, longitude -104.240170 which is located in Eddy County, New Mexico, located north of Carlsbad on property owned by the Bureau of Reclamation. The Site is located along a pipeline segment of the Line O82O83 natural gas pipeline in close proximity to Lake Avalon. A Site Location Map (Figure 1) is provided as an attachment to this letter report.

The Site intersects a lease road and is approximately 400 feet from the shore of Lake Avalon, and contains the O82O83 natural gas line, traversing the site from the north to the south. The area is surrounded by native rangeland utilized by oil and gas production. The pipeline leak vented a small amount of gas, with approximately two (2) to three (3) barrel (bbl) of pipeline liquids released on the surface. The release was immediately abated by Enterprise personnel. The subsurface consists of alluvium and carbonate deposits with a soil cover.

Release Description and Abatement Activities

On January 27, 2015, Enterprise personnel were notified of a leak on the O82O83 pipeline. The line was immediately shut down and appropriate Enterprise personnel were notified. Enterprise personnel noted that there was approximately two (2) to three (3) bbls of pipeline liquid released from the leak. The cause of the release was reported to be internal corrosion.

Site Activities

An initial site visit was conducted on January 29, 2015, by an Apex professional, Mr. Travis Turner, to oversee excavation activities. Wilbros Construction began excavation of the pipeline and impacted material below the release point. A berm was constructed around the existing excavation in order to prevent the spread of contamination to nearby Lake Avalon.

On February 6, 2015, six (6) confirmation soil samples were collected from each wall of the excavation and directly under the point of release (N-Wall, S-Wall, E-Wall, W-Wall and RP). In addition, a sample was taken of the stockpiled material (SP). Figure 3 provides details on confirmation sample locations.

Based on laboratory results, the confirmation soil samples (N-Wall, S-Wall, E-Wall, W-Wall and RP) exhibited TPH and BTEX concentrations below the New Mexico Oil Conservation Division (NMOCD) Recommended Remediation Action Levels (RRALs).

The confirmation soil samples (N-Wall, S-Wall, E-Wall and W-Wall) exhibited chloride concentrations ranging from 1,760 milligrams per Kilogram (mg/Kg) to 2,690 mg/Kg, which are above the NMOCD RRALs. However, the laboratory results of the background confirmation soil samples (BKG-1 and BKG-2) exhibited chloride concentrations ranging from 1,340 mg/Kg to 2,390 mg/Kg. Therefore, based on the sample results from the background samples, it can be assumed that the chloride concentrations found in the final confirmation soil samples from the excavation naturally occur in the soil in the immediate vicinity of the pipeline.

Final excavation dimensions were approximately 25 feet long by 19 feet wide with a depth of approximately 10 feet at the release point. Impacted soil was removed and collected into a stockpile on Site. A Site Details Plan (Figure 3) is provided as an attachment to this letter report.

All soil samples were collected in laboratory supplied glass containers, immediately cooled to approximately 4° C, transported under proper chain-of-custody procedures and documentation, and submitted to Trace Analysis laboratory in Midland, Texas. Samples were analyzed for total petroleum hydrocarbons, gasoline range organics and diesel range organics, (TPH GRO/DRO) by EPA Method 8015 extended to C-35, benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA Method 8021B and chlorides utilizing EPA Method 300.0. All soil sample analytical results, both confirmation and stockpile samples, were below the NMOCD RRALs. A summary of concentrations in Table 1- Soil Sample Analytical Results and laboratory reports are provided as attachments to this letter report.

Backfill of the excavation was completed on May 15, 2015. The stockpiled soils were taken for disposal to Lea Landfill, east of Carlsbad, New Mexico, and the excavation was backfilled with clean fill material. The area was returned to original surface grade.



If you have any questions about this letter or require anything further, please feel free to call either of the undersigned at (214) 350-5469.

Sincerely, Apex Titan

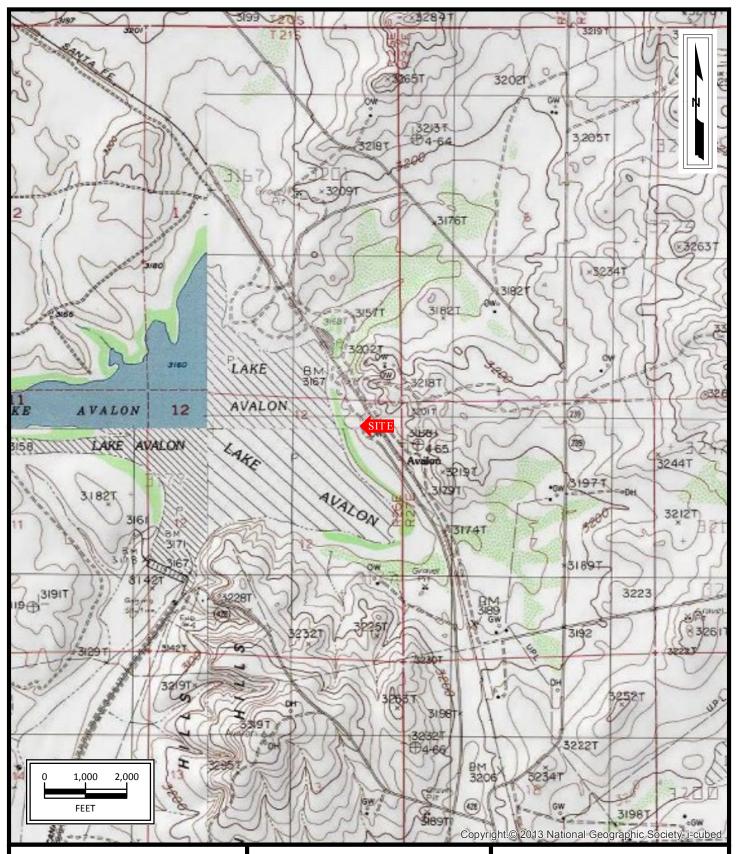
Karolanne Toby Project Geologist

Attachments:

Liz Scaggs, P.G. Division Manager

Figure 1- Site Location Map Figure 2- Site Vicinity Map Figure 3 - Site Details Map Table 1- Soil Sample Analytical Results Laboratory Reports Disposal Documentation





Lake Avalon Carlsbad, Eddy County, New Mexico 32.500087N, 104.24170W



Apex TITAN, Inc. 505 N. Big Spring Street, Suite 301A Midland, Texas 79701

Phone: (432) 695-6016 www.apexcos.com A Subsidiary of Apex Companies, LLC FIGURE 1 Topographic Map Angel Draw, NM and Carlsbad East, NM Quadrangle 1985

Project No. 7250715011



Carlsbad, Eddy County, New Mexico 32.500087N, 104.24170W

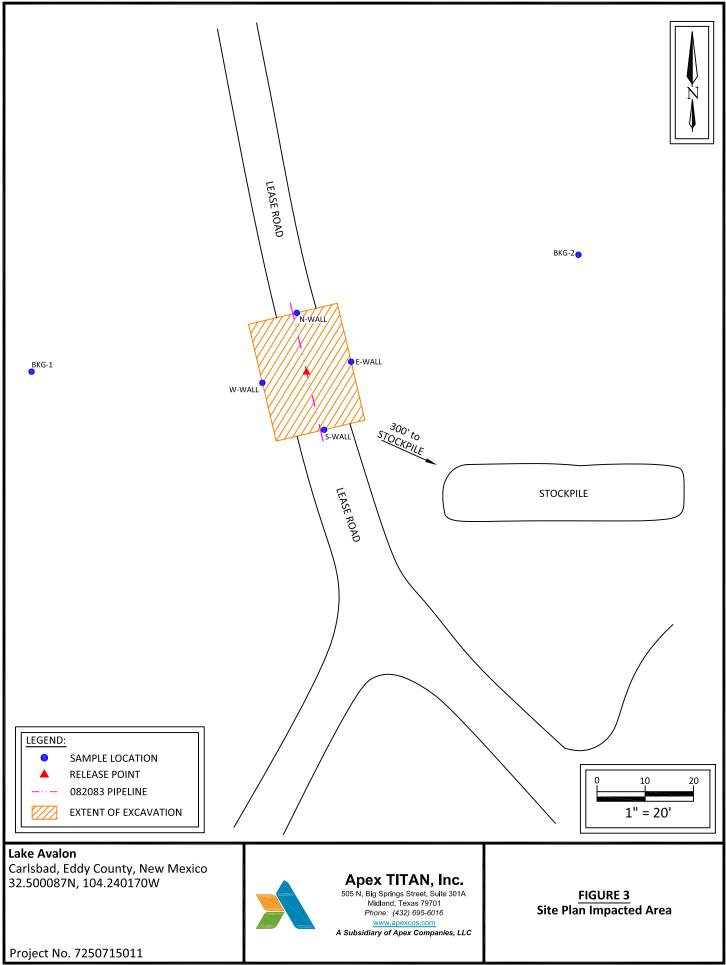


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FIGURE 2 Site Vicinity Map

Project No. 7250715011



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	TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Lake Avalon										
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes (mg/Kg)	BTEX (mg/Kg)	TPH GRO (mg/Kg)	TPH DRO (mg/Kg)	TPH GRO/DRO (mg/Kg)	Chlorides (mg/Kg)
New Mexico Oil Con	New Mexico Oil Conservation Division (NMOCD) Recommended Remediation Action Levels (RRALs) (Total Ranking Score: 10)										
	New Mexico Oil Conservation Division (NMOCD) Recomended Remediation Action Level			NE	NE	NE	50	NE	NE	1,000	1,000
			CON	FIRMATION SA	MPLE ANALYTIC	AL RESULTS					
N-Wall	2/6/2015	8	<0.0200	0.0213	<0.0200	0.0427	0.0640	<50.0	<50.0	<100.0	2,690
S-Wall	2/6/2015	8	<0.0200	<0.0200	<0.0200	<0.0200	<0.0800	<50.0	<50.0	<100.0	2,000
E-Wall	2/6/2015	8	<0.0200	<0.0200	<0.0200	<0.0200	<0.0800	<50.0	<50.0	<100.0	1,760
W-Wall	2/6/2015	8	<0.0200	<0.0200	<0.0200	<0.0200	<0.0800	<50.0	<50.0	<100.0	2,100
RP	2/6/2015	10	0.0509	0.0674	<0.0200	0.0373	0.116	<50.0	<50.0	<100.0	29.0
			ST	OCKPILE SAMI	PLE ANALYTICAL	RESULTS					
SP	2/6/2015	NA	<0.0200	0.0673	0.0357	0.376	0.412	<50.0	<50.0	<100.0	978
			BAC	KGROUND SAI	MPLE ANALYTIC	AL RESULTS					
BKG-1	4/20/2015	6	NA	NA	NA	NA	NA	NA	NA	NA	2,390
BKG-2	4/20/2015	6	NA	NA	NA	NA	NA	NA	NA	NA	1,340

mg/Kg- milligrams per Kilograms

Note: Concentrations in **bold** and yellow exceed the applicable OCD Remediation Action Level

NA-Not Applicable

NE- Not Established



6701 Aberdeen Avenue, Suite 9 200 East Sunset Road, Suite E 5002 Basin Street, Suite A1 (BioAquatic) 2501 Mayes Rd., Suite 100

Lubbock, Texas 79424 Texas 79922 El Paso, Texas 79703 Midland, Carroliton. Texas 75006

E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

915-585-3443 FAX 915 • 585 • 4944 432-689-6301 FAX 432 • 689 • 6313 972-242 -7750

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Will Ferguson APEX/Titan 2351 W. Northwest Hwy. Suite 3321 Dallas, Tx, 75220

Report Date: February 16, 2015

Work Order:	15020913

Project Name: Avalon Lake Project Number: 7250715011.04

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

		Date	Time	Date
Description	Matrix	Taken	Taken	Received
N-Wall	soil	2015-02-06	15:10	2015-02-09
S-Wall	soil	2015-02-06	15:12	2015-02-09
E-Wall	soil	2015-02-06	15:14	2015-02-09
W-Wall	soil	2015-02-06	15:16	2015-02-09
RP	soil	2015-02-06	15:18	2015-02-09
SP	soil	2015-02-06	15:25	2015-02-09
-	N-Wall S-Wall E-Wall W-Wall RP	N-WallsoilS-WallsoilE-WallsoilW-WallsoilRPsoil	DescriptionMatrixTakenN-Wallsoil2015-02-06S-Wallsoil2015-02-06E-Wallsoil2015-02-06W-Wallsoil2015-02-06RPsoil2015-02-06	Description Matrix Taken Taken N-Wall soil 2015-02-06 15:10 S-Wall soil 2015-02-06 15:12 E-Wall soil 2015-02-06 15:14 W-Wall soil 2015-02-06 15:16 RP soil 2015-02-06 15:18

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 21 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Blain Lepturch

Dr. Blair Leftwich, Director James Taylor, Assistant Director Brian Pellam, Operations Manager

Report Contents

Case Narrative	4
Sample 386164 (N-Wall)	5 5 6 7 8 9
Sample 386169 (SP)	10 12
QC Batch 119256 - Method Blank (1) 1 QC Batch 119331 - Method Blank (1) 1	12 12 12
QC Batch 119256 - LCS (1) 1 QC Batch 119331 - LCS (1) 1	14 14 14
QC Batch 119256 - MS (1) 1 QC Batch 119331 - MS (1) 1	16 16 16
QC Batch 119256 - CCV (1) 1 QC Batch 119256 - CCV (2) 1 QC Batch 119331 - ICV (1) 1 QC Batch 119331 - CCV (1) 1 QC Batch 119373 - CCV (1) 1 QC Batch 119373 - CCV (1) 1	18 18 18 18 18 19 19
Report Definitions 2 Laboratory Certifications 2 Standard Flags 2	20 20 20 20 20 21

Case Narrative

Samples for project Avalon Lake were received by TraceAnalysis, Inc. on 2015-02-09 and assigned to work order 15020913. Samples for work order 15020913 were received intact at a temperature of 3.4 C.

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

		Prep	Prep	$\rm QC$	Analysis
Test	Method	Batch	Date	Batch	Date
BTEX	S 8021B	100810	2015-02-09 at 14:42	119256	2015-02-11 at 07:40
Chloride (Titration)	SM 4500-Cl B $$	100917	2015-02-11 at $19:00$	119331	2015-02-12 at $18:00$
TX1005 Extended - NEW	TX1005	100901	2015-02-11 at $16:30$	119373	2015-02-16 at $10:46$

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 15020913 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.

Analytical Report

Sample: 386164 - N-Wall

Laboratory: Midland Analysis: BTEX QC Batch: 119256 Prep Batch: 100810	Ι	Date Ana	Method: lyzed: ceparation	S 8021F 2015-02 : 2015-02	-11		Prep Method Analyzed By Prepared By	v: AK
				RL				
Parameter	Flag	Cert		Result	Units		Dilution	RL
Benzene	U	5	<	0.0200	mg/Kg		1	0.0200
Toluene		5	(0.0213	mg/Kg		1	0.0200
Ethylbenzene	U	5	<	0.0200	m mg/Kg		1	0.0200
Xylene		5	(0.0427	m mg/Kg		1	0.0200
Surrogate Trifluorotoluene (TFT) 4-Bromofluorobenzene (4-BFB)	Flag	Cert	Result 1.76 2.04	Units mg/Kg mg/Kg	Dilution 1 1	Spike Amount 2.00 2.00	Percent Recovery 88 102	Recovery Limits 70 - 130 70 - 130
Sample: 386164 - N-Wall Laboratory: Lubbock Analysis: Chloride (Titration QC Batch: 119331 Prep Batch: 100917	n)	Date	ytical Met Analyzed ple Prepar	: 20	4 4500-Cl B 15-02-12 15-02-12		Prep Meth Analyzed I Prepared I	By: HJ

			nL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride	Qs	1	2690	m mg/Kg	5	5.00

Sample: 386164 - N-Wall

Laboratory:	Midland					
Analysis:	TX1005 Extended - N	EW	Analytical Method:	TX1005	Prep Method:	N/A
QC Batch:	119373		Date Analyzed:	2015-02-16	Analyzed By:	\mathbf{SC}
Prep Batch:	100901		Sample Preparation:	2015-02-11	Prepared By:	\mathbf{SC}
			RL			
Parameter	Fla	g Cert	Result	Units	Dilution	RL
C6-C12	Jb,C	Qs 5	<50.0	mg/Kg	1	50.0
					continued	

continued ...

Report Date: H	February	16,	2015
7250715011.04			

sample 386164 continued ...

				R	L			
Parameter		Flag	Cert	Resu	ılt	Units	Dilution	RL
>C12-C35	Qs 5		<50.0		mg/Kg	1	50.0	
Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane			118	mg/Kg	1	100	118	70 - 130
n-Octane			111	m mg/Kg	1	100	111	70 - 130
n-Tricosane			118	m mg/Kg	1	100	118	70 - 130

Sample: 386165 - S-Wall

Laboratory:MidlandAnalysis:BTEXQC Batch:119256Prep Batch:100810		Date Ana	l Method: lyzed: reparation:	S 8021E 2015-02 2015-02	-11		Prep Method Analyzed By Prepared By	: AK
				RL				
Parameter	Flag	Cert		Result	Units	;	Dilution	RL
Benzene	U	5	<	0.0200	mg/Kg		1	0.0200
Toluene	U	5	<	0.0200	m mg/Kg		1	0.0200
Ethylbenzene	U	5	<	0.0200	m mg/Kg		1	0.0200
Xylene	U	5	<	0.0200	mg/Kg		1	0.0200
Surrogate	Fla	ng Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	1 10	ig Otit	1.63	mg/Kg	1	2.00	82	70 - 130
4-Bromofluorobenzene (4-BFB)			1.89	mg/Kg	1	2.00	94	70 - 130

Sample: 386165 - S-Wall

Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock Chloride (Titration) 119331 100917	Da	alytical Method: te Analyzed: mple Preparation:	SM 4500-Cl B 2015-02-12 2015-02-12	Prep Method: Analyzed By: Prepared By:	нĴ
Parameter	F	lag Cer	t Result	Units	Dilution	RL
Chloride		Qs 1	2000	mg/Kg	5	5.00

Report Date: 7250715011.0	: February 16, 2)4	2015			Work Order Avalor	Page Nur	nber: 7 of 21		
Sample: 38	6165 - S-Wall								
Laboratory: Analysis: QC Batch: Prep Batch:	is: TX1005 Extended - NEW tch: 119373				Analytical Method:TX1005Date Analyzed:2015-02-16Sample Preparation:2015-02-11			Prep Me Analyzec Preparec	d By: SC
						RL			
Parameter		Fl	lag	Cert	Res	ult	Units	Dilution	RL
C6-C12		Jb	,Qs	5	<5	0.0	mg/Kg	1	50.0
>C12-C35		Q	s,U	5	<5	0.0	m mg/Kg	1	50.0
Surrogate	Fla	1 <u>6</u>	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane		0		118	mg/Kg	1	100	118	70 - 130
n-Octane				113	mg/Kg	1	100	113	70 - 130
n-Tricosane				117	mg/Kg	1	100	117	70 - 130

Sample: 386166 - E-Wall

Laboratory:MidlandAnalysis:BTEXQC Batch:119256Prep Batch:100810		Date Ana	l Method: lyzed: reparation:	S 8021E 2015-02 2015-02	-11		Prep Method Analyzed By Prepared By:	AK
				RL				
Parameter	Flag	Cert		Result	Unit	s	Dilution	RL
Benzene	U	5	<	0.0200	mg/Kg	r S	1	0.0200
Toluene	U	5	<	0.0200	$\mathrm{mg/Kg}$	r S	1	0.0200
Ethylbenzene	U	5	<	0.0200	mg/K_{2}	r	1	0.0200
Xylene	U	5	<	0.0200	mg/Kg	5	1	0.0200
						Spike	Percent	Recovery
Surrogate	Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.73	mg/Kg	1	2.00	86	70 - 130
4-Bromofluorobenzene (4-BFB)			1.98	$\mathrm{mg/Kg}$	1	2.00	99	70 - 130

Sample: 386166 - E-Wall

Laboratory:	Lubbock				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	119331	Date Analyzed:	2015-02-12	Analyzed By:	HJ
Prep Batch:	100917	Sample Preparation:	2015-02-12	Prepared By:	HJ

Report Date: Februar 7250715011.04	y 16, 2015	W	ork Order: 150209 Avalon Lake	913	Page Numb	er: 8 of 21
Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Farameter	Flag	Cert	nesuit	Units	Dilution	nL
Chloride	Qs	1	1760	m mg/Kg	5	5.00

Sample: 386166 - E-Wall

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TX1005 E 119373 100901	xtended -	NEW		Analytical Metho Date Analyzed: Sample Preparat	201	1005 5-02-16 5-02-11	Prep Met Analyzed Prepared	By: SC
i tep Daten.	100301			,	Sample 1 Teparat	1011. 201	0-02-11	riepared	Бу. 50
					RL				
Parameter		F	lag	Cert	Result		Units	Dilution	RL
C6-C12		J	b,Qs	5	<50.0		mg/Kg	1	50.0
>C12-C35			Qs	5	<50.0		mg/Kg	1	50.0
G			a .		T T •		Spike	Percent	Recovery
Surrogate		Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontane	e Qsr	Qsr		160	m mg/Kg	1	100	160	70 - 130
n-Octane	Qsr	Qsr		149	m mg/Kg	1	100	149	70 - 130
n-Tricosane	Qsr	Qsr		158	m mg/Kg	1	100	158	70 - 130

Sample: 386167 - W-Wall

Laboratory:MidlandAnalysis:BTEXQC Batch:119256Prep Batch:100810		Date Ana	l Method: lyzed: reparation	S 8021E 2015-02 : 2015-02	-11		Prep Method Analyzed By: Prepared By:	AK
				RL				
Parameter	Flag	Cert		Result	Unit	5	Dilution	RL
Benzene	U	5	<	0.0200	mg/Kg	r S	1	0.0200
Toluene	U	5	<	0.0200	$\mathrm{mg/Kg}$	5	1	0.0200
Ethylbenzene	U	5	<	0.0200	$\mathrm{mg/Kg}$	5	1	0.0200
Xylene	U	5	<	0.0200	$\mathrm{mg/Kg}$	5	1	0.0200
						Spike	Percent	Recovery
Surrogate	Flag	g Cert	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene (TFT)			1.75	mg/Kg	1	2.00	88	70 - 130
4-Bromofluorobenzene (4-BFB)			1.97	$\mathrm{mg/Kg}$	1	2.00	98	70 - 130

Report Date: Februar 7250715011.04	ry 16, 2015	W	ork Order: 15 Avalon Lai		Page Number:	9 of 21
Sample: 386167 - V	V-Wall					
Laboratory: Lubboch	x					
Analysis: Chloride	e (Titration)	Analytic	cal Method:	SM 4500-Cl B $$	Prep Method	: N/A
QC Batch: 119331		Date Ar	alyzed:	2015-02-12	Analyzed By:	HJ
Prep Batch: 100917		Sample	Preparation:	2015-02-12	Prepared By:	HJ
			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride	Qs	1	2100	m mg/Kg	5	5.00
Sample: 386167 - V	V-Wall					
Laboratory: Midland	1					

Laboratory:	Midland								
Analysis:	TX1005 E	xtended -	NEW	А	nalytical Met	hod: TX	1005	Prep Me	thod: N/A
QC Batch:	119373			Ľ	ate Analyzed:	201	5-02-16	Analyzed	l By: SC
Prep Batch:	100901			S	ample Prepara	ation: 201	5-02-11	Prepared	l By: SC
					RI				
Parameter		F	lag	Cert	Result	t	Units	Dilution	RL
C6-C12		J	b,Qs	5	<50.0)	mg/Kg	1	50.0
>C12-C35			Qs	5	<50.0)	mg/Kg	1	50.0
							Spike	Percent	Recovery
Surrogate		Flag	Cert	Result	Units	Dilution	Amount	Recovery	Limits
n-Triacontane	9 Qsr	Qsr		164	mg/Kg	1	100	164	70 - 130
n-Octane	Qsr	Qsr		152	mg/Kg	1	100	152	70 - 130
n-Tricosane	Qsr	Qsr		162	mg/Kg	1	100	162	70 - 130

Sample: 386168 - RP

Laboratory: Analysis: QC Batch: Prep Batch:	Midland BTEX 119256 100810		Analytical Me Date Analyze Sample Prepa	d: 2015-02-1		Prep Method: Analyzed By: Prepared By:	
				RL			
Parameter		Flag	Cert	Result	Units	Dilution	RL
Benzene			5	0.0509	mg/Kg	1	0.0200
Toluene			5	0.0674	m mg/Kg	1	0.0200
Ethylbenzene	e	U	5	< 0.0200	mg/Kg	1	0.0200
Xylene			5	0.0373	mg/Kg	1	0.0200

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Surrogate		Flag	Cert	Result	Unit	s Dil	lution	Spike Amount	Percent Recovery		covery imits
Trifluorotoluen 4-Bromofluorol	ne (TFT) benzene (4-BFB)			$1.67 \\ 1.92$	mg/K mg/K		1 1	$2.00 \\ 2.00$	84 96		- 130 - 130
				1.02		ъ	T	2.00	00	10	100
Sample: 3861	168 - RP										
v	Lubbock					CD 1 450				. 1 1	
*	Chloride (Titration) 119331			ytical Met Analyzed		SM 450 2015-02			Prep Me Analyze		N/A HJ
•	100917			ple Prepar		2015-02			Prepareo		HJ
					RL						
Parameter	Flag		Cert]	Result		Units		Dilution		RL
Chloride	Qs		1		29.0		mg/Kg		1		5.00
Chloride Sample: 3861 Laboratory: 1 Analysis: 7 QC Batch: 1				Analytica Date Ana Sample Pi	l Metho lyzed:	20	mg/Kg (1005 15-02-16 15-02-11		1 Prep Me Analyze Preparec	d By:	5.00 N/A SC SC
Chloride Sample: 3861 Laboratory: 1 Analysis: 7 QC Batch: 1 Prep Batch: 1	168 - RP Midland TX1005 Extended - NE 119373 100901	ŻW		Date Ana Sample Pr	l Metho lyzed: reparati RL	20	X1005 15-02-16 15-02-11		Prep Me Analyze Preparec	d By:	N/A SC SC
ChlorideSample: 3861Laboratory:IAnalysis:QCBatch:IPrepBatch:IParameter	168 - RP Midland TX1005 Extended - NE 119373 100901 Flag	ŻW	Cert	Date Ana Sample Pr	l Metho lyzed: reparati RL Result	20			Prep Me Analyze Prepare Dilution	d By:	N/A SC SC RL
ChlorideSample:3861Laboratory:1Analysis:7QC Batch:1Prep Batch:1Parameter6-C12	168 - RP Midland TX1005 Extended - NE 119373 100901 Flag _{Jb,Qs}	ŻW	Cert 5	Date Ana Sample Pr	l Metho lyzed: reparati RL Result <50.0	20	ζ1005 15-02-16 15-02-11 Units mg/Kg		Prep Me Analyze Prepared Dilution 1	d By:	N/A SC SC RL 50.0
ChlorideSample: 3861Laboratory:IAnalysis:QCBatch:IPrepBatch:IParameter	168 - RP Midland TX1005 Extended - NE 119373 100901 Flag	ŻW	Cert	Date Ana Sample Pr	l Metho lyzed: reparati RL Result	20			Prep Me Analyze Prepare Dilution	d By:	N/A SC SC RL
Chloride Sample: 3861 Laboratory: I Analysis: 7 QC Batch: 1 Prep Batch: 1 Parameter C6-C12 >C12-C35	168 - RP Midland TX1005 Extended - NE 119373 100901 Flag Jb,Qs Qs	2W	Cert 5 5	Date Ana Sample Pr	l Metho lyzed: reparati RL Result <50.0 <50.0	20: on: 20:	X1005 15-02-16 15-02-11 Units mg/Kg mg/Kg Sp	ike	Prep Me Analyze Prepared Dilution 1 1 Percent	d By: d By: Ree	N/A SC SC RL 50.0 50.0 covery
Chloride Sample: 3861 Laboratory: I Analysis: 7 QC Batch: 1 Prep Batch: 1 Parameter C6-C12 >C12-C35 Surrogate	168 - RP Midland TX1005 Extended - NE 119373 100901 Flag Jb,Qs Qs	2W	Cert ⁵ 5 Result	Date Ana Sample Pr	l Metho lyzed: reparati Result <50.0 <50.0	202 on: 202	X1005 15-02-16 15-02-11 Units mg/Kg mg/Kg Sp Am	ount	Prep Me Analyze Prepared Dilution 1 1 Percent Recovery	d By: l By: Ree Li	N/A SC SC RL 50.0 50.0 covery imits
Chloride Sample: 3861 Laboratory: I Analysis: 7 QC Batch: 1 Prep Batch: 1 Parameter C6-C12 >C12-C35	168 - RP Midland TX1005 Extended - NE 119373 100901 Flag Jb,Qs Qs	2W	Cert 5 5	Date Ana Sample Pr	l Metho lyzed: reparati Result <50.0 <50.0 g	20: on: 20:	X1005 15-02-16 15-02-11 Units mg/Kg mg/Kg Sp Am 1		Prep Me Analyze Prepared Dilution 1 1 Percent	d By: d By: d By: Rec Li 70	N/A SC SC <u>RL</u> 50.0 50.0

Sample: 386169 - SP

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	119256	Date Analyzed:	2015-02-11	Analyzed By:	AK
Prep Batch:	100810	Sample Preparation:	2015-02-09	Prepared By:	AK

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					RL					
Parameter		Flag	Cert		Result	Units		Dilution		RL
Benzene		U	5		0.0200	mg/Kg		1		0200
Toluene			5		0.0673	m mg/Kg		1		0200
Ethylbenzene			5	(0.0357	m mg/Kg		1		0200
Xylene			5		0.376	mg/Kg		1	0.0	0200
							Spike	Percent	Reco	verv
Surrogate		Flag	Cert	Result	Units	Dilution	Amount	Recovery	Lin	•
Frifluorotolue	ene (TFT)			1.69	mg/Kg	1	2.00	84	70 -	
	obenzene (4-BFB)			1.93	mg/Kg	1	2.00	96	70 -	
Laboratory: Analysis: QC Batch: Prep Batch:	Lubbock Chloride (Titratio 119331 100917	,	Date Samj	lytical Met Analyzed ple Prepar	: 201 ation: 201 RL	I 4500-Cl B 15-02-12 15-02-12		Prep Met Analyzed Prepared	By:	N/A HJ HJ
Parameter Chloride		Flag	Cert	I	Result 978	Units mg/Kg		Dilution 5		RL 5.00
		Qs				0, 0				
Sample: 386	3169 - SP									
-										
Laboratory:	Midland	1 - NEW		Analytical	Method:	TX1005		Prep Met	hod:	N/A
aboratory: Analysis:	Midland TX1005 Extended	d - NEW		Analytical Date Anal		TX1005 2015-02-16		Prep Met Analyzed		N/ASC
Laboratory: Analysis: QC Batch:	Midland	d - NEW		Date Anal		TX1005 2015-02-16 2015-02-11		Prep Met Analyzed Prepared	By:	N/A SC SC
Laboratory: Analysis: QC Batch:	Midland TX1005 Extended 119373	d - NEW		Date Anal	lyzed: reparation:	2015-02-16		Analyzed	By:	\dot{SC}
Laboratory: Analysis: QC Batch: Prep Batch:	Midland TX1005 Extended 119373			Date Anal Sample Pr	lyzed: reparation: RL	2015-02-16 2015-02-11		Analyzed Prepared	By:	SĊ SC
Laboratory: Analysis: QC Batch: Prep Batch: Parameter	Midland TX1005 Extended 119373	Flag	Cert	Date Anal Sample Pr	lyzed: reparation: RL Result	2015-02-16 2015-02-11 Units		Analyzed Prepared Dilution	By: S By: S	SC SC RL
Laboratory: Analysis: QC Batch: Prep Batch: Parameter C6-C12	Midland TX1005 Extended 119373	Flag Jb,Qs	Cert 5	Date Anal Sample Pr	lyzed: reparation: RL Result <50.0	2015-02-16 2015-02-11 Units mg/Kg		Analyzed Prepared Dilution 1	By: S By: S	SC SC RL 50.0
Laboratory: Analysis: QC Batch: Prep Batch: Parameter C6-C12	Midland TX1005 Extended 119373	Flag	Cert	Date Anal Sample Pr	lyzed: reparation: RL Result	2015-02-16 2015-02-11 Units		Analyzed Prepared Dilution	By: S By: S	SC SC RL
Laboratory: Analysis: QC Batch: Prep Batch: Parameter C6-C12	Midland TX1005 Extended 119373	Flag Jb,Qs	Cert 5	Date Anal Sample Pr	lyzed: reparation: RL Result <50.0	2015-02-16 2015-02-11 Units mg/Kg mg/Kg	pike	Analyzed Prepared Dilution 1	By: S By: S	SC SC 8C 50.0 50.0
Laboratory: Analysis: QC Batch: Prep Batch: Parameter C6-C12 >C12-C35	Midland TX1005 Extended 119373	Flag Jb,Qs	Cert 5	Date Anal Sample Pr	lyzed: reparation: RL Result <50.0 <50.0	2015-02-16 2015-02-11 Units mg/Kg mg/Kg	- - -	Analyzed Prepared Dilution 1 1	By: S By: S	SC SC <u>RL</u> 50.0 50.0 wery
Laboratory: Analysis: QC Batch: Prep Batch: Parameter C6-C12 >C12-C35	Midland TX1005 Extended 119373 100901 Flag	Flag Jb,Qs Qs	Cert ⁵ 5	Date Anal Sample Pr I	lyzed: reparation: RL Result <50.0 <50.0 Dilu	2015-02-16 2015-02-11 Units mg/Kg mg/Kg Sp tion Am	pike	Analyzed Prepared Dilution 1 1 Percent	By: S By: S Reco	SC SC 50.0 50.0 wery nits
Sample: 386 Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter C6-C12 >C12-C35 Surrogate n-Triacontane n-Octane	Midland TX1005 Extended 119373 100901 Flag	Flag Jb,Qs Qs	Cert ⁵ 5 Result	Date Anal Sample Pr I Units	lyzed: reparation: RL Result <50.0 <50.0 Dilu g 1	2015-02-16 2015-02-11 Units mg/Kg mg/Kg tion Am	pike	Analyzed Prepared Dilution 1 1 Percent Recovery	By: S By: S Reco Lim	SC SC RL 50.0 50.0 overy nits 130

Method Blanks

	QC Batch: 119256				
QC Batch: 119256 Prep Batch: 100810		Date Analyzed: QC Preparation:	2015-02-11 2015-02-09	Analyzed Prepared	v
-		• 1	MDI	-	v
Parameter	Flag	Cert	MDL Result	Units	RL
Benzene	0	5	< 0.00533		0.02
Toluene		5	< 0.00645		0.02
Ethylbenzene		5	< 0.0116	mg/Kg	0.02
Xylene		5	< 0.00874	mg/Kg	0.02
				Spike Percent	Recovery
Surrogate	Flag	Cert Result	Units Dilution	Amount Recovery	Limits
Trifluorotoluene (TFT)		1.67	mg/Kg 1	2.00 84	70 - 130
4-Bromofluorobenzene ((4-BFB)	1.98	mg/Kg 1	2.00 99	70 - 130
Method Blank (1) QC Batch: 119331	QC Batch: 119331	Date Analyzed:	2015-02-12	Analyzed	By: HJ
QC Batch: 119331	QC Batch: 119331	Date Analyzed: QC Preparation:	2015-02-12 2015-02-11	Analyzed Prepared	
QC Batch: 119331 Prep Batch: 100917	-	QC Preparation:	2015-02-11 MDL	Prepared	By: HJ
QC Batch: 119331	QC Batch: 119331 Flag	•	2015-02-11		
QC Batch: 119331 Prep Batch: 100917 Parameter Chloride Method Blank (1)	-	QC Preparation: Cert	2015-02-11 MDL Result <3.05	Prepared Units mg/Kg	By: HJ RL 5
QC Batch: 119331 Prep Batch: 100917 Parameter Chloride Method Blank (1) QC Batch: 119373	Flag	QC Preparation: Cert 1 Date Analyzed:	2015-02-11 MDL Result <3.05 2015-02-16	Prepared Units mg/Kg Analyzed	By: HJ RL 5 By: SC
QC Batch: 119331 Prep Batch: 100917 Parameter Chloride Method Blank (1) QC Batch: 119373	Flag	QC Preparation: Cert	2015-02-11 MDL Result <3.05	Prepared Units mg/Kg	By: HJ RL 5 By: SC
QC Batch: 119331 Prep Batch: 100917 Parameter Chloride Method Blank (1) QC Batch: 119373 Prep Batch: 100901	Flag QC Batch: 119373	QC Preparation: <u>Cert</u> 1 Date Analyzed: QC Preparation:	2015-02-11 MDL Result <3.05 2015-02-16 2015-02-11 MDL	Prepared Units mg/Kg Analyzed Prepared	By: HJ RL 5 By: SC By: SC
QC Batch: 119331 Prep Batch: 100917 Parameter Chloride Method Blank (1) QC Batch: 119373 Prep Batch: 100901 Parameter	Flag	QC Preparation: Cert 1 Date Analyzed:	2015-02-11 MDL Result <3.05 2015-02-16 2015-02-11 MDL Result	Prepared Units mg/Kg Analyzed Prepared Units	By: HJ RL 5 By: SC By: SC RL
QC Batch: 119331 Prep Batch: 100917 Parameter Chloride Method Blank (1) QC Batch: 119373 Prep Batch: 100901	Flag QC Batch: 119373	QC Preparation: <u>Cert</u> 1 Date Analyzed: QC Preparation:	2015-02-11 MDL Result <3.05 2015-02-16 2015-02-11 MDL	Prepared Units mg/Kg Analyzed Prepared	By: HJ RL 5 By: SC By: SC

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Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	Qsr	Qsr		147	mg/Kg	1	100	147	70 - 130
n-Octane	Qsr	Qsr		137	$\mathrm{mg/Kg}$	1	100	137	70 - 130
n-Tricosane	Qsr	Qsr		147	$\mathrm{mg/Kg}$	1	100	147	70 - 130

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 119	9256	Date Analyzed:	2015-02-11	Analyzed By:	AK
Prep Batch: 100	0810	QC Preparation:	2015-02-09	Prepared By:	AK

			LCS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene		5	1.55	mg/Kg	1	2.00	< 0.00533	78	70 - 130
Toluene		5	1.57	m mg/Kg	1	2.00	$<\!0.00645$	78	70 - 130
Ethylbenzene		5	1.66	m mg/Kg	1	2.00	< 0.0116	83	70 - 130
Xylene		5	5.10	m mg/Kg	1	6.00	< 0.00874	85	70 - 130

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

			LCSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene		5	1.57	mg/Kg	1	2.00	< 0.00533	78	70 - 130	1	20
Toluene		5	1.62	$\mathrm{mg/Kg}$	1	2.00	$<\!0.00645$	81	70 - 130	3	20
Ethylbenzene		5	1.73	$\mathrm{mg/Kg}$	1	2.00	< 0.0116	86	70 - 130	4	20
Xylene		5	5.24	$\mathrm{mg/Kg}$	1	6.00	< 0.00874	87	70 - 130	3	20

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

	LCS	LCSD			Spike	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.73	1.66	mg/Kg	1	2.00	86	83	70 - 130
4-Bromofluorobenzene (4-BFB)	1.93	1.92	$\mathrm{mg/Kg}$	1	2.00	96	96	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: Prep Batch:	•									By: HJ By: HJ
				LCS			Spike	Matrix		Rec.
Param		\mathbf{F}	С	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride			1	2400	mg/Kg	5	2500	<15.2	96	85 - 115
Democrat mason	rome is based on t	ha anilea nagu	14 DI	DD is hasad	l on the mil	a and a	ile duralizat	o nogult		

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

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control spikes continued											
			LCSD			Spike	Matrix		Rec.		RPD
Param	F	С	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
			LCSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	С	Result	Units		Amount	Result	Rec.	Limit	RPD	Limit
Chloride		1	2350	mg/K	g 5	2500	$<\!\!15.2$	94	85 - 115	2	20
Laboratory Control Spike (L	CS-1)									
QC Batch: 119373			Dat	e Analyz	ed: 20	15-02-16			Ana	lyzed B	y: SC
Prep Batch: 100901	QC Preparation: 2015-02-11 Prepared By: SC										
				T CC			0.1	м	, .		D
Param		F	С	LCS Result	Units	Dil.	Spike Amount		atrix esult R	ec.	Rec. Limit
C6-C12		Г	5	1000000000000000000000000000000000000	mg/Kg		250				$\frac{11111}{75 - 125}$
>C12-C35			5	251	mg/Kg		$\frac{250}{250}$				75 - 12
Percent recovery is based on the s	spike	resu	lt. RPD	is based	-, -,		pike duplica	ate resi	ult.		
			LCSD			Spike	Matrix		Rec.		RPE
Param	\mathbf{F}	С	Result			Amount	Result	Rec.	Limit	RPD	Limi
C6-C12		5	239	mg/K	0	250	9.54	92	75 - 125	6	20
>C12-C35		5	266	mg/K	•	250	<7.50	106	75 - 125	6	20
Percent recovery is based on the s	spike	resu	lt. RPD	is based	on the s	pike and sp	pike duplica	ate resi	ult.		
							Spike	LC	S LCS	D	Rec.
·		LCS	LC		TT .	D.1	-				т
Surrogate	R	esult	Res	sult	Units	Dil.	Amount	Re	c. Red		Limit
Surrogate n-Triacontane	R	esult 96.9	Res 98	sult 8.5 i	mg/Kg	1	Amount 100	Re 97	c. Rec 7 98	,	70 - 130
Surrogate n-Triacontane n-Octane n-Tricosane	R	esult	Res 98 99	sult 3.5 1 9.0 1			Amount	Re	c. Rec 7 98 5 99	,	Limit 70 - 130 70 - 130 70 - 130

Matrix Spikes

Matrix Spike (MS-1)	Spiked Sample: 386169
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QC Batch:	119256	Date Analyzed:	2015-02-11	Analyzed By:	AK
Prep Batch:	100810	QC Preparation:	2015-02-09	Prepared By:	AK

			MS			Spike	Matrix		Rec.
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Benzene		5	1.56	mg/Kg	1	2.00	< 0.00533	78	70 - 130
Toluene		5	1.69	m mg/Kg	1	2.00	0.0673	81	70 - 130
Ethylbenzene		5	1.81	$\mathrm{mg/Kg}$	1	2.00	0.0357	89	70 - 130
Xylene		5	5.80	mg/Kg	1	6.00	0.376	90	70 - 130

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

			MSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Benzene		5	1.57	mg/Kg	1	2.00	< 0.00533	78	70 - 130	1	20
Toluene		5	1.67	$\mathrm{mg/Kg}$	1	2.00	0.0673	80	70 - 130	1	20
Ethylbenzene		5	1.81	$\mathrm{mg/Kg}$	1	2.00	0.0357	89	70 - 130	0	20
Xylene		5	5.82	mg/Kg	1	6.00	0.376	91	70 - 130	0	20

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

	${ m MS}$	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	1.66	1.69	mg/Kg	1	2	83	84	70 - 130
4-Bromofluorobenzene (4-BFB)	1.99	1.92	$\mathrm{mg/Kg}$	1	2	100	96	70 - 130

Matrix Spike (MS-1) Spiked Sample: 386189

QC Batch: Prep Batch:	· ·									•	By: HJ By: HJ
					MS			Spike	Matrix		Rec.
Param			\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride				1	5280	m mg/Kg	5	2500	3030	90	80 - 120
	• 1	1 /1	•1	1, 11	1		1	•1 1 1• /	1.		

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

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matrix spikes continued			MSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
			MSD			Spike	Matrix		Rec.		RPD
Param	F	С	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	Qs Qs	1	4840	mg/Kg	5	0.00	3030	72	80 - 120	9	20
Percent recovery is based on the	he spike	result.	. RPD i	s based on	the sp	ike and sp	ike duplica	ite resi	ult.		
- 、 , -	iked Sar	nple: 3		A 1 1	001	5 00 10			1	1.0	a.a.
QC Batch: 119373 Prep Batch: 100901				Analyzed: Preparation		5-02-16 5-02-11				yzed B ared By	/
				1.10			~				-
				MS			Spike	M	atrix		Rec.
		F	C I	Result	Units	Dil.	Amount	Re	esult Re		Limit
C6-C12	Qs	F	5	Result 381	mg/Kg	1	Amount 250	Re 5	esult Ro	30	Limit 75 - 125
C6-C12 >C12-C35	Qs	$Q_{\rm S}$ $Q_{\rm S}$	5 5	Result 381 1730	m mg/Kg $ m mg/Kg$	1 1	Amount 250 250	Re 5	esult Ro 66.1 1: 962 30	30	Limit 75 - 125
C6-C12 >C12-C35	Qs	$Q_{\rm S}$ $Q_{\rm S}$	5 5	Result 381 1730	m mg/Kg $ m mg/Kg$	1 1	Amount 250 250	Re 5	esult Ro 66.1 1: 962 30	30	Limit 75 - 125
C6-C12 >C12-C35 Percent recovery is based on th	_{Qs} he spike	Qs Qs result	5 5 . RPD i MSD	Result 381 1730 s based on	mg/Kg mg/Kg 1 the sp	1 1 vike and sp Spike	Amount 250 250 ike duplica Matrix	Re 5 9 ute resu	esult R 6.1 1: 962 30 11t. Rec.	30 (07 (Limit 75 - 12 75 - 12 75 - 12
C6-C12 >C12-C35 Percent recovery is based on the Param	Qs	$Q_{\rm S}$ $Q_{\rm S}$	⁵ 5 . RPD i MSD Result	Result 381 1730 s based on Units	mg/Kg mg/Kg 1 the sp Dil.	1 1 ike and sp Spike Amount	Amount 250 250 ike duplica Matrix Result	Rec.	esult R 66.1 1; 962 30 ilt. Rec. Limit Ker.	30 07	Limit 75 - 125 75 - 125 RPD Limit
C6-C12 >C12-C35 Percent recovery is based on the Param C6-C12	_{Qs} he spike F	Qs Qs result C 5	⁵ 5 . RPD i MSD Result 346	Result 381 1730 s based on Units mg/Kg	mg/Kg mg/Kg a the sp Dil. 1	1 1 ike and sp Spike Amount 250	Amount 250 250 ike duplica Matrix Result 56.1	Rec. 116	esult R 66.1 1; 962 30 1lt. Rec. Limit 75 - 125	30 07 RPD 10	Limit 75 - 125 75 - 125 RPD Limit 20
C6-C12 >C12-C35 Percent recovery is based on th Param C6-C12 >C12-C35	Qs he spike F Qs Qs	Qs Qs result C 5 5	⁵ 5 . RPD i MSD Result 346 1580	Result 381 1730 s based on Units mg/Kg mg/Kg	mg/Kg mg/Kg 1 the sp Dil. 1 1	1 1 ike and sp Spike Amount 250 250	Amount 250 250 ike duplica Matrix Result 56.1 962	Rec. 116 247	Result Ref 66.1 1: 962 30 ilt. Rec. Limit 75 - 125 75 - 125 75 - 125	30 07 RPD	Limit 75 - 129 75 - 129 RPD Limi
C6-C12 >C12-C35 Percent recovery is based on th Param C6-C12 >C12-C35	Qs he spike F Qs Qs	Qs Qs result C 5 5	⁵ 5 . RPD i MSD Result 346 1580	Result 381 1730 s based on Units mg/Kg mg/Kg	mg/Kg mg/Kg 1 the sp Dil. 1 1	1 1 ike and sp Spike Amount 250 250	Amount 250 250 ike duplica Matrix Result 56.1 962	Rec. 116 247	Result Ref 66.1 1: 962 30 ilt. Rec. Limit 75 - 125 75 - 125 75 - 125	30 07 RPD 10	Limit 75 - 128 75 - 128 RPD Limit 20
C6-C12 >C12-C35 Percent recovery is based on th Param C6-C12 >C12-C35 Percent recovery is based on th	Qs he spike F Qs Qs	Qs Qs result. 5 5 result. MS	5 5 . RPD i MSD Result 346 1580 . RPD i	Result 381 1730 s based on Units mg/Kg mg/Kg s based on ISD	mg/Kg mg/Kg i the sp Dil. 1 1 i the sp	1 1 ike and sp Spike Amount 250 250 ike and sp	Amount 250 250 ike duplica Matrix Result 56.1 962 ike duplica Spike	Rec. 116 247	Result Ref 66.1 1; 962 30 ilt. Rec. Limit 75 - 125 75 - 125 11t. MS MS	80 07 RPD 10 9 D	Limit 75 - 125 75 - 125 RPD Limit 20 20 Rec.
C6-C12 >C12-C35 Percent recovery is based on th Param C6-C12 >C12-C35 Percent recovery is based on th Surrogate	Qs he spike F Qs Qs	Qs Qs result. C 5 5 result. MS Result	⁵ ⁵ MSD Result 346 1580 . RPD i M t Re	Result 381 1730 s based on Units mg/Kg mg/Kg s based on ISD esult	mg/Kg mg/Kg i the sp Dil. 1 1 i the sp Units	1 1 ike and sp Spike Amount 250 250 ike and sp Dil.	Amount 250 250 ike duplica Matrix Result 56.1 962 ike duplica Spike Amount	Rec. 116 247 MR Rec.	Result Ref 66.1 1; 962 30 ilt. Rec. Limit 75 - 125 75 - 125 115. ilt. MS MS MS ec. Re	30 07 RPD 10 9 D c.	Limit 75 - 129 75 - 129 75 - 129 Limi 20 20 Rec. Limit
C6-C12 >C12-C35 Percent recovery is based on th Param C6-C12 >C12-C35 Percent recovery is based on th Surrogate n-Triacontane Qsr Qsr	Qs he spike F Qs Qs	Qs Qs result. C 5 5 result. MS Result 136	5 5 MSD Result 346 1580 . RPD i M t Re	Result 381 1730 s based on Units mg/Kg mg/Kg s based on ISD esult 118 n	mg/Kg mg/Kg a the sp Dil. 1 1 a the sp Units mg/Kg	1 1 ike and sp Spike Amount 250 250 ike and sp Dil. 1	Amount 250 250 ike duplica Matrix Result 56.1 962 ike duplica Spike Amount 100	Rec. 116 247 tte resu M R 1	esult Radia 66.1 1; 962 30 ilt. Rec. Limit 75 - 125 75 - 125 125 ilt. MS MS MS ec. Re 36 11	80 07 RPD 10 9 D c. 8	Limit 75 - 12! 75 - 12! RPD Limi 20 20 Rec. Limit 70 - 130
Param C6-C12 >C12-C35 Percent recovery is based on the statement of the stat	Qs he spike F Qs Qs	Qs Qs result. C 5 5 result. MS Result	5 5 . RPD i MSD Result 346 1580 . RPD i . RPD i t Ref	Result 381 1730 s based on Units mg/Kg mg/Kg s based on ISD esult 118 113	mg/Kg mg/Kg i the sp Dil. 1 1 i the sp Units	1 1 ike and sp Spike Amount 250 250 ike and sp Dil.	Amount 250 250 ike duplica Matrix Result 56.1 962 ike duplica Spike Amount	Rec. 116 247 tte resu Rec. 116 247 tte resu R 1 1	Result Ref 66.1 1; 962 30 ilt. Rec. Limit 75 - 125 75 - 125 115. ilt. MS MS MS ec. Re	RPD 10 9 D c. 8 3	Limit 75 - 125 75 - 125 RPD Limit 20 20 Rec.

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Calibration Standards

Standard (CCV-1)

QC Batch: 119256			Date An	alyzed: 20	Analyzed By: AK			
				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		5	mg/kg	0.100	0.0893	89	80 - 120	2015-02-11
Toluene		5	m mg/kg	0.100	0.0869	87	80 - 120	2015-02-11
Ethylbenzene		5	m mg/kg	0.100	0.0882	88	80 - 120	2015-02-11
Xylene		5	m mg/kg	0.300	0.266	89	80 - 120	2015-02-11

Standard (CCV-2)

QC Batch: 119256			Date An	alyzed: 20	Analyzed By: AK			
				CCVs	CCVs	CCVs	Percent	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Benzene		5	mg/kg	0.100	0.0942	94	80 - 120	2015-02-11
Toluene		5	m mg/kg	0.100	0.0929	93	80 - 120	2015-02-11
Ethylbenzene		5	m mg/kg	0.100	0.0927	93	80 - 120	2015-02-11
Xylene		5	mg/kg	0.300	0.280	93	80 - 120	2015-02-11

Standard (ICV-1)

QC Batch:	119331			Date A	Analyzed:	2015-02-12		Analy	vzed By: HJ
					ICVs	ICVs	ICVs	Percent	
					True	Found	Percent	Recovery	Date
Param		Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride			1	m mg/Kg	100	100	100	85 - 115	2015-02-12

Standard (CCV-1)

QC Batch: 119331

Date Analyzed: 2015-02-12

Analyzed By: HJ

-	Report Date: February 16, 2015 7250715011.04			Work Orde Avalo	Page Number: 19 of 21			
Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/Kg	100	100	100	85 - 115	2015-02-12
Standard (C	CV-1)							
QC Batch: 1	19373		Date	Analyzed:	2015-02-16		Analy	zed By: SC
				CCVs	CCVs	CCVs	Percent	

				00 05	0015	0015	1 CICCIII	
				True	Found	Percent	Recovery	Date
Param	Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
C6-C12		5	mg/Kg	250	223	89	75 - 125	2015-02-16
>C12-C35		5	mg/Kg	250	264	106	75 - 125	2015-02-16

Standard (CCV-2)

QC Batch:	119373			Analyzed By: SC					
					$\rm CCVs$	CCVs	CCVs	Percent	
					True	Found	Percent	Recovery	Date
Param		Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
C6-C12			5	mg/Kg	250	223	89	75 - 125	2015-02-16
>C12-C35			5	m mg/Kg	250	291	116	75 - 125	2015-02-16

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Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

	Certifying	Certification	Laboratory
С	Authority	Number	Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	PJLA	L14-93	Lubbock
2	Kansas	Kansas E-10317	Lubbock
3	LELAP	LELAP-02003	Lubbock
4	NELAP	T104704219-14-10	Lubbock
5	NELAP	T104704392-14-8	Midland
6		2014-018	Lubbock

Standard Flags

- F Description
- B Analyte detected in the corresponding method blank above the method detection limit
- H Analyzed out of hold time
- J Estimated concentration
- Jb The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
- Je Estimated concentration exceeding calibration range.
- MI1 Split peak or shoulder peak
- MI2 Instrument software did not integrate
- MI3 Instrument software misidentified the peak
- MI4 Instrument software integrated improperly
- MI5 Baseline correction
- Qc Calibration check outside of laboratory limits.
- Qr RPD outside of laboratory limits
- Qs Spike recovery outside of laboratory limits.

Report Date: February 16, 2015 7250715011.04 $\,$

Work Order: 15020913 Avalon Lake Page Number: 21 of 21 $\,$

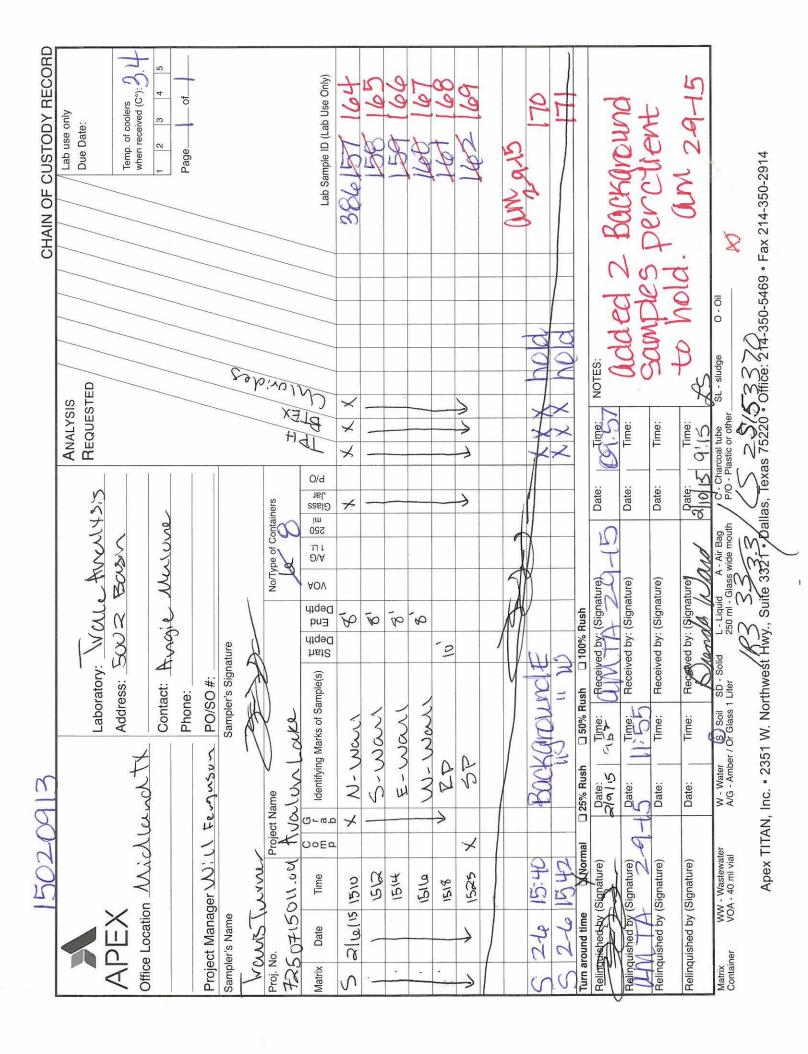
F Description

Qsr Surrogate recovery outside of laboratory limits.

U The analyte is not detected above the SDL

Attachments

The scanned attachments will follow this page. Please note, each attachment may consist of more than one page.





6701 Aberdeen Avenue, Suite 9 200 East Sunset Road, Suite E 5002 Basin Street, Suite A1 (BioAquatic) 2501 Mayes Rd., Suite 100

Lubbock, Texas 79424 Texas 79922 El Paso, Texas 79703 Midland. Carroliton. Texas 75006

915-585-3443 E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

432-689-6301 FAX 432 • 689 • 6313 972-242 -7750

Certifications

WBE HUB **NCTRCA** DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Karolanne Toby APEX/Titan 2351 W. Northwest Hwy. Suite 3321 Dallas, Tx, 75220

Report Date: April 22, 2015

FAX 915 • 585 • 4944

Work Order: 15042102

Project Location: Midland, TX **Project Name:** Lake Avalon Project Number: 7250715011.001

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
391272	BKG-1	soil	2015-04-20	17:35	2015-04-21
391273	BKG-2	soil	2015-04-20	17:40	2015-04-21

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 10 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Slain Lefturch

Dr. Blair Leftwich, Director James Taylor, Assistant Director Brian Pellam, Operations Manager

Report Contents

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Method Blanks QC Batch 120961 - Method Blank (1)	5 5
Laboratory Control Spikes QC Batch 120961 - LCS (1)	6 6
Matrix Spikes QC Batch 120961 - MS (1)	7 7
Calibration Standards QC Batch 120961 - ICV (1) QC Batch 120961 - CCV (1)	8 8 8
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Case Narrative

Samples for project Lake Avalon were received by TraceAnalysis, Inc. on 2015-04-21 and assigned to work order 15042102. Samples for work order 15042102 were received intact at a temperature of 14.5 C.

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

		Prep	Prep	\mathbf{QC}	Analysis
Test	Method	Batch	Date	Batch	Date
Chloride (Titration)	SM 4500-Cl B $$	102361	2015-04-22 at 13:35	120961	2015-04-22 at 13:36

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 15042102 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.

Analytical Report

Sample: 391272 - BKG-1

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 120961 102361	Date An	al Method: alyzed: Preparation:	SM 4500-Cl B 2015-04-22 2015-04-22	Prep Method: Analyzed By: Prepared By:	'
			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride			2390	m mg/Kg	5	4.00

Sample: 391273 - BKG-2

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 120961 102361	Date A	cal Method: nalyzed: Preparation:	SM 4500-Cl B 2015-04-22 2015-04-22	Prep Method: Analyzed By: Prepared By:	ÉM
			RL			
Parameter	Flag	Cert	Result	Units	Dilution	RL
Chloride			1340	m mg/Kg	5	4.00

Method Blanks

QC Batch: 120961				
	Date Analyzed: QC Preparation:	2015-04-22 2015-04-22		
Flam	Cont	MDL Bogult	I.n.:ta	DI
Flag	Cert	Kesult <3.85		$\frac{\text{RL}}{4}$
	QC Batch: 120961 Flag	Date Analyzed: QC Preparation:	Date Analyzed: 2015-04-22 QC Preparation: 2015-04-22 MDL Flag Cert Result	Date Analyzed: 2015-04-22 Analyzed By: QC Preparation: 2015-04-22 Prepared By: MDL Flag Cert Result Units

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 120961 Prep Batch: 102361				Analyze Preparati		5-04-22 5-04-22				lyzed By pared By	
Denem		F	C I	LCS	TT:+	Dil	Spike		atrix	D	Rec.
Param		F	C 1	Result	Units	Dil.	Amount	ne	esult l	Rec.	Limit
Chloride				2390	mg/Kg	5	2500	<	19.2	96	85 - 115
Percent recovery is based of	n the spike	e resu	lt. RPD	is based	on the sp	pike and sp	oike duplic	ate resi	ılt.		
			LCSD			Spike	Matrix		Rec.		RPD
Param	\mathbf{F}	\mathbf{C}	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride			2390	mg/Kg	5	2500	$<\!19.2$	96	85 - 115	0	20

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

Matrix Spikes

Matrix Spike (MS-1) Spike	l Sam	ple: 39	91273								
QC Batch: 120961 Prep Batch: 102361				Analyze Preparati		15-04-22 15-04-22			•	yzed By ared By:	
Param	F	С		${ m MS}$ esult	Units	Dil.	Spike Amount		atrix esult Rec		Rec. Limit
Chloride			3	8830	$\mathrm{mg/Kg}$	5	2500	1	350 99	78.	.9 - 121
Percent recovery is based on the s	spike r	esult.	RPD	is based	on the s	spike and s	pike dupli	cate re	sult.		
		Ν	ISD			Spike	Matrix		Rec.		RPD
Param	F (C R	esult	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride		3	730	mg/Kg	5	2500	1350	95	78.9 - 121	3	20

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

Calibration Standards

Standard (ICV-1)

QC Batch:	120961			Date A	analyzed:	2015-04-22		Analy	zed By: EM
					ICVs	ICVs	ICVs	Percent	
					True	Found	Percent	Recovery	Date
Param		Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride				mg/Kg	100	100	100	85 - 115	2015-04-22

Standard (CCV-1)

QC Batch:	120961			Date A	Analyzed:	2015-04-22		Analy	zed By: EM
					CCVs	CCVs	CCVs	Percent	
					True	Found	Percent	Recovery	Date
Param		Flag	Cert	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride				mg/Kg	100	100	100	85 - 115	2015-04-22

Page Number: 9 of 10 Midland, TX

Appendix

Report Definitions

NameDefinitionMDLMethod Detection LimitMQLMinimum Quantitation LimitSDLSample Detection Limit

Laboratory Certifications

	Certifying	Certification	Laboratory
С	Authority	Number	Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis

Standard Flags

- F Description
- B Analyte detected in the corresponding method blank above the method detection limit
- H Analyzed out of hold time
- J Estimated concentration
- Jb The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
- Je Estimated concentration exceeding calibration range.
- MI1 Split peak or shoulder peak
- MI2 Instrument software did not integrate
- MI3 Instrument software misidentified the peak
- MI4 Instrument software integrated improperly
- MI5 Baseline correction
- Qc Calibration check outside of laboratory limits.
- Qr RPD outside of laboratory limits
- Qs Spike recovery outside of laboratory limits.
- Qsr Surrogate recovery outside of laboratory limits.
- U The analyte is not detected above the SDL

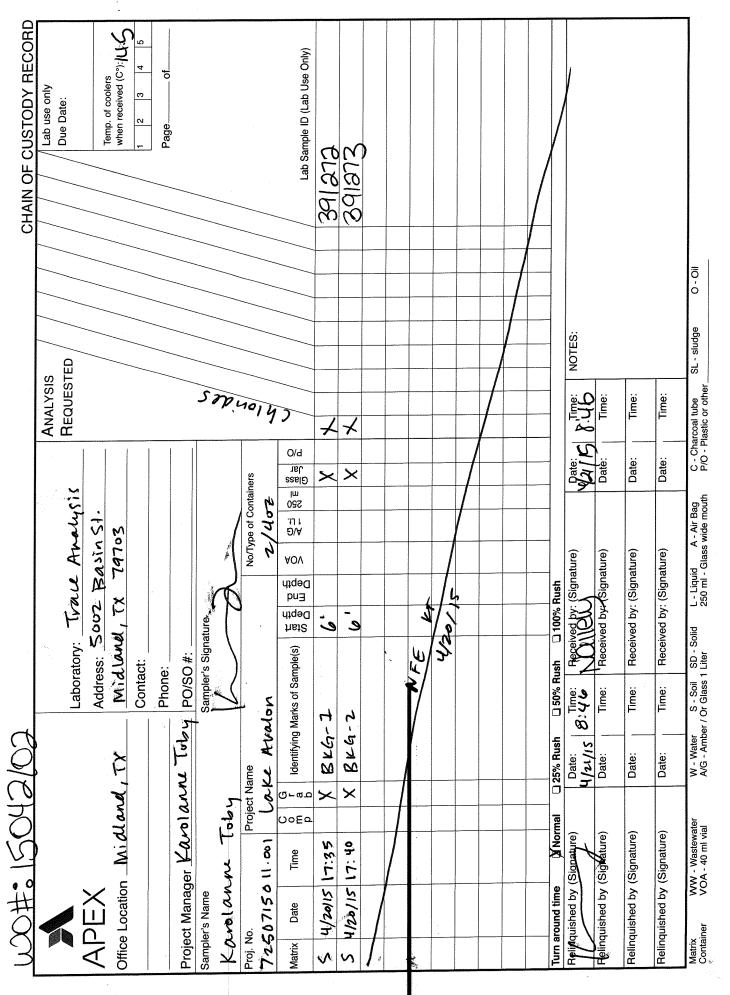
Attachments

Report Date: April 22, 2015 7250715011.001

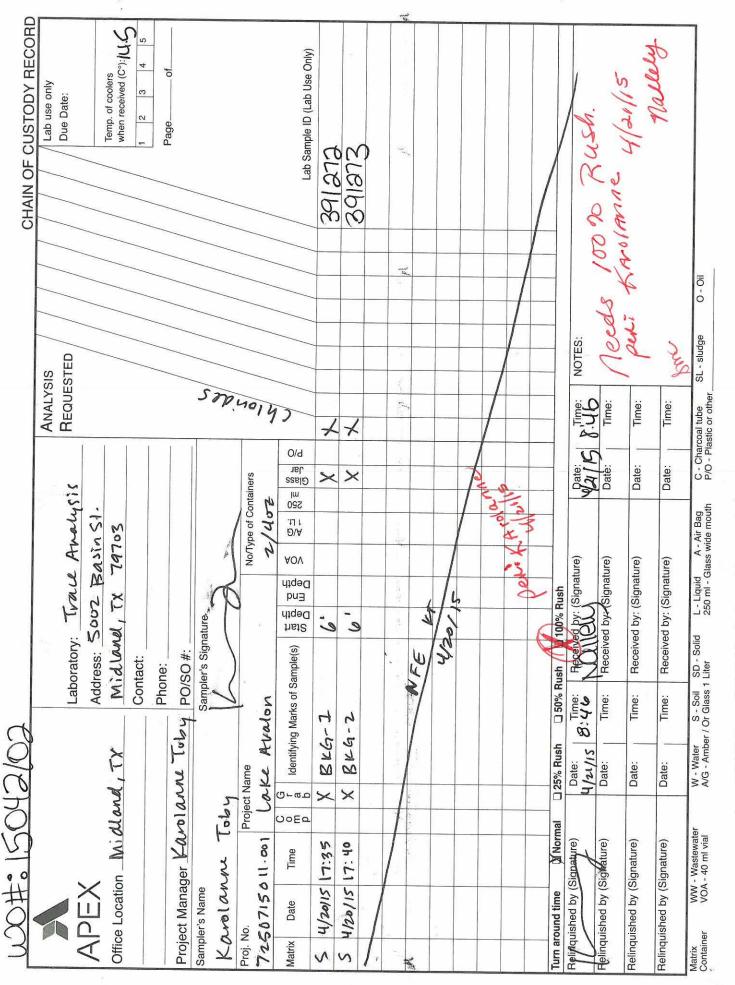
Work Order: 15042102 Lake Avalon Page Number: 10 of 10 Midland, TX

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.



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	LEA LAND DIS MILE MARKER #64 US HWY							KIC	0
	1300 WEST MAIN ST		ND, LLC A CITY, OK 73106 • 1	PHÓNE ((405) 23	6-4257	Sp-	teli)
NO	N-HAZARDOUS WASTE MANIF	EST NO	108654	1. PA	GE	0F	2. TRAIL	ER NO.	FID
G	3. COMPANY NAME Enterprise Products	4. ADDRESS 2162 Commerci					-UP DATE 5/2015		
9	PHONE NO.	CITY	STATE		ZIP	6. TNR	CC I.D. NO		
E	(432) 230-1414	Midland	TX 79703	18 CON	ITAINE	RSLO	TOTAL	10. UNIT	11. TEXAS
	7. NAME OR DESCRIPTION OF WASTE SHIPPE			No.	Тур	e QI	JANTITY	Wt/Vol.	WASTE ID #
N	Non-Regulated. Non Hazardous Waste	2		1	CM				
E	b.								
Ĩ	с.								
R	41.520 45.18	0.49	120						
	12. COMMENTS OR SPECIAL INSTRUCTIONS: 082083 PIPELINE RIGHTAWAY HWY	/ 2016	1 1 1	- 07	2	13	. WASTE P		0. 8582
A			IAI 135	5 <u>, 8'</u> x	(D)				
т	14. IN CA NAME Kin Slaughter	SE OF EMERC PHONE NO 575-387-4048	SENCY OR SPIL	<u>, CO</u>	NTAC	T	24-HOUR	EMERGEI	NCY NO.
0	15. GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, and international and national government regulations, in	d labeled, and are in a	Il respects in proper co	ondition f	for transp	port by I	ughway acc	ording to a	pplicable
R	PRINTED/TYPED NAME		SIGNATURE						DATE
Т	16. TRANSPORTER (1)		17.	T	RANS	PORT	'ER (2)		
R A	NAME: SOTELO'S TRUCKIN	<u>NG</u>	NAME:						
N S	TEXAS I.D. NO.		TEXAS I.D. NO.						
Р	IN CASE OF EMERGENCY CONTACT:	OSE SOTELO	IN CASE OF EME	ERGENC	Y CON	TACT:			
O R		706-3842	EMERGENCY PH						
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RS	SIGNATURE Arnoldo NAME Arnoldo	Nevana	PRINTED/TYPEI						
	SIGNATURE Arac 20 No. 10	DATE STO	2015 SIGNATURE				D	ATE	
	Lea Land, LLC	ADDRESS:	e Marker 64, U.	C LL.	n. 6 1 /	100	PHONE:	575 00	7-4048
D F I A			Miles East of Ca		<i>w</i>			575-00	/-4040
I A S C P I O L	PERMIT NO. WM-01-035 - New Mex	ico	20. COMMENTS						
S I A T	21.DISPOSAL FACILITY'S CERTIFIC, facility is authorized and permitted to receive such w	ATION: I Hereby of astes.	certify that the above of	lescrihed	wastes	were de	livered to th	is facility, t	hat the
LY	AUTHORIZED SIGNATURE	Oar	CELL NO.		D	^{АТБ} 5/1	5/2015	TIN	1E. 15
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			AND, LLC					1
NO			0MA CITY, OK 73106 • 108655		405) 236-4 GEOF_		Hell) <u>5</u>
NU	N-HAZARDOUS WASTE MANI		T00000	1. PA		PICK-UP DATE		<u>2013</u>
G	3. COMPANY NAME Enterprise Products	4. ADDRESS 2162 Comm	erce		1	5/15/2015	2	
	PHONE NO.	CITY	STATE		ZIP 6.1	FNRCC I.D. NO),	
E	(432) 230-1414	Midland	TX 79703					
	7. NAME OR DESCRIPTION OF WASTE SHIP	PED:		S, CON No.	TAINERS	9. TOTAL OUANTITY	10. UNIT Wt/Vol.	11. TEXA WASTE II
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	12. COMMENTS OR SPECIAL INSTRUCTION	S:				13. WASTE F	PROFILE N	10,
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	I4. IN C	ASE OF EME	RGENCY OR SPII	LL, CO	NTACT			
Т	NAME Kin Slaughter	PHONE NO 575-887-40	18			24-HOUR	R EMERGE	NCY NO.
	15.GENERATOR'S CERTIFICATION	: I Hereby declare	that the contents of this c	onsignme	nt are fully	and accurately	described a	above by pro
0	shipping name and are classified, packed, marked, a international and national government regulations,	and labeled, and are	in all respects in proper c	ondition f	or transport	by highway ac	cording to a	pplicable
	5		e state regulations, and an	e the same	 materials 	previously appr	roved by LE	A LAND L
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