FINAL C-141 AND CLOSURE REPORT

RECEIVEL State of New Mexico Energy Minerals and Natural Resources JUN 10 2010 Submit 2 Copies to appropriate Division HORREOOD Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 side of form Santa Fe, NM 87505 **Release Notification and Corrective Action OPERATOR** Initial Report **x** Final Report Name of Company Fasken Oil and Ranch, Ltd. Contact Jimmy D. Carlile Address 303 W. Wall, Ste 1800 Midland, TX Telephone No. 432 687-1777 Facility Name Facility Type Denton SWD No. 5 SWD Surface Owner Mineral Owner Lease No. State State LOCATION OF RELEASE Unit Letter Section Township Feet from the North/South Line East/West Line Range Feet from the County Ν 2 15S 37E 660 South 1980 West Lea Latitude Longitude NATURE OF RELEASE Volume of Release Volume Recovered Type of Release salt water 80 Date and Hour of Discovery Source of Release Date and Hour of Occurrence flowline Was Immediate Notice Given? If YES, To Whom? 9/29/08 9/30/08 Yes X No Not Required midnight 9 am By Whom? Date and Hour Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. Yes No If a Watercourse was Impacted, Describe Fully.* NA Describe Cause of Problem and Remedial Action Taken.* Poly line separated from fiberglass tee. Area production was shutin. Line has been repaired. Describe Area Affected and Cleanup Action Taken.* The area was excavated to 4' - 5' and a liner installed. 7118 cubic yards of material was hauled to Sundance outside of Eunice. 7118 cubic yards of cleanssoil (tested prior to backfilling) was placed into the excavation. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature: ENV ENCIMER? Approved by District Supervisor: Printed Name: Timmt D Title: Regulatory Affairs Coor. Approval Date: 06/1 7/10 **Expiration Date** E-mail Address: jimmyc@forl.com Conditions of Approval: Attached Phone4326871777 IRP-1968 Date: 4/26/10

* Attach Additional Sheets If Necessary



May 6, 2010

HOBBOULD

Mr. Geoff Leking District 1, New Mexico Oil Conservation Division 1625 North French Drive Hobbs, New Mexico 88240

RE: Denton SWD #5 Produced Water Flowline Surface Release – Risk-Based Remedial Closure

Mr. Leking,

On behalf of Fasken Oil and Ranch, LTD (Fasken), Talon/LPE (Talon) provides this closure letter, transmitting the final Form C-141 and copies of the analytical data from the site excavation and backfill activities to the New Mexico Oil Conservation Division (NMOCD) District 1 Office.

Background

Fasken Oil and Ranch, LTD experienced a produced water release from a poly-line at the Denton SWD #5 on September 29, 2008. Initial estimates documented the volume of released material at 80 barrels (bbls) with approximately 5 barrels initially recovered. The surface expression of the release was measured as approximately 150 feet by 200 feet. Fasken subsequently contracted Safety and Environmental Solutions (SES) to perform site delineation activities (December 2008). This report, entitled "Denton SWD #5/Delineation Report, December 22, 2008" was previously supplied to the NMOCD by Fasken.

Shallow soils at the site range from sandy loam (surface to approximately 3.5 feet below grade) to silty clays (encountered predominantly in the northern portion of the excavation at approximately 3.5 feet below grade). Caliche is also present within the excavation limits, first encountered in the central portion of the excavation at a depth of 2 feet below ground surface (bgs). Based on the information obtained from soil borings performed by SES, caliche and sandstone bedrock are prevalent in the subsurface to at least the total depth of the borings at approximately 30 feet bgs.

Information from the State Engineer's records and information from off-site monitoring wells suggests that groundwater beneath the site is present at between 50 feet and 75 feet bgs.

Excavation/Sampling

Talon was retained by Fasken to perform soil excavation activities at the Denton SWD #5 release site in July 2009, and began those activities on

AMARILLO 921 North Bivins Amarillo. Texas 79107 Phone 806.467.0607 Fax 806.467.0622

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

> AUSTIN 911 West Anderson Lane Suite 202 Austin, Texas 78757 Phone 512,989,3428 Fax 512,989,3487

HOBBS

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

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

SAN ANTONIO 17170 Jordan Rd Suite 102 Selma, Texas 78154 Phone 210,265,8025 Fax 210,568,2191

TULSA 525 South Main Street Suite 535 Tulsa, Oklahoma 74103 Phone 918.742.0871 Fax 918.382.0232

ENVIRONMENTAL CONSULTING ENGINEERING DRILLING CONSTRUCTION SPILL MANAGEMENT GENERAL CONTRACTING August 8, 2009. Excavation and sampling activities continued intermittently until December 2010. Over 7,000 cubic yards of material were transported to Sundance Services, Inc. for internment (manifests attached). Although delineation activities were previously performed, both field samples and samples for laboratory analyses were collected during the course of the remedial activities. The first analytical samples (Comp-1 and Comp-2, and BH2C, BH-4C, BH-6C, and BH-10C) collected during the excavation activities were obtained on August 18, 2009 (attached). Subsequently, on October 7, 2010, samples B-1A through B-14A were collected for laboratory analyses (attached). Sample locations for the final sampling event are presented on Figure 1 (attached). Sample times, analyses, and locations were coordinated with the NMOCD District 1 office, and an NMOCD representative was on-site during sampling activities.

Closure Activities

All analytical results were forwarded to the NMOCD, and on January 19, 2010, the NMOCD provided a letter of approval for a risk-based closure at the Denton SWD #5 (attached). The final excavation dimensions measured approximately 200 feet E/W by 220 feet N/S, in an "L" shape around the northwest corner of the tank battery pad. The depth of the excavation ranged from 4 feet bgs to 6 feet bgs.

The bottom of the excavation was prepared, and int the presence of the NMOCD, the impermeable liner was placed to prevent downward percolation of rainwater through any remaining chloride-affected material. Subsequent to the liner installation, the site was backfilled with "like" material from a nearby borrow pit. Analytical results for the backfill material (Backfill 1 – Backfill 5) are attached. The site was reseeded on March 4-5, 2010 (NMSLO Revegetation Form is attached) with the approved seed mixture.

Respectfully Submitted,

HIM

Kyle Summers Talon/LPE - Artesia

Attachments:

Laboratory Reports Topographic Map and Site Map Revegetation Form Photographs NMOCD Closure Approval Initial and Final Form C-141 Disposal Manifests

New Mexico State Land Office

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(505) 827-5723	P.O. Box 1148
(575) 392-8736	2702-D N. Grimes
(575) 885-1323	N. Canal, Suite B
(575) 623-4979	1001 S. Atkinson
(575) 763-0796	105 E. 6 th St.

Santa Fe, NM 87504 Hobbs, NM 88240 Carlsbad, NM 88220 Roswell, NM 88210 Clovis, NM 88101



REVEGETATION FORM

1. General and	rmanon					
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Company Name: /	Fasken	Oil + Ranch	LTD	Contact Nam	e: Jimmy C	arlile
Phone no.:			Email: jim	myc@forl.co	m	
Address: Hwy 8	2 E. of	Lovinaton			··· · · · · · · · · · · · · · · · · ·	······································
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by: Sail Nieto Simon

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Denton SWD= 5

Broadcast Seeder

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Summary Report

Kyle Summers Talon LPE-Midland 2901 State Highway 349 Midland, TX 79706

Report Date: August 21, 2009

Work Order: 9081938

Project Location:Lea County, NMProject Name:Denton #5 SWDProject Number:701014.013.01

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
206665	Comp. 1	soil	2009-08-18	14:30	2009-08-19
206666	Comp. 2	soil	2009-08-18	14:40	2009-08-19

Sample: 206665 - Comp. 1

Param	Flag	Result	Units	RL
Chloride		4350	mg/Kg	4.00

Sample: 206666 - Comp. 2

Param	Flag	Result	Units	\mathbf{RL}
Chloride		3940	mg/Kg	4.00



Certifications

WBENC: 237019

HUB:1752439743100-86536NCTRCAWFWB38444Y0909

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

Kyle Summers Talon LPE-Midland 2901 State Highway 349 Midland, TX, 79706

Report Date: August 21, 2009

Work Order: 9081938

Project Location:Lea County, NMProject Name:Denton #5 SWDProject Number:701014.013.01

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
206665	Comp. 1	soil	2009-08-18	14:30	2009-08-19
206666	Comp. 2	soil	2009-08-18	14:40	2009-08-19

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

Blain Leptinich

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

Standard Flags

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

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Case Narrative

Samples for project Denton #5 SWD were received by TraceAnalysis, Inc. on 2009-08-19 and assigned to work order 9081938. Samples for work order 9081938 were received intact at a temperature of 6.0 deg. 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	53504	2009-08-20 at 08:51	62712	2009-08-20 at 15:25

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 9081938 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: 206665 - Comp. 1

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	62712	Date Analyzed:	2009-08-20	Analyzed By:	\mathbf{AR}
Prep Batch:	53504	Sample Preparation:	2009-08-20	Prepared By:	AR
		RL			
Parameter	\mathbf{Flag}	Result	Units	Dilution	\mathbf{RL}
Chloride		4350	mg/Kg	100	4.00

Sample: 206666 - Comp. 2

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	62712	Date Analyzed:	2009-08-20	Analyzed By:	AR
Prep Batch:	53504	Sample Preparation:	2009-08-20	Prepared By:	AR
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		3940	mg/Kg	100	4.00

Method Blank (1) QC Batch: 62712

QC Batch: Prep Batch:	62712 53504		Date Analyzed: QC Preparation:	2009-08-20 2009-08-20		Analyzed By: Prepared By:	AR AR
Parameter		Flag	MI Reso	DL 1lt	Units		\mathbf{RL}
Chloride			<2.	18	mg/Kg		4

Laboratory Control Spike (LCS-1)

QC Batch: Prep Batch:	$62712 \\ 53504$	Date QC I	Analyzed: Preparation:	2009-08-2 2009-08-2	0 0	Analyzed Prepared	l By: AR l By: AR	
Param		LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		98.8	mg/Kg	1	100	<2.18	99	85 - 115

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

701014.013.	e: August 21, 01	2009		Work Or Dento	rder: 90819 n #5 SWD	38			Page Num Lea C	ber: 5 of 5 ounty, NM
Param		LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec Limi	it RPI	RPD Limit
Chloride		99.7	mg/Kg	1	100	<2.18	100	85 - 1	15 1	20
Percent reco	overy is based	on the spike result.	RPD is b	ased on t	the spike an	ıd spike du	plicate r	esult.		
Matrix Spi	ike (MS-1)	Spiked Sample: 2	06699							
QC Batch:	62712		Date Ana	alyzed:	2009-08-2	0			Analyzed	By: AR
Prep Batch:	53504		QC Prep	aration:	2009-08-2	0			Prepared	By: AR
		М	S			Spike	Ma	trix		Rec.
Param		Res	ult l	Units	Dil.	Amount	Re	sult	Rec.	\mathbf{Limit}
Chloride		102	и 00	ıg/Kg	100	10000	<:	218	100	85 - 115
Percent reco	overy is based	on the spike result.	RPD is b	ased on t	he spike an	nd spike du	plicate r	esult.		
		MSD			Spike	Matrix		Rec		BDU
Рагаш		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec Limi	t RPI	RPD Limit
Param Chloride		MSD Result 10300	Units mg/Kg	Dil. 100	Spike Amount 10000	Matrix Result <218	Rec. 101	Rec Limi 85 - 1	t RPI 15 1	RPD Limit 20
Param Chloride Percent reco Standard (wery is based	MSD Result 10300 on the spike result.	Units mg/Kg RPD is b	Dil. 100 ased on (Spike Amount 10000 the spike an	Matrix Result <218 ad spike dup	Rec. 101 plicate r	Rec Limi 85 - 1 esult.	<u>t RPI</u> 15 1	RPD Limit 20
Param Chloride Percent reco Standard (QC Batch:	wery is based ICV-1) 62712	MSD Result 10300 on the spike result.	Units mg/Kg RPD is b Date Ana	Dil. 100 ased on t	Spike Amount 10000 the spike an 2009-08-20	Matrix Result <218 ad spike dup	Rec. 101 plicate r	Rec Limi 85 - 1 esult.	t <u>RPI</u> 15 <u>1</u> Analyzed	RPD Limit 20 By: AR
Param Chloride Percent reco Standard (QC Batch:	very is based ICV-1) 62712	MSD Result 10300 on the spike result.	Units mg/Kg RPD is b Date Ana ICVs	Dil. 100 ased on t lyzed: IC	Spike Amount 10000 the spike an 2009-08-20 Vs	Matrix Result <218 Id spike dup	Rec. 101 plicate r	Rec Limi 85 - 1 esult. Percent	t RPI 15 1 Analyzed	RPD Limit 20 By: AR
Param Chloride Percent reco Standard (QC Batch:	wery is based ICV-1) 62712	MSD Result 10300 on the spike result.	Units mg/Kg RPD is b Date Ana ICVs True	Dil. 100 ased on t llyzed: IC Fot	Spike Amount 10000 the spike an 2009-08-20 Vs ind	Matrix Result <218 ad spike dup ICVs Percent	Rec. 101 plicate r	Rec Limi 85 - 1 esult. Percent Recover:	t RPI 15 1 Analyzed	RPD Limit 20 By: AR Date
Param Chloride Percent reco Standard (QC Batch: Param	very is based ICV-1) 62712 Flag	MSD Result 10300 on the spike result. Units	Units mg/Kg RPD is b Date Ana ICVs True Conc.	Dil. 100 ased on t ilyzed: IC Fou Co	Spike Amount 10000 the spike an 2009-08-20 Vs md nc.	Matrix Result <218 ad spike dup ICVs Percent Recovery	Rec. 101 plicate r	Rec Limi 85 - 1 esult. Percent Recover Limits	t RPI 15 1 Analyzed	RPD Limit 20 By: AR Date Analyzed
Param Chloride Percent reco Standard (QC Batch: Param Chloride	wery is based ICV-1) 62712 Flag	MSD Result 10300 on the spike result. Units mg/Kg	Units mg/Kg RPD is b Date Ana ICVs True Conc. 100	Dil. 100 ased on t ilyzed: IC Fou Co 99	Spike Amount 10000 the spike an 2009-08-20 Vs md nc. .5	Matrix Result <218 ad spike dup ICVs Percent Recovery 100	Rec. 101 plicate r	Rec Limi 85 - 1 esult. Percent Recover: Limits 85 - 115	t RPI 15 1 Analyzed	RPD Limit 20 By: AR Date Analyzed 009-08-20
Param Chloride Percent reco Standard (QC Batch: Param Chloride Standard (Divery is based ICV-1) 62712 Flag CCV-1)	MSD Result 10300 on the spike result. Units mg/Kg	Units mg/Kg RPD is b Date Ana ICVs True Conc. 100	Dil. 100 ased on (ased on (Ilyzed: IC For Co 99	Spike Amount 10000 the spike an 2009-08-20 Vs ind nc. .5	Matrix Result <218 ad spike dup ICVs Percent Recovery 100	Rec. 101 plicate r	Rec Limi 85 - 1 esult. Percent Recover: Limits 85 - 115	t RPI 15 1 Analyzed	RPD Limit 20 By: AR Date Analyzed 009-08-20
Param Chloride Percent reco Standard (QC Batch: Param Chloride Standard (QC Batch:	wery is based ICV-1) 62712 Flag CCV-1) 62712	MSD Result 10300 on the spike result. Units mg/Kg	Units mg/Kg RPD is b Date Ana ICVs True Conc. 100 Date Ana	Dil. 100 ased on t llyzed: IC Fou Co 99	Spike <u>Amount</u> 10000 the spike an 2009-08-20 Vs ind inc. .5	Matrix Result <218 ad spike dup ICVs Percent Recovery 100	Rec. 101 plicate r	Rec Limi 85 - 1 esult. Percent Recover Limits 85 - 115	t RPI 15 1 Analyzed	RPD Limit 20 By: AR Date Analyzed 009-08-20 By: AR
Param Chloride Percent reco Standard (QC Batch: Param Chloride Standard (QC Batch:	very is based ICV-1) 62712 Flag CCV-1) 62712	MSD Result 10300 on the spike result. Units mg/Kg	Units mg/Kg RPD is b Date Ana ICVs True Conc. 100 Date Ana CCVs	Dil. 100 ased on 6 llyzed: IC Fou Co 99 llyzed: CC	Spike Amount 10000 the spike an 2009-08-20 Vs ind nc. .5 2009-08-20	Matrix Result <218 ad spike dup ICVs Percent Recovery 100 CCVs	Rec. 101 plicate r	Rec Limi 85 - 1 esult. Percent Recover: Limits 85 - 115	t RPI 15 1 Analyzed	RPD Limit 20 By: AR Date Analyzed 009-08-20 By: AR
Param Chloride Percent reco Standard (QC Batch: Param Chloride Standard (QC Batch:	Divery is based (ICV-1) 62712 Flag CCV-1) 62712	MSD Result 10300 on the spike result. Units mg/Kg	Units mg/Kg RPD is b Date Ana ICVs True Conc. 100 Date Ana CCVs True	Dil. 100 ased on t ased on t Ilyzed: Fou Co 99 Ilyzed: CC Fou	Spike Amount 10000 the spike an 2009-08-20 Vs ind nc. 2009-08-20 Vs ind	Matrix Result <218 ad spike dup ICVs Percent Recovery 100 CCVs Percent	Rec. 101 plicate r	Rec Limi 85 - 1 esult. Percent Recover: Limits 85 - 115 Percent Recover:	t RPI 15 1 Analyzed	RPD Limit 20 By: AR Date Analyzed 009-08-20 By: AR Date
Param Chloride Percent reco Standard (QC Batch: Param Chloride Standard (QC Batch: Param	wery is based ICV-1) 62712 Flag CCV-1) 62712 Flag	MSD Result 10300 on the spike result. Units mg/Kg	Units mg/Kg RPD is b Date Ana ICVs True Conc. 100 Date Ana CCVs True Conc.	Dil. 100 ased on t lyzed: IC Fou Co 99 lyzed: CC Fou Co	Spike Amount 10000 the spike an 2009-08-20 Vs and nc. 2009-08-20 Vs and nc.	Matrix Result <218 ad spike dup ICVs Percent Recovery 100 CCVs Percent Recovery	Rec. 101 plicate r	Rec Limi 85 - 1 esult. Percent Recover Limits 85 - 115 Percent Recover Limits	t RPI 15 1 Analyzed y Analyzed	RPD Limit 20 By: AR Date <u>Analyzed</u> 009-08-20 By: AR Date Analyzed

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Summary Report

Kyle Summers Talon LPE-Midland 2901 State Highway 349 Midland, TX 79706

Report Date: August 21, 2009

Work Order: 9081937

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Project Location:Lea County, NMProject Name:Denton #5 SWDProject Number:701014.013.01

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
206661	BH-2C	soil	2009-08-18	14:50	2009-08-19
206662	BH-4C	soil	2009-08-18	14:55	2009-08-19
206663	BH-6C	soil	2009-08-18	15:00	2009-08-19
206664	BH-10C	soil	2009-08-18	15:10	2009-08-19

Sample: 206661 - BH-2C

Param	Flag	Result	Units	RL
Chloride		3270	mg/Kg	4.00

Sample: 206662 - BH-4C

Param	Flag	Result	Units	\mathbf{RL}
Chloride	·	3580	mg/Kg	4.00

Sample: 206663 - BH-6C

Param	Flag	Result	Units	RL
Chloride		3810	mg/Kg	4.00

Sample: 206664 - BH-10C

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.

Report Date: Augu	ust 21, 2009	Work Order: 9081937	×	Page Number: 2 of 2
Param	Flag	Result	Units	RL
Chloride		1320	mg/Kg	4.00



6701 Aherdeen Avenue, Suite 9Lubbock, Texas 79424200 East Sunset Road, Suite EEl Paso, Texas 799225002 Basin Street, Suite A1Midland, Texas 797036015 Harris Parkway, Suite 110Ft. Worth, Texas 76132

Lubbock, Texas 79424 800 • 378 • 1296 El Paso, Texas 79922 888 • 588 • 3443 Midland, Texas 79703 t. Worth, Texas 76132 E-Mail: lab@traceanalysis.com

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FAX 806 • 794 • 1298 FAX 915 • 585 • 4944 FAX 432 • 689 • 6313

WBENC: 237019

HUB:1752439743100-86536NCTRCAWFWB38444Y0909

Certifications

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

Kyle Summers Talon LPE-Midland 2901 State Highway 349 Midland, TX, 79706

Report Date: August 21, 2009

Work Order: 9081937

Project Location:Lea County, NMProject Name:Denton #5 SWDProject Number:701014.013.01

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
206661	BH-2C	soil	2009-08-18	14:50	2009-08-19
206662	BH-4C	soil	2009-08-18	14:55	2009-08-19
206663	BH-6C	soil	2009-08-18	15:00	2009-08-19
206664	BH-10C	soil	2009-08-18	15:10	2009-08-19

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

Blain Lepturch

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

Standard Flags

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

Case Narrative

Samples for project Denton #5 SWD were received by TraceAnalysis, Inc. on 2009-08-19 and assigned to work order 9081937. Samples for work order 9081937 were received intact at a temperature of 6.0 deg. 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	53503	2009-08-20 at 08:51	62711	2009-08-20 at 15:24

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 9081937 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: 206661 - BH-2C

Chloride		3270	mg/Kg	100	4.00
Parameter	Flag	RL Result	Units	Dilution	RL
Prep Batch:	53503	Sample Preparation:	2009-08-20	Prepared By:	\mathbf{AR}
QC Batch:	62711	Date Analyzed:	2009-08-20	Analyzed By:	\mathbf{AR}
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Laboratory:	Midland				

Sample: 206662 - BH-4C

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	62711	Date Analyzed:	2009-08-20	Analyzed By:	\mathbf{AR}
Prep Batch:	53503	Sample Preparation:	2009-08-20	Prepared By:	AR
		\mathbf{RL}			
Parameter	\mathbf{Flag}	\mathbf{Result}	Units	Dilution	\mathbf{RL}
Chloride		3580	mg/Kg	100	4.00

Sample: 206663 - BH-6C

Chloride		3810	mg/Kg	100	4.00
Parameter	Flag	RL Result	Units	Dilution	\mathbf{RL}
Prep Batch:	53503	Sample Preparation:	2009-08-20	Prepared By:	AR
QC Batch:	62711	Date Analyzed:	2009-08-20	Analyzed By:	\mathbf{AR}
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Laboratory:	Midland				

Sample: 206664 - BH-10C

Prep Batch:	53503	Sample Preparation:	2009-08-20	Prepared By:	AR
QC Batch:	62711	Date Analyzed:	2009-08-20	Analyzed By:	\mathbf{AR}
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Laboratory:	Midland				

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sample 206664 c	ontinued										
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			1320	• • • • • •	IIIg/ I	ing		•			4.00
Method Blank	(1) QC Bat	tch: 62711									
QC Batch: 62	711		Date A	nalyzed:	2009-08-2	0			Ana	lyzed By	y: AR
Prep Batch: 53	503		QC Pre	eparation:	2009-08-2	0			Preț	pared By	: AR
				M	DL						
Parameter]	Flag		Res	ult		Unit	ts			RL
Chloride				<2	.18		mg/1	Ag			4
QC Batch: 62 Prep Batch: 53	711 503		Date A QC Pre	nalyzed: eparation:	2009-08-2 2009-08-2	0 0			Anal Prep	lyzed By pared By	y: AR v: AR
		LC	CS			Spike	Ma	trix			Rec.
Param		Res	sult	Units	Dil.	Amount	Re	sult	Re	с.	Limit
Chloride		99	.0	mg/Kg	1	100	<2	.18	99) {	85 - 115
Percent recovery	is based on the s	pike result.	RPD is	based on t	the spike ar	ıd spike duj	plicate r	esult.			
		LCSD			Spike	Matrix		Re	ec.		RPD
Param	··· · · · · · · · · · · · · · · · · ·	\mathbf{Result}	Units	Dil.	Amount	Result	Rec.	Lir	nit	RPD	Limit
Chloride		101	mg/Kg	g 1	100	<2.18	101	85 -	115	2	20
Percent recovery	is based on the s	pike result.	RPD is	based on t	he spike ar	ıd spike duj	plicate r	esult.			
Matrix Spike (MS-1) Spiked	l Sample: 20	06664								
QC Batch: 622	711		Date A	nalyzed:	2009-08-2	0			Anal	yzed By	: AR
Prep Batch: 53	503		QC Pre	paration:	2009-08-20	0			Prep	ared By	: AR
		M	S			Spike	Ma	trix			Rec.
D		D	-				-	•	_		
Param		Rest	ult	Units	Dil.	Amount	Res	sult	Ree	2.	Limit

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

Report Dat 701014.013	te: August 21, .01	2009	· · · · · · · · · · · · · · · · · · ·	Work Or Dentor	der: 90819 1 #5 SWD	Page Number: 6 of 6 Lea County, NM				
Donom		MSD	IIn:ta	נינד	Spike	Matrix	Daa	Rec.	תתת	RPD Limit
Param Chlorida		11800	Units mg/Kg	<u> </u>	Amount	Result 1320	$\frac{\text{Rec.}}{105}$	Limit 85 - 115	$\frac{\text{RPD}}{3}$	<u></u>
Percent reco	overy is based	on the spike result.	RPD is ba	ased on the	he spike ar	Id spike du	plicate r	result.		
Standard	(ICV-1) 62711		Date Ana	lvzed: 2	2009-08-20			Ana	alvzed By	r: AR
4.			ICVs	TCI		ICVa		Doncont	j j	
			True	Fou	vs nd	Porcont		Recovery		Data
Param	Flag	Units	Conc.	Cor	nu nc.	Recovery		Limits	Ar	alyzed
Chloride		mg/Kg	100	10	2	102		85 - 115	200	9-08-20
Standard QC Batch:	(CCV-1) 62711		Date Ana	lyzed: 2	2009-08-20			Ana	alyzed By	: AR
			CCVs	CC.	Vs	$\rm CCVs$		Percent		
			True	Fou	nd	Percent		Recovery]	Date
Param	Flag	Units	Conc.	Cor	nc.	Recovery		Limits	An	alyzed
Chloride		mg/Kg	100	98.	.3	98	· <u></u>	85 - 115	200	9-08-20

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Summary Report

Kyle Summers ' Talon LPE-Midland 2901 State Highway 349 Midland, TX 79706

Report Date: October 14, 2009

Work Order: 9100928

Project Location:	Lea County, NM
Project Name:	Denton #5 SWD
Project Number:	701014.013.01

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
212098	B-1A	soil	2009-10-07	16:00	2009-10-09
212099	B-2A	soil	2009-10-07	15:50	2009-10-09
212100	B-3A	soil	2009-10-07	15:45	2009-10-09
212101	B-4A	soil	2009-10-07	15:40	2009-10-09
212102	B-5A	soil	2009-10-07	15:35	2009-10-09
212103	B-6A	soil	2009-10-07	15:30	2009-10-09
212104	B-7A	soil	2009-10-07	15:25	2009-10-09
212105	B-8A	soil	2009-10-07	15:20	2009-10-09
212106	B-9A	soil	2009-10-07	15:15	2009-10-09
212107	B-10A	soil	2009-10-07	15:10	2009-10-09
212108	B-11A	soil	2009-10-07	15:05	2009-10-09
212109	B-12A	soil	2009-10-07	15:00	2009-10-09
212110	B-13A	soil	2009-10-07	14:55	2009-10-09
212111	B-14A	soil	2009-10-07	15:55	2009-10-09

Sample: 212098 - B-1A

Param	Flag	Result	Units	RL
Chloride		2080	mg/Kg	4.00

Sample: 212099 - B-2A

Param	Flag	Result	Units	\mathbf{RL}
Chloride		1670	mg/Kg	4.00

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Report Date: October 14, 2009		Work Order: 9100928	Page	Number: 2 of 3
Sample: 212100 - B-	3A			
Param	Flag	Result	Units	RL
Chloride		2470	mg/Kg	4.00
Sample: 212101 - B-	4A			
Param	Flag	Result	Units	\mathbf{RL}
Chloride		3530	mg/Kg	4.00
Sample: 212102 - B-	5A			
Param	Flag	Result	Units	\mathbf{RL}
Chloride		5340	mg/Kg	4.00
Sample: 212103 - B-	6A			
Param	Flag	Result	Units	\mathbf{RL}
Chloride		4320	mg/Kg	4.00
Sample: 212104 - B-'	7A			
Param	Flag	Result	Units	RL
Chloride		5340	mg/Kg	4.00
Sample: 212105 - B-8	8A			
Param	Flag	Result	Units	\mathbf{RL}
Chloride		5240	mg/Kg	4.00
Sample: 212106 - B-9	9A			
Param	Flag	Result	Units	\mathbf{RL}
Chloride		1210	mg/Kg	4.00
Sample: 212107 - B-1	10A			
Param	Flag	Result	Units	\mathbf{RL}
Chloride		4420	mg/Kg	4.00

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Report Date: October 14, 2009		Work Order: 9100928	P:	age Number: 3 of 3
Sample: 212108	- B-11A			
Param	Flag	Result	Units	RL
Chloride		405	mg/Kg	4.00
Sample: 212109	- B-12A			
Param	Flag	Result	Units	RL
Chloride		1980	mg/Kg	4.00
Sample: 212110	- B-13A			
Param	Flag	Result	Units	\mathbf{RL}
Chloride		319	mg/Kg	4.00
Sample: 212111 ·	· B-14A			
Param	Flag	Result	Units	RL
Chloride	·····	3650	mg/Kg	4.00



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 Midland, Texas 79703

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 FAX 432•689•6313

 817•201•5260
 FAX 432•689•6313

WBENC: 237019

HUB:1752439743100-86536NCTRCAWFWB38444Y0909

Certifications

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

Kyle Summers Talon LPE-Midland 2901 State Highway 349 Midland, TX, 79706

Report Date: October 14, 2009

Work Order: 9100928

Project Location:Lea County, NMProject Name:Denton #5 SWDProject Number:701014.013.01

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
212098	B-1A	soil	2009-10-07	16:00	2009-10-09
212099	B-2A	soil	2009-10-07	15:50	2009-10-09
212100	B-3A	soil	2009-10-07	15:45	2009-10-09
212101	B-4A	soil	2009-10-07	15:40	2009-10-09
212102	B-5A	soil	2009-10-07	15:35	2009-10-09
212103	B-6A	soil	2009-10-07	15:30	2009-10-09
212104	B-7A	soil	2009-10-07	15:25	2009-10-09
212105	B-8A	soil	2009-10-07	15:20	2009-10-09
212106	B-9A	soil	2009-10-07	15:15	2009-10-09
212107	B-10A	soil	2009-10-07	15:10	2009-10-09

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
212108	B-11A	soil	2009-10-07	15:05	2009-10-09
212109	B-12A	soil	2009-10-07	15:00	2009-10-09
212110	B-13A	soil	2009-10-07	14:55	2009-10-09
212111	B-14A	soil	2009-10-07	15:55	2009-10-09

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.

Michael april

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

Standard Flags

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

Case Narrative

Samples for project Denton #5 SWD were received by TraceAnalysis, Inc. on 2009-10-09 and assigned to work order 9100928. Samples for work order 9100928 were received intact at a temperature of 13.0 deg. 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	54965	2009-10-12 at 13:48	64408	2009-10-13 at 15:47
Chloride (Titration)	SM 4500-Cl B	54966	2009-10-12 at $13:48$	64409	2009-10-13 at 15:48

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 9100928 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: 212098 - B-1A

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	64408	Date Analyzed:	2009-10-13	Analyzed By:	\mathbf{AR}
Prep Batch:	54965	Sample Preparation:	2009-10-12	Prepared By:	AR
		RL			
Parameter	Flag	\mathbf{Result}	Units	Dilution	RL
Chloride		2080 1	ng/Kg	100	4.00

Sample: 212099 - B-2A

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	64408	Date Analyzed:	2009-10-13	Analyzed By:	AR
Prep Batch:	54965	Sample Preparation:	2009-10-12	Prepared By:	AR
		\mathbf{RL}			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		1670 1	ng/Kg	100	4.00

Sample: 212100 - B-3A

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 64408 54965	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2009-10-13 2009-10-12	Prep Method: Analyzed By: Prepared By:	N/A AR AR
		RL			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		2470	mg/Kg	100	4.00

Sample: 212101 - B-4A

Prep Batch:	54965	Sample Preparation	: 2009-10-12	Prepared By:	\mathbf{AR}
QC Batch:	64408	Date Analyzed:	2009-10-13	Analyzed By:	\mathbf{AR}
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Laboratory:	Midland				

continued ...

Report Date: October 14, 2009	Work Order: 9100928	Page Number: 5 of 10
701014.013.01	Denton #5 SWD	Lea County, NM

sample 212101 continued ...

		\mathbf{RL}			
Parameter	Flag	Result	Units	Dilution	RL
		\mathbf{RL}			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		3530	mg/Kg	100	4.00

Sample: 212102 - B-5A

Chloride	3	5340	mg/Kg	100	4.00
Parameter	Flag	RL Result	Units	Dilution	RL
Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 64408 54965	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2009-10-13 2009-10-12	Prep Method: Analyzed By: Prepared By:	N/A AR AR

Sample: 212103 - B-6A

Chloride		4320	mg/Kg	100	4.00
Parameter	Flag	RL Result	Units	Dilution	\mathbf{RL}
QC Batch: Prep Batch:	64408 54965	Date Analyzed: Sample Preparati	2009-10-13 on: 2009-10-12	Analyzed By: Prepared By:	AR AR
Laboratory: Analysis:	Midland Chloride (Titration)	Analytical Metho	d: SM 4500-Cl B	Prep Method:	N/A

Sample: 212104 - B-7A

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 64408 54965	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2009-10-13 2009-10-12	Prep Method: Analyzed By: Prepared By:	N/A AR AR
		\mathbf{RL}			
Parameter	Flag	\mathbf{Result}	Units	Dilution	\mathbf{RL}
Chloride		5340 1	ng/Kg	100	4.00

Report Date: October 14, 2009	Work Order: 9100928	Page Number: 6 of 10
701014.013.01	Denton #5 SWD	Lea County, NM

Sample: 212105 - B-8A

Chloride		5240 1	ng/Kg	100	4.00
Parameter	Flag	RL Result	Units	Dilution	RL
Prep Batch:	54965	Sample Preparation:	2009-10-12	Prepared By:	AR
QC Batch:	64408	Date Analyzed:	2009-10-13	Analyzed By:	AR
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Laboratory:	Midland				

Sample: 212106 - B-9A

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 64408 54965	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2009-10-13 2009-10-12	Prep Method: Analyzed By: Prepared By:	N/A AR AR
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride	, <u></u>	1210	mg/Kg	50	4.00

Sample: 212107 - B-10A

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 64408 54965	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2009-10-13 2009-10-12	Prep Method: Analyzed By: Prepared By:	N/A AR AR
		RL			•
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		4420	ng/Kg	100	4.00

Sample: 212108 - B-11A

Chloride		405	mg/Kg	50	4.00
Parameter	Flag	RL Result	Units	Dilution	RL
Prep Batch:	54966	Sample Preparation:	2009-10-12	Prepared By:	\mathbf{AR}
QC Batch:	64409	Date Analyzed:	2009-10-13	Analyzed By:	\mathbf{AR}
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Laboratory:	Midland				

Report Date: October 14, 2009	Work Order: 9100928	Page Number: 7 of 10
701014.013.01	Denton $#5 \text{ SWD}$	Lea County, NM

Sample: 212109 - B-12A

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Chloride		1980	mg/Kg	100	4.00
Parameter	Flag	RL Result	Units	Dilution	RL
Prep Batch:	54966	Sample Preparation:	2009-10-12	Prepared By:	AR
QC Batch:	64409	Date Analyzed:	2009-10-13	Analyzed By:	\mathbf{AR}
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Laboratory:	Midland				

Sample: 212110 - B-13A

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 64409 54966	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2009-10-13 2009-10-12	Prep Method: Analyzed By: Prepared By:	N/A AR AR
		RL			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
Chloride		319	mg/Kg	50	4.00

Sample: 212111 - B-14A

Chloride		3650 r	ng/Kg	100	4.00
Parameter	Flag	RL Result	Units	Dilution	RL
Prep Batch:	54966	Sample Preparation:	2009-10-12	Prepared By:	\mathbf{AR}
QC Batch:	64409	Date Analyzed:	2009-10-13	Analyzed By:	\mathbf{AR}
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
Laboratory:	Midland				

Method Blank (1	l) QC Batch: 64408					
QC Batch: 6440 Prep Batch: 5496	8 5	Date Analyzed: QC Preparation:	2009-10-13 2009-10-12		Analyzed By: Prepared By:	AR AR
		M	DL			
Parameter	Flag	Res	ult	Units		\mathbf{RL}
Chloride		<2	.18	mg/Kg		4

Report Date 701014.013.0	e: October	14, 2009	Work Order: 9100928 Denton #5 SWD				Page Number: 8 of 10 Lea County, NM			
Method Bl	ank (1)	QC Batch: 64409								
QC Batch: Prep Batch:	64409 54966		Date An QC Prei	alyzed: paration:	2009-10-13 2009-10-12			An. Pre	alyzed B pared By	y: AR y: AR
				M	DL					
Parameter		Flag	Result				Unit	S		RL
Chloride				<2	.18		mg/F	<u>(g</u>		4
Laboratory	Control	Spike (LCS-1)								
OC Batch:	64408		Date An	alvzed:	2009-10-13			An	alvzed B [.]	v: AR
Prep Batch:	54965		QC Prep	paration:	2009-10-12			Pre	pared By	y: AR
		L	CS			Spike	Mat	trix		Rec.
Param		Res	sult	Units	Dil.	Amount	Res	sult R	ec.	Limit
Chloride		98	<u>8.9 r</u>	ng/Kg	1	100	<2	.18 9	19	85 - 115
Percent recov	very is base	ed on the spike result.	RPD is b	based on t	the spike and	l spike duj	plicate re	esult.		
		LCSD			Spike	Matrix		Rec.		RPD
Param		Result	\mathbf{Units}	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride		100	mg/Kg	1	100	<2.18	100	85 - 115	1	20
Percent recov	very is base	ed on the spike result.	RPD is b	based on t	the spike and	l spike duj	plicate re	esult.		
Laboratory	Control S	Spike (LCS-1)								
OC Batalu	64400		Data An	alwadi	2000 10 12			A	, Junal D.	A D
Prep Batch:	54966		QC Prep	aryzed: paration:	2009-10-13			Pre	pared By	y: AR
,			•						1 5	
		LC	CS			Spike	Mat	trix		Bec.
Param		Res	ult	Units	Dil.	Amount	Res	ult R	ec.	Limit
Chloride		10	00 m	ng/Kg	1	100	<2.	.18 10	00	85 - 115
Percent recov	very is base	d on the spike result.	RPD is b	ased on t	he spike and	spike dup	olicate re	esult.		
		LCSD			Spike	Matrix		Bec		RPD
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride		98.9	mg/Kg	1	100	<2.18	99	85 - 115	1	20
Percent recov	ery is base	d on the spike result.	RPD is b	ased on t	he spike and	spike dup	olicate re	esult.		
Matrix Spil	ke (MS-1)	Spiked Sample: 2	12107							
OC Batch:	64408		Date An	alvzed:	2009-10-13			Ans	lvzed By	z: AR
Prep Batch:	54965		QC Prep	aration:	2009-10-12			Pre	pared By	r: AR

Report Date: October 14, 2009			Work Order: 9100928				Page Number: 9 of 10			
701014.013	.01		Denton #5 SWD					Lea Cou	inty, NM	
	,	٨	19			Spike	Ma	triv		Roc
Param		Re	sult I	Inits	Dil	Amount	Re	sult Re	20	Limit
Chloride		14	700 m	g/Kg	100	10000	44	20 10)3	85 - 115
Percent reco	overy is based	on the spike result	. RPD is ba	ased on 1	the spike an	d spike dup	olicate r	esult.		· · ·
	-	MSD			Spiko	Motrix		Roc		BDD
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride		14800	mg/Kg	100	10000	4420	104	85 - 115	1	20
Percent reco	overy is based	on the spike result	. RPD is ba	sed on t	the spike an	d spike dup	olicate r	esult.		
Matrix Sp	ike (MS-1)	Spiked Sample: 2	212111							
OC Batch:	64409	A A	Date Ana	lvzed:	2009-10-1:	3		Ana	lvzed B	v: AR
Prep Batch:	54966		QC Prepa	ration:	2009-10-12	2		Pre	pared B	y: AR
		λ	15			Spiko	Ма	trist		Pog
Param		Re	sult I	Inits	Dil.	Amount	Re	sult. Re	20.	Limit
Chloride		14	400 m	g/Kg	100	10000	30	50 10)8	85 - 115
Percent reco	overy is based	on the spike result	. RPD is ba	used on t	he spike an	d spike dup	licate r	esult.		
		MSD			Spike	Matrix		Rec.		RPD
Param		Result	\mathbf{Units}	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride		14300	mg/Kg	100	10000	3650	106	85 - 115	1	20
Percent reco	overy is based	on the spike result	. RPD is ba	sed on t	the spike an	d spike dup	licate r	esult.		
Standard ((ICV-1)									
Standard (QC Batch:	(ICV-1) 64408		Date Ana	lyzed:	2009-10-13			Ana	lyzed B	y: AR
Standard (QC Batch:	(ICV-1) 64408		Date Ana ICVs	lyzed: IC	2009-10-13 Vs	ICVs		Ana Percent	lyzed B	y: AR
Standard (QC Batch:	(ICV-1) 64408		Date Ana ICVs True	lyzed: IC Fou	2009-10-13 Vs 1nd	ICVs Percent]	Ana Percent Recovery	llyzed B	y: AR Date
Standard (QC Batch: Param	(ICV-1) 64408 Flag	Units	Date Ana ICVs True Conc.	lyzed: IC Fou Co	2009-10-13 Vs ind nc.	ICVs Percent Recovery]	Ana Percent Recovery Limits	llyzed B	y: AR Date nalyzed
Standard (QC Batch: Param Chloride	(ICV-1) 64408 Flag	Units mg/Kg	Date Ana ICVs True Conc. 100	lyzed: IC For Co 99	2009-10-13 Vs ind nc. .2	ICVs Percent Recovery 99]	Ana Percent Recovery Limits 85 - 115	lyzed B A 200	y: AR Date nalyzed 09-10-13
Standard (QC Batch: Param Chloride Standard ((ICV-1) 64408 Flag (CCV-1)	Units mg/Kg	Date Ana ICVs True Conc. 100	lyzed: IC Fou Co 99	2009-10-13 Vs ind nc. .2	ICVs Percent Recovery 99]	Ana Percent Recovery Limits 85 - 115	lyzed B A 200	y: AR Date malyzed 09-10-13
Standard (QC Batch: Param Chloride Standard (QC Batch:	(ICV-1) 64408 Flag (CCV-1) 64408	Units mg/Kg	Date Ana ICVs True Conc. 100 Date Ana	lyzed: IC Fot Co 99	2009-10-13 Vs and nc. .2 2009-10-13	ICVs Percent Recovery 99]	Ana Percent Recovery Limits 85 - 115 Ana	lyzed B A 200	y: AR Date nalyzed 09-10-13 7: AR
Standard (QC Batch: Param Chloride Standard (QC Batch:	(ICV-1) 64408 Flag (CCV-1) 64408	Units mg/Kg	Date Ana ICVs True Conc. 100 Date Ana CCVs	lyzed: Fou Co 99	2009-10-13 Vs ind nc. .2 2009-10-13	ICVs Percent Recovery 99]	Ana Percent Recovery Limits 85 - 115 Ana Percent	lyzed B A 200 lyzed B	y: AR Date malyzed D9-10-13
Standard (QC Batch: Param Chloride Standard (QC Batch:	(ICV-1) 64408 Flag (CCV-1) 64408	Units mg/Kg	Date Ana ICVs True Conc. 100 Date Ana CCVs True	lyzed: Fot Co 99 lyzed: CC Fot	2009-10-13 Vs ind nc. .2 2009-10-13 Vs ind	ICVs Percent Recovery 99 CCVs Percent]	Ana Percent Recovery Limits 85 - 115 Ana Percent Recovery	lyzed B A 200 lyzed B	y: AR Date nalyzed)9-10-13 y: AR Date
Standard (QC Batch: Param Chloride Standard (QC Batch: Param	(ICV-1) 64408 Flag (CCV-1) 64408 Flag	Units mg/Kg Units	Date Ana ICVs True Conc. 100 Date Ana CCVs True Conc.	lyzed: Fot Co 99 lyzed: Fot Co	2009-10-13 Vs ind nc. .2 2009-10-13 Vs ind nc.	ICVs Percent Recovery 99 CCVs Percent Recovery]	Ana Percent Recovery Limits 85 - 115 Ana Percent Recovery Limits	lyzed B A 200 lyzed B A	y: AR Date nalyzed 09-10-13 7: AR 7: AR Date nalyzed

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Report Date: October 14, 2009 701014.013.01			Work Order: 9100928 Denton #5 SWD			Page Number: 10 of 10 Lea County, NM			
Standard ((ICV-1)								
QC Batch: 64409			Date Ana	Date Analyzed: 2009-10-13			Analyzed By: AR		
Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed		
Chloride		mg/Kg	100	99.8	100	85 - 115	2009-10-13		
Standard ((CCV-1)								
QC Batch:	64409		Date Anal	Date Analyzed: 2009-10-13			Analyzed By: AR		
Param	Flog	Unite	CCVs True Conc	CCVs Found	CCVs Percent	Percent Recovery	Date		
Chloride	r lag	mg/Kg	100	100	100	<u>85 - 115</u>	2009-10-13		

LAB Order ID #						<u> </u>									 .													Pa	ge_		1		of	2 	• 	
TraceAnaly email: lab@tracear	VSİ nalysis	S 9 s.con	In	IC.	•		6	i701 / Li	Aber ubbo Tel Fax 1 (deen ock, T (806) (806) 800) 3	Aven exas 794- 794- 794- 878-1	iue, S 7942 1296 -1298 1296	Suite 9 24)	5002 Bas Midlan Tel (4 Fax (4	in S d, T (32) 432)	treet, 'exas 689-() 689-	Suite 7970 5301 6313	A1 3	2	200 E El	ast \$ Pas Tel (\$ Fax (1 (8	Suns 6, To 915) 915) 88)	et R 585 585 585	id., S 79 9 -344 -494 3443	Suite 322 344 3	E	88()8 C	amp Ft.	Bov Wor Tel (8 Fax (vie B th, T 317) 817)	lvd. V exas 201-5 560-4	/est, S 76116 260 1336	Suite 1	.80
Company Name: Talon LPE	<u></u>		<u> </u>			Phor	1e #:	4:	32	ک ۲	-2	.2	r	13	3							_	AN	AĽ	YS	IS I	RE	ຸລຸບ	ES	Т						
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Project #: 701014,013.01						Proj	ect N	lam		to	5	SU	2	12	-2-	624	524 05 E	일문		Se H	2 5					52									t fron	
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LAB # FIELD CODE (LAB USE) ONLY	# CONTAIN	Volume / An	WATER	SOIL	SLUDGE		HCI	HNO3	H ₂ SO ₄	NaOH ICE	NONE		DATE		TIME	MTBE 802	BTEX 8021	TPH 8015 G	PAH 8270 /	Total Metals A	TCLP Metal	TCI P Semi	TCLP Pestic	RCI	GC/MS Vol.	GC/MS Sen	PCB's 8082	Pesticides 8	BOD, TSS, I	Moisture Co	1101 2 7				Turn Around	Hold
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699 B-2A	1	1		1		1				i	+		1		1550					-			+	1					-†			+-		1	1	+
bo B-3A	1					\top			1						1545														+	\uparrow		1		1		\uparrow
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Submittal of samples constitutes agreement to Te	erms an	nd Cor	dition	ns lis	ted o		erse	side	e of	C. O	. C.					С	arrier	#	Q	37	4	AJ.														
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LAB Order ID #_9100928

Page 2 of Z TraceAnalysis, Inc. 6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 Tel (806) 794-1296 Fax (806) 794-1298 5002 Basin Street, Suite A1 Midland, Texas 79703 200 East Sunset Rd., Suite E 8808 Camp Bowie Blvd, West, Suite 180 El Paso, Texas 79922 Ft. Worth, Texas 76116 Tel (817) 201-5260 Tel (432) 689-6301 Fax (432) 689-6313 Tel (915) 585-3443 Fax (817) 560-4336 Fax (915) 585-4944 email: lab@traceanalysis.com 1 (800) 378-1296 1 (888) 588-3443 alon LPE Phone #: 432 522 2127 Company Name: **ANALYSIS REQUEST** (Circle or Specify Method No.) (Street, City, Zip) Address: Fax #: Se Hg 6010/200.7 Contact Person: E-mail: Turn Around Time if different from standard Kike Summers Invoice to: (If different from above) Farken Dil & Ranch Project #: Dal Dil - ----TPH 418.1 / TX1005 / TX1005 Ext(C35) TPH 8015 GRO / DRO / TVHC Se Hg Timmy Cerlile Project Name: For SWO #3 Cr Pb 624 701014 013,0 8021 / 602 / 8260 / 624 GC/MS Semi. Vol. 8270 / 625 / 8260 / (Cr Pb (3 Project Location (including state): Sampler Signature: TCLP Metals Ag As Ba 624 Ba Cd (Pesticides 8081 / 608 BOD, TSS, pH TCLP Semi Volatiles 8021 / 602 PRESERVATIVE GC/MS Vol. 8260 / MATRIX SAMPLING Volume / Amount PCB's 8082 / 608 Content CONTAINERS METHOD Pesticides fotal Metals Ag As TCLP Volatiles PAH 8270 / 62 212 FIELD CODE LAB # 0 SLUDGE Moistyre WATER NONE LAB USE NaOH MTBE H,SO4 BTEX TCLP HN03 DATE TIME SOIL PIOH AIR ΈĊ ЫQ ONLY RC D N # B-12A ĸ 10/79 1500 212109 -13A 1455 1 ß ١O V a ß-J 1555 111 Relinguished/by: Company: Time: Beceived by: Company: Date: Time: INST **REMARKS:** Date: LAB USE 10/9/09 1122 OBSISA 10/9/09 a 10h ONLY 2 COR AGIO Received by: Company: Date: Time: INST **Relinguished by:** Company: Date: Time: Intact ()/ N OBS Headspace Y/N/NA COR Dry Weight Basis Required **Relinguished by:** Company: Date: Time: **Received by:** Company: Date: Time: INST **TRRP Report Required** OBS Check If Special Reporting Log-in-Review COR Limits Are Needed Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C. Carrier # **ORIGINAL OOPY**



 6701 Aberdeen Avenue, Suite 9
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 200 East Suisset Road, Suite E
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 5002 Basin Streat, Suite A1
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 6015 Hams Portway, Suite 110
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iuboock, Ioxas 79424 800•378•1296 Et Paso, Texas 79922 986•588•3443 Midland, Iexas 79703 Ft. Worth, Texas 76132 F-Mail: tab@traceanatysis.com 806+794+1296 FAX 806+794+1298 915+585+3443 FAX 915+585+4944 432+669+6801 FAX 432+689+6313 817+201+5266

WBENC: 237019

HUB:1752439743100-86536NCTRCAWFWB38444Y0909

Certifications

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

Kyle Summers Talon LPE-Artesia 104 Hermosa Dr. Artesia, NM, 88210

Report Date: December 23, 2009

Work Order: 9121611

Project Location:Lea Co., NMProject Name:Denton SWD #5Project Number:701014.013.01

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
217390	Backfill 1	soil	2009-12-10	10:30	2009-12-16
217391	Backfill 2	soil	2009-12-10	10:31	2009-12-16
217392	Backfill 3	soil	2009-12-10	10:32	2009-12-16
217393	Backfill 4	soil	2009-12-10	10:33	2009-12-16
217394	Backfill 5	soil	2009-12-10	10:34	2009-12-16

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 17 pages and shall not be reproduced except in its entirety, without written approval of

TraceAnalysis, Inc.

BriPan

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

Standard Flags

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

Case Narrative

Samples for project Denton SWD #5 were received by TraceAnalysis, Inc. on 2009-12-16 and assigned to work order 9121611. Samples for work order 9121611 were received intact at a temperature of 3.4 deg. C.

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

		Prep	Prep	\mathbf{QC}	Analysis
Test	Method	Batch	Date	Batch	Date
BTEX	S 8021B	56577	2009-12-21 at 15:00	66187	2009-12-21 at 12:51
Chloride (Titration)	SM 4500-Cl B	56470	2009-12-17 at 08:42	66072	2009-12-17 at 13:44
TPH DRO - NEW	Mod. 8015B	56461	2009-12-16 at 11:18	66055	2009-12-16 at 11:18
TPH GRO	S 8015B	56577	2009-12-21 at 15:00	66188	2009-12-21 at 13:19

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 9121611 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: 217390 - Backfill 1

Laboratory:	Midland									
Analysis:	BTEX			Analytical	Method:	S 8021B		Prep Me	ethod:	S 5035
QC Batch:	66187			Date Anal	yzed:	2009-12-21		Analyze	d By:	AG
Prep Batch:	56577			Sample Pr	eparation:	2009-12-21		Prepare	d By:	AG
				R	L					
Parameter]	Flag		Resul	t	Units		Dilution		RL
Benzene				< 0.010	0	mg/Kg		1		0.0100
Toluene				< 0.010	0	mg/Kg		1		0.0100
Ethylbenzene	9			< 0.010	0	mg/Kg		1		0.0100
Xylene				< 0.010	0	mg/Kg		1		0.0100
							Spike	Percent	Re	covery
Surrogate			Flag	Result	Units	Dilution	Amount	Recovery	L	imits
Trifluorotolue	ene (TFT)			2.64	mg/Kg	1	2.00	132	64.4	- 141.2
4-Bromofluor	obenzene (4-BF	B)		2.19	mg/Kg	1	2.00	110	43.1	- 158.4

Sample: 217390 - Backfill 1

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 66072 56470	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2009-12-17 2009-12-17	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: 217390 - Backfill 1

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DRO - NEW 66055 56461	Analytical Method: Date Analyzed: Sample Preparation:	Mod. 8015B 2009-12-16 2009-12-16	Prep Method: Analyzed By: Prepared By:	N/A kg kg
		\mathbf{RL}			
Parameter	Flag	Result	Units	Dilution	\mathbf{RL}
DRO		<50.0	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilu	ition	Spike Amount	Percent Recovery	Recover Limits
n-Tricosane	<u> </u>	107	mg/Kg		1	100	107	70 - 130
Sample: 2173	90 - Backfill	1						
Laboratory: M	Aidland	•						
Analysis: 7	TPH GRO		Analytica	l Method:	S 8015B		Prep Me	thod: S 503
QC Batch: 6	6188		Date Ana	lyzed:	2009-12-21	_	Analyzed	l By: AG
Prep Batch: 5	6577		Sample P	reparation:	2009-12-21		Prepared	l By: AG
			\mathbf{RL}					
Parameter	Fla	g	Result		Units		Dilution	R
GRO			<1.00		mg/Kg		1	1.0
						Spike	Percent	Recovery
Surrogate		Flag	Result	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluene	e (TFT)		2.27	mg/Kg	1	2.00	114	65.3 - 145
4-Bromofluorob	enzene (4-BFB	·)	2.61	mg/Kg	1	2.00	130	61.7 - 131.

Laboratory: Analysis: QC Batch: Prep Batch:	Midland BTEX 66187 56577			Analytical Date Anal Sample Pr	Method: yzed: eparation:	S 8021B 2009-12-21 2009-12-21		Prep M Analyze Prepare	ethod: ed By: ed By:	S 5035 AG AG
				\mathbf{R}	L					
Parameter		Flag		Resul	t	Units		Dilution		RL
Benzene				< 0.010	0	mg/Kg		1		0.0100
Toluene				< 0.010	0	mg/Kg		1		0.0100
Ethylbenzene				< 0.010	0	mg/Kg		1		0.0100
Xylene				< 0.010	0	mg/Kg		1		0.0100
							Spike	Percent	\mathbf{Re}	covery
Surrogate			Flag	Result	Units	Dilution	Amount	Recovery	\mathbf{L}	imits
Trifluorotolue	me (TFT)			2.36	mg/Kg	1	2.00	118	64.4	- 141.2
4-Bromofluor	obenzene (4-B	FB)		1.96	$\mathrm{mg/Kg}$	1	2.00	98	43.1	- 158.4

Report Date: December 23, 2009	Work Order: 9121611	Page Number: 6 of 17
701014.013.01	Denton SWD #5	Lea Co., NM

Sample: 217391 - Backfill 2

Parameter	Flag	Result	Units	Dilution	$\frac{\text{RL}}{4.00}$
_		RL	TT A		DI
Prep Batch:	56470	Sample Preparatio	n: 2009-12-17	Prepared By:	\mathbf{AR}
QC Batch:	66072	Date Analyzed:	2009-12-17	Analyzed By:	\mathbf{AR}
Analysis:	Chloride (Titration)	Analytical Method	: SM 4500-Cl B	Prep Method:	N/A
Laboratory:	Midland				

Sample: 217391 - Backfill 2

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH DRO - N 66055 56461	IEW	Analytic Date An Sample I	al Method: alyzed: Preparation:	Mod. 8015B 2009-12-16 2009-12-16	Prep M Analyz Prepar	lethod: N/A ed By: kg ed By: kg
Paramoter	F	arr	RL Besult		Unite	Dilution	BI
DRO		lag	<50.0	n	ng/Kg	1	50.0
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		104	mg/Kg	1	100	104	70 - 130

Sample: 217391 - Backfill 2

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Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH GRO 66188 56577		Analytica Date Ana Sample P	l Method: lyzed: reparation:	S 8015B 2009-12-21 2009-12-21		Prep Me Analyze Preparec	ethod: S 5035 d By: AG d By: AG
			\mathbf{RL}					
Parameter	Flag		\mathbf{Result}		Units		Dilution	RL
GRO			1.16		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolue 4-Bromofluor	ene (TFT) obenzene (4-BFB)		2.04 2.14	mg/Kg mg/Kg	1 1	2.00 2.00	102 107	65.3 - 145 61.7 - 131.1

Report Date: December 23, 2009	Work Order: 9121611	Page Number: 7 of 17
701014.013.01	Denton SWD #5	Lea Co., NM

Sample: 217392 - Backfill 3

Laboratory: Analysis: QC Batch: Prep Batch:	Midland BTEX 66187 56577			Analytical Date Anal Sample Pr	Method: yzed: eparation:	S 8021B 2009-12-21 2009-12-21		Prep Me Analyze Preparec	ethod: d By: d By:	S 5035 AG AG
				RJ	L					
Parameter		Flag		Resul	t	Units		Dilution		RL
Benzene				< 0.010	0	mg/Kg		1		0.0100
Toluene				< 0.010	0	m mg/Kg		1		0.0100
Ethylbenzene	!			< 0.010	0	mg/Kg		1		0.0100
Xylene				< 0.010	0	mg/Kg		1		0.0100
							Spike	Percent	Re	covery
Surrogate			Flag	\mathbf{Result}	\mathbf{Units}	Dilution	Amount	Recovery	L	imits
Trifluorotolue	ene (TFT)			2.57	mg/Kg	1	2.00	128	64.4	- 141.2
4-Bromofluor	obenzene (4-B	FB)		2.09	mg/Kg	1	2.00	104	43.1	- 158.4

Sample: 217392 - Backfill 3

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 66072 56470	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2009-12-17 2009-12-17	Prep Method: Analyzed By: Prepared By:	N/A AR AR
		RL			
Parameter	Flag	\mathbf{Result}	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

Sample: 217392 - Backfill 3

DRO			<50.0	mg	;/Kg	I	50.0
DRU			< 50.0	mg	/Kg	<u>I</u>	50.0
DRO	F	lag	<50.0	mg	/Kg	1	50.0
Deserves	F	1	RL	T	T		DI
Prep Batch:	56461		Sample I	Preparation: 2	Preparation: 2009-12-16		ed By: kg
QC Batch:	66055		Date Analyzed:		2009-12-16	Analyz	ed By: kg
Laboratory: Analysis:	Midland TPH DRO - N	IEW	Analytic	al Method: N	Mod. 8015B	Prep M	ethod: N/A

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Sample: 217392 - Backfill 3

Laboratory: Analysis: QC Batch: Prep Batch:	Midland TPH GRO 66188 56577		Analytica Date Ana Sample P	l Method: lyzed: 'reparation:	S 8015B 2009-12-21 2009-12-21		Prep Me Analyze Preparec	ethod: S 5035 d By: AG d By: AG
			\mathbf{RL}					
Parameter	Flag		\mathbf{Result}		Units		Dilution	RL
GRO			<1.00		mg/Kg		1	1.00
Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolue	ene (TFT)	· · · · · · · · · · · · · · · · · · ·	2.21	mg/Kg	1	2.00	110	65.3 - 145
4-Bromofluor	obenzene (4-BFB)		2.28	mg/Kg	1	2.00	114	61.7 - 131.1
Sample: 21	7393 - Backfill 4	L						
Laboratory:	Midland							

Analysis: H QC Batch: 6	BTEX 56187		Analytical Date Anal	Method: yzed:	S 8021B 2009-12-21		Prep Me Analyze	ethod: S 5035 d By: AG
Prep Batch: 5	56577		Sample Pr	eparation:	2009-12-21		Prepareo	d By: AG
			RI					
Parameter	Flag		Resul	t	Units	1	Dilution	\mathbf{RL}
Benzene			< 0.010	0	mg/Kg		1	0.0100
Toluene			< 0.010	0	$\mathrm{mg/Kg}$		1	0.0100
Ethylbenzene			< 0.010	0	mg/Kg		1	0.0100
Xylene			< 0.010	0	mg/Kg		1	0.0100
						Spike	Percent	Recovery
Surrogate		Flag	\mathbf{Result}	Units	Dilution	Amount	Recovery	Limits
Trifluorotoluen	e (TFT)		2.58	mg/Kg	1	2.00	129	64.4 - 141.2
4-Bromofluorob	penzene (4-BFB)		2.09	mg/Kg	1	2.00	104	43.1 - 158.4

Sample: 217393 - Backfill 4

Laboratory: Analysis: QC Batch: Prep Batch:	Midland Chloride (Titration) 66072 56470	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2009-12-17 2009-12-17	Prep Method: Analyzed By: Prepared By:	N/A AR AR
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		<200	mg/Kg	50	4.00

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Sample: 217393 - Backfill 4

<u></u>			<1.00		ng	<u> </u>	1.00
Parameter	FI	ag	Kesult	<u>Un</u>	Its	Dilution	
n ,			RL	TT	- ,		DI
Prep Batch:	56577		Sample Prep	aration: 2009-1	2-21	Prepared I	By: AG
QC Batch:	66188		Date Analyze	ed: 2009-1	2-21	Analyzed I	By: AG
Analysis:	TPH GRO		Analytical M	ethod: S 8015	B	Prep Meth	iod: S 5035
Laboratory:	Midland				-		
Sample: 21	7393 - Backfil	14					
n-Tricosane		109	mg/Kg	1	100	109	70 - 130
Surrogate	Flag	Result	Units	Dilution	Amount	Recovery	Limits
					Spike	Percent	Recovery
DRO			<50.0	mg/l	Kg	1	50.0
Parameter Flag		ag	Result	Un	its	Dilution	RL
			\mathbf{RL}				
Prep Batch:	56461		Sample I	reparation: 20	09-12-16	Prepareo	i By: kg
QC Batch:	66055		Date Analyzed: 2009-12-16			Analyzeo	i By: kg
Analysis:	TPH DRO - N	IEW	Analytic	al Method: Mo	Prep Me	thod: N/A	
Laboratory:	Midland						

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.24	mg/Kg	1	2.00	112	65.3 - 145
4-Bromofluorobenzene (4-BFB)		2.28	mg/Kg	1	2.00	114	61.7 - 131.1

Sample: 217394 - Backfill 5

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Laboratory: Analysis: QC Batch: Prep Batch:	Midland BTEX 66187 56577		Analytical Method: Date Analyzed: Sample Preparation:	S 8021B 2009-12-21 2009-12-21	Prep Method: Analyzed By: Prepared By:	S 5035 AG AG
			RL			
Parameter		Flag	Result	Units	Dilution	\mathbf{RL}
Benzene			< 0.0100	mg/Kg	1	0.0100
Toluene			< 0.0100	mg/Kg	1	0.0100
Ethylbenzene	:		< 0.0100	mg/Kg	1	0.0100
Xylene			< 0.0100	mg/Kg	1	0.0100

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Surrogate		Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotolu	ene (TFT)		2.64	m mg/Kg	1	2.00	132	64.4 - 141
4-Bromofluor	robenzene (4-BF	<u>B)</u>	2.13	mg/Kg	1	2.00	106	43.1 - 158
Sample: 21	7394 - Backfill	5						
Laboratory:	Midland							
Analysis:	Chloride (Titra	ation)	Analy	tical Metho	d: SM 450	00-Cl B	Prep 1	Method: N/
QC Batch:	66072		Date	Analyzed:	2009-12	2-17	Analy	zed By: AF
Prep Batch:	56470		Samp	le Preparati	on: 2009-12	2-17	Prepa	red By: AF
_			RL					_
Parameter	FI	ag	Result		Units		Dilution	R
Chloride			<200		mg/Kg		50	4.(
Sample: 21 Laboratory: Analysis:	7394 - Backfill Midland TPH DRO - N	EW	Analy	vtical Metho	d: Mod. 8	6015B	Prep 1	Method: N/
Sample: 21 Laboratory: Analysis: QC Batch: Prep Batch:	7394 - Backfill Midland TPH DRO - N 66055 56461	l 5 EW	Analy Date Samp	vtical Metho Analyzed: le Preparati	d: Mod. 8 2009-12 on: 2009-12	3015B 2-16 2-16	Prep 1 Analy Prepa	Method: N/ zed By: kg red By: kg
Sample: 21 Laboratory: Analysis: QC Batch: Prep Batch:	7394 - Backfill Midland TPH DRO - N 66055 56461	l 5 EW	Analy Date Samp RL	ytical Metho Analyzed: le Preparati	d: Mod. 8 2009-12 on: 2009-12	3015B 2-16 2-16	Prep 1 Analy Prepa	Method: N/ zed By: kg red By: kg
Sample: 21 Laboratory: Analysis: QC Batch: Prep Batch: Parameter	7394 - Backfill Midland TPH DRO - N 66055 56461 Fl	l 5 EW ag	Analy Date Samp RL Result	ytical Metho Analyzed: le Preparati	d: Mod. 8 2009-12 on: 2009-12 Units	3015B 2-16 2-16	Prep I Analy Prepa Dilution	Method: N/ zed By: kg red By: kg R
Sample: 21 Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter DRO	7394 - Backfill Midland TPH DRO - N 66055 56461 Fl	EW	Analy Date Samp RL Result <50.0	ytical Metho Analyzed: le Preparati	d: Mod. 8 2009-12 on: 2009-12 Units mg/Kg	3015B 2-16 2-16	Prep 1 Analy Prepa Dilution 1	Method: N/ zed By: kg red By: kg R 50
Sample: 21 Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter DRO	7394 - Backfill Midland TPH DRO - N 66055 56461 Fl	EW ag	Analy Date Samp RL Result <50.0	vtical Metho Analyzed: le Preparati	d: Mod. 8 2009-12 on: 2009-12 Units mg/Kg	6015B 2-16 2-16 Spike	Prep 1 Analy Prepa Dilution 1 Percent	Method: N/ zed By: kg red By: kg Recover
Sample: 21 Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter DRO	7394 - Backfill Midland TPH DRO - N 66055 56461 Flag	EW ag Result	Analy Date Samp RL Result <50.0	vtical Metho Analyzed: le Preparati 	d: Mod. 8 2009-12 on: 2009-12 Units mg/Kg tion	5015B 2-16 2-16 Spike Amount	Prep I Analy Prepa Dilution 1 Percent Recovery	Method: N/ zed By: kg red By: kg R 50 Recover Limits
Sample: 21 Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter DRO Surrogate a-Tricosane	7394 - Backfill Midland TPH DRO - N 66055 56461 Fl Flag	l 5 EW ag Result 108	Analy Date Samp RL Result <50.0 Units mg/Kg	/tical Metho Analyzed: le Preparati Dilur 1	d: Mod. 8 2009-12 on: 2009-12 <u>Units</u> mg/Kg tion	3015B 2-16 2-16 2-16 Spike Amount 100	Prep I Analy Prepa Dilution 1 Percent Recovery 108	Method: N/ zed By: kg red By: kg R 50 Recover Limits 70 - 13
Sample: 21 Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter DRO Surrogate n-Tricosane Sample: 21'	7394 - Backfill Midland TPH DRO - N 66055 56461 Flag Flag 7394 - Backfill	1 5 EW ag Result 108	Analy Date Samp RL Result <50.0 Units mg/Kg	vtical Metho Analyzed: le Preparati Dilun 1	d: Mod. 8 2009-12 on: 2009-12 <u>Units</u> <u>mg/Kg</u> tion	5015B 2-16 2-16 Spike Amount 100	Prep I Analy Prepa Dilution 1 Percent Recovery 108	Method: N/ zed By: kg red By: kg R 50 Recover Limits 70 - 13
Sample: 21 Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter DRO Surrogate n-Tricosane Sample: 21 Laboratory:	7394 - Backfill Midland TPH DRO - N 66055 56461 Flag Flag 7394 - Backfill Midland	L 5 EW ag Result 108	Analy Date Samp RL Result <50.0 Units mg/Kg	/tical Metho Analyzed: le Preparati Dilun 1	d: Mod. 8 2009-12 on: 2009-12 <u>Units</u> mg/Kg	3015B 2-16 2-16 2-16 Spike Amount 100	Prep I Analy Prepa Dilution 1 Percent Recovery 108	Method: N/ zed By: kg red By: kg R 50 Recover Limits 70 - 13
Sample: 21 Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter DRO Surrogate n-Tricosane Sample: 21' Laboratory: Analysis:	7394 - Backfill Midland TPH DRO - N 66055 56461 Flag 7394 - Backfill Midland TPH GRO	EW ag Result 108 5	Analy Date Samp RL Result <50.0 Units mg/Kg	/tical Metho Analyzed: le Preparati Dilu 1 1 1	d: Mod. 8 2009-12 on: 2009-12 <u>Units</u> mg/Kg tion S 8015B	5015B 2-16 2-16 Spike Amount 100	Prep I Analy Prepa Dilution 1 Percent Recovery 108 Prep Me	Method: N/ zed By: kg red By: kg R 50 Recover Limits 70 - 13
Sample: 21 Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter DRO Surrogate An-Tricosane Sample: 21' Laboratory: Analysis: QC Batch:	7394 - Backfill Midland TPH DRO - N 66055 56461 Flag 7394 - Backfill Midland TPH GRO 66188	1 5 EW ag Result 108	Analy Date Samp RL Result <50.0 Units mg/Kg Analytica Date Ana	/tical Metho Analyzed: le Preparati Dilu Dilu 1 1 Method: lyzed:	d: Mod. 8 2009-12 on: 2009-12 Units mg/Kg tion S 8015B 2009-12-21	5015B 2-16 2-16 Spike Amount 100	Prep I Analy Prepa Dilution 1 Percent Recovery 108 Prep Me Analyzed	Method: N/ zed By: kg red By: kg Recover Limits 70 - 13
Sample: 21 Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter DRO Surrogate n-Tricosane Sample: 21 Laboratory: Analysis: QC Batch: Prep Batch:	7394 - Backfill Midland TPH DRO - N 66055 56461 Fl Flag 7394 - Backfill Midland TPH GRO 66188 56577	1 5 EW ag Result 108	Analy Date Samp RL Result <50.0 Units mg/Kg Analytica Date Ana Sample P	/tical Metho Analyzed: le Preparati Dilur 1 1 1 Method: lyzed: reparation:	d: Mod. 8 2009-12 on: 2009-12 Units mg/Kg tion S 8015B 2009-12-21 2009-12-21	3015B 2-16 2-16 2-16 Mount 100	Prep I Analy Prepa Dilution 1 Percent Recovery 108 Prep Me Analyzee Prepared	Method: N/ zed By: kg red By: kg Recover Limits 70 - 13 ethod: S 503 d By: AG d By: AG
Sample: 21 Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: Parameter DRO Surrogate n-Tricosane Sample: 21 Laboratory: Analysis: QC Batch: Prep Batch:	7394 - Backfill Midland TPH DRO - N 66055 56461 Fl Flag 7394 - Backfill Midland TPH GRO 66188 56577	1 5 EW ag Result 108	Analy Date Samp RL Result <50.0 Units mg/Kg Analytica Date Ana Sample P RL	vtical Metho Analyzed: le Preparati Dilur 1 l Method: lyzed: reparation:	d: Mod. 8 2009-12 on: 2009-12 Units mg/Kg tion S 8015B 2009-12-21 2009-12-21	8015B 2-16 2-16 Spike Amount 100	Prep I Analy Prepa Dilution 1 Percent Recovery 108 Prep Me Analyzed Prepared	Method: N/ zed By: kg red By: kg Recover Limits 70 - 13 ethod: S 503 d By: AG d By: AG
Sample: 21 Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch: DRO Surrogate n-Tricosane Sample: 21 ⁷ Laboratory: Analysis: QC Batch: Prep Batch: Prep Batch:	7394 - Backfill Midland TPH DRO - N 66055 56461 Fl Flag 7394 - Backfill Midland TPH GRO 66188 56577 Fl	ag Result 108	Analy Date Samp RL Result <50.0 Units mg/Kg Analytica Date Ana Sample P RL Result	/tical Metho Analyzed: le Preparati Dilur 1 l Method: lyzed: reparation:	d: Mod. 8 2009-12 on: 2009-12 Units mg/Kg tion S 8015B 2009-12-21 2009-12-21 Units	3015B 2-16 2-16 Spike Amount 100	Prep I Analy: Prepa Dilution 1 Percent Recovery 108 Prep Me Analyzed Prepared Dilution	Method: N/ zed By: kg red By: kg Recover Limits 70 - 13 ethod: S 503 d By: AG d By: AG d By: AG

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Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recover Limits	ry 5
Trifluorotoluene (TFT)) (4 DED)	2.27	mg/Kg	1	2.00	114	61 7 19	40
4-Dromonuorobenzene	(4-DFD)	2.30	mg/ Kg	L	2.00	110	01.1 - 15	
Method Blank (1)	QC Batch: 66055							
QC Batch: 66055 Prep Batch: 56461		Date An QC Prep	alyzed: 2 paration: 2	009-12-16 009-12-16		Ana Prep	lyzed By: 1 bared By: 1	kg kg
Democratic	F lan		MDL Bogult		τī-,	:+-	,	DT
Parameter	Flag		Result		UII	ILS /V.m		L 50
DRO			< 0.80		mg/	ng		90
		TT 4.	Dil		Spike	Percent	Recove	ery
Surrogate Fla	ag Result	Units	Dilu	tion	Amount	Recovery	Limit	ts
n-Tricosane	104	mg/Kg			100	104	70 - 1	.30
Method Blank (1) OC Batch: 66072	QC Batch: 66072	Date Ana	alyzed: 20	009-12-17		Analy	yzed By: A	AR
Method Blank (1) QC Batch: 66072 Prep Batch: 56470	QC Batch: 66072	Date Ana QC Prep	alyzed: 20 aration: 20 MDL	009-12-17 009-12-17		Analy Prepa	yzed By: A ared By: A	AR AR
Method Blank (1) QC Batch: 66072 Prep Batch: 56470 Parameter	QC Batch: 66072 Flag	Date Ana QC Prep	alyzed: 20 aration: 20 MDL Result	009-12-17 009-12-17	Un	Analy Prepa its	vzed By: A ared By: A	AR AR RL
Method Blank (1) QC Batch: 66072 Prep Batch: 56470 Parameter Chloride	QC Batch: 66072 Flag	Date Ana QC Prep	alyzed: 20 aration: 20 MDL Result <2.18	009-12-17 009-12-17	Un mg/	Analy Prepa its /Kg	yzed By: A ared By: A	$\frac{R}{4}$
Method Blank (1) QC Batch: 66072 Prep Batch: 56470 Parameter Chloride Method Blank (1) QC Batch: 66187 Brow Botch: 56577	QC Batch: 66072 Flag QC Batch: 66187	Date Ana QC Prep Date Ana	alyzed: 20 aration: 20 MDL Result <2.18	009-12-17 009-12-17	Un mg/	Analy Prepa its /Kg Analy Prop	vzed By: A ared By: A	$\frac{RR}{4}$
Method Blank (1) QC Batch: 66072 Prep Batch: 56470 Parameter Chloride Method Blank (1) QC Batch: 66187 Prep Batch: 56577	QC Batch: 66072 Flag QC Batch: 66187	Date Ana QC Prep Date Ana QC Prep	alyzed: 2(aration: 2) MDL Result <2.18 alyzed: 2(aration: 2)	009-12-17 009-12-17 009-12-21 009-12-21 0L	Un mg/	Analy Prepa its /Kg Analy Prepa	vzed By: A ared By: A J vzed By: A ared By: A	$\frac{RL}{4}$
Method Blank (1) QC Batch: 66072 Prep Batch: 56470 Parameter Chloride Method Blank (1) QC Batch: 66187 Prep Batch: 56577 Parameter	QC Batch: 66072 Flag QC Batch: 66187 Flag	Date Ana QC Prep Date Ana QC Prep	alyzed: 20 aration: 20 MDL Result <2.18 alyzed: 20 aration: 20 ME Resu	009-12-17 009-12-17 009-12-21 009-12-21 009-12-21 0L 1lt	Un mg/ Uı	Analy Prepa its /Kg Analy Prepa nits	vzed By: A ared By: A vzed By: A ared By: A	AR AR <u>RL</u> AG AG RL
Method Blank (1) QC Batch: 66072 Prep Batch: 56470 Parameter Chloride Method Blank (1) QC Batch: 66187 Prep Batch: 56577 Parameter Benzene	QC Batch: 66072 Flag QC Batch: 66187 Flag	Date Ana QC Prep Date Ana QC Prep	alyzed: 20 aration: 20 MDL Result <2.18 alyzed: 20 aration: 20 ME Resu <0.004	009-12-17 009-12-17 009-12-21 009-12-21 0L 1lt 10	Un mg/ U 	Analy Prepa /Kg Analy Prepa nits /Kg	vzed By: A ared By: A vzed By: A ared By: A F 0	$\frac{RR}{4}$
Method Blank (1) QC Batch: 66072 Prep Batch: 56470 Parameter Chloride Method Blank (1) QC Batch: 66187 Prep Batch: 56577 Parameter Benzene Toluene	QC Batch: 66072 Flag QC Batch: 66187 Flag	Date Ana QC Prep Date Ana QC Prep	alyzed: 20 aration: 20 MDL Result <2.18 alyzed: 20 aration: 20 ME Resu <0.004 <0.003	009-12-17 009-12-17 009-12-21 009-12-21 009-12-21 0L 11 10	Un mg/ Un mg mg	Analy Prepa its /Kg Analy Prepa nits /Kg /Kg	yzed By: A ared By: A yzed By: A ared By: A F 0 0	AR RL AG G RL 0.01
Method Blank (1) QC Batch: 66072 Prep Batch: 56470 Parameter Chloride Method Blank (1) QC Batch: 66187 Prep Batch: 56577 Parameter Benzene Toluene Ethylbenzene	QC Batch: 66072 Flag QC Batch: 66187 Flag	Date Ana QC Prep Date Ana QC Prep	alyzed: 20 aration: 20 MDL Result <2.18 alyzed: 20 aration: 20 ME Resu <0.004 <0.003 <0.002	009-12-17 009-12-17 009-12-21 009-12-21 0L 11 10 10 40	Un mg/ Un mg mg mg	Analy Prepa its /Kg Analy Prepa nits /Kg /Kg /Kg /Kg	vzed By: A ared By: A vzed By: A ared By: A f 0 0 0 0	AR AR AG AG RL .01 0.01
Method Blank (1) QC Batch: 66072 Prep Batch: 56470 Parameter Chloride Method Blank (1) QC Batch: 66187 Prep Batch: 56577 Parameter Benzene Toluene Ethylbenzene Xylene	QC Batch: 66072 Flag QC Batch: 66187 Flag	Date Ana QC Prep Date Ana QC Prep	alyzed: 20 aration: 20 MDL Result <2.18 alyzed: 20 aration: 20 ME Resu <0.004 <0.003 <0.002 <0.006	009-12-17 009-12-17 009-12-21 009-12-21 009-12-21 0L 11 10 10 40 50	Un mg/ Un mg mg mg mg	Analy Prepa its /Kg Analy Prepa nits /Kg /Kg /Kg /Kg /Kg	vzed By: A ared By: A vzed By: A nred By: A F 0 0 0 0	AR <u>RL</u> <u>4</u> AG AG <u>RL</u> <u>0.01</u> 0.01 0.01
Method Blank (1) QC Batch: 66072 Prep Batch: 56470 Parameter Chloride Method Blank (1) QC Batch: 66187 Prep Batch: 56577 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate	QC Batch: 66072 Flag QC Batch: 66187 Flag Flag	Date Ana QC Prep Date Ana QC Prep Result	alyzed: 20 aration: 20 MDL Result <2.18 alyzed: 20 aration: 20 ME Resu <0.004 <0.003 <0.002 <0.002 <0.006 Units	009-12-17 009-12-17 009-12-21 009-12-21 0L 11 10 10 40 50 Dilution	Un mg/ Un mg mg mg mg mg Spike Amount	Analy Prepa its /Kg Analy Prepa nits /Kg /Kg /Kg /Kg /Kg /Kg /Kg /Kg /Kg /Kg	vzed By: A ared By: A vzed By: A ared By: A F 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	AR AR AG AG AG AG AG AG AG AG AG AG AG AG AG
Method Blank (1) QC Batch: 66072 Prep Batch: 56470 Parameter Chloride Method Blank (1) QC Batch: 66187 Prep Batch: 56577 Parameter Benzene Toluene Ethylbenzene Xylene Surrogate Trifluorotoluene (TFT)	QC Batch: 66072 Flag QC Batch: 66187 Flag Flag	Date Ana QC Prep Date Ana QC Prep Result 2.40	alyzed: 20 aration: 20 MDL Result <2.18 alyzed: 20 aration: 20 ME Resu <0.004 <0.003 <0.002 <0.006 Units mg/Kg	009-12-17 009-12-17 009-12-21 009-12-21 009-12-21 0L 11t 10 10 40 50 Dilution 1	Un mg/ Un mg mg mg mg mg Spike Amount 2.00	Analy Prepa its /Kg Analy Prepa nits /Kg /Kg /Kg /Kg /Kg /Kg /Kg /Kg /Kg /Kg	vzed By: A ared By: A vzed By: A ared By: A ared By: A F 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	AR AR AG AG AG AG AG 2.7

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Method Bla	unk (1)	QC Bate	ch: 66188								
QC Batch: Prep Batch:	66188 56577			Date An QC Prep	alyzed: paration:	2009-12 2009-12	-21 -21		Analy Prepa	yzed By: ared By:	AG AG
					М	DL					
Parameter		F	lag		Res	sult		Units	8		RL
GRO					<0.	396		mg/K	g		1
Surrogate			Flag	Result	Unit	s Di	lution	Spike Amount	Percent Recovery	Rec Li	covery mits
Trifluorotolue	ene (TFT)			2.13	mg/ŀ	۲g	1	2.00	106	66.2	2 - 145
4-Bromofluor	obenzene (4-BFB)		2.16	mg/ŀ	ζg	1	2.00	108	62 -	120.5
QC Batch: Prep Batch: Param	66055 56461		LC: Resu	Date An QC Prej S ilt U	nalyzed: paration: Units	2009-12 2009-12 Dil.	2-16 2-16 Spike Amount	Matrix Result	Ana Prep Rec.	lyzed By bared By R Lin	: kg : kg ec. mit
DRO			260	3 m	g/Kg	1	250	<5.86	106	57.4 -	133.4
D		d on the s	oike result.	RPD is b	based on	the spike	and spike d	uplicate re	sult.		
Percent recov	ery is base	u on the s							-		
Percent recov	ery is base		LCSD Result	Units mg/Kg	Dil.	Spike Amount 250	Matrix Result <5.86	Rec.	Rec. Limit 74 - 133.4	RPD 2	RPD Limit 20
Param DRO	ery is base	d on the s	LCSD Result 272	Units mg/Kg	Dil.	Spike Amount 250 the spike	Matrix Result <5.86	Rec. 109 57	Rec. Limit 7.4 - 133.4	RPD 2	RPD Limit 20
Percent recov Param DRO Percent recov Surrogate	ery is base	d on the sp LCS Result	LCSD Result 272 pike result. LCSD Result	Units mg/Kg RPD is b	Dil. 1 pased on	Spike Amount 250 the spike	Matrix Result <5.86 and spike d Spike Amount	Rec. 109 57 uplicate res LCS Rec	Rec. Limit 7.4 - 133.4 sult. LCSD Rec	RPD 2	RPD Limit 20 Rec.
Percent recov Param DRO Percent recov Surrogate n-Tricosane	ery is base	d on the sp LCS Result 110	LCSD Result 272 pike result. LCSD Result 112	Units mg/Kg RPD is t Ur mg	Dil. 1 pased on nits /Kg	Spike Amount 250 the spike Dil. 1	Matrix Result <5.86 and spike d Spike Amount 100	Rec. 109 57 uplicate res LCS Rec. 110	Rec. Limit 7.4 - 133.4 sult. LCSD Rec. 112	RPD 2 1 70	RPD Limit 20 Rec. Limit) - 130
Percent recov Param DRO Percent recov Surrogate n-Tricosane Laboratory QC Batch: Prep Batch:	ery is base ery is base Control \$ 66072 56470	d on the sp LCS Result 110 Spike (LC	LCSD Result 272 pike result. LCSD Result 112	Units mg/Kg RPD is t Un mg Date An QC Prep	Dil. 1 pased on hits /Kg alyzed: paration:	Spike <u>Amount</u> 250 the spike <u>Dil.</u> 1 2009-12 2009-12	Matrix Result <5.86 and spike d Spike Amount 100 -17 -17	Rec. 109 57 uplicate res LCS Rec. 110	Rec. Limit 2.4 - 133.4 sult. LCSD Rec. 112 Analy Prepa	RPD 2 I 70 yzed By: ared By:	RPD Limit 20 Rec. Limit) - 130 AR AR
Percent recov Param DRO Percent recov Surrogate n-Tricosane Laboratory QC Batch: Prep Batch: Prep Batch: Param	ery is base ery is base Control \$ 66072 56470	d on the sp LCS Result 110 Spike (LC	LCSD Result 272 Dike result. LCSD Result 112 SS-1)	Units mg/Kg RPD is t Ur mg Date An QC Prep CS ult	Dil. 1 pased on hits /Kg alyzed: paration: Units	Spike <u>Amount</u> 250 the spike <u>Dil.</u> 1 2009-12 2009-12 2009-12 Dil.	Matrix Result <5.86 and spike d Spike Amount 100 -17 -17 Spike Amoun	Rec. 109 57 uplicate res LCS Rec. 110 Mat t Resu	Rec. Limit 7.4 - 133.4 sult. LCSD Rec. 112 Analy Prepa	RPD 2 I 70 yzed By: ared By:	RPD Limit 20 Rec. Limit 0 - 130 AR AR AR AR Cimit

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

Report Date: December 23, 2009 701014.013.01		Worl De	c Order: 91 enton SWD	21611 #5		Page Number: 13 of 17 Lea Co., NM					
Param	LCSD Result	Units	Di	Spike I. Amou	e M Int R	latrix lesult	Rec	<u>.</u>) 8	Rec. Limit	RPD 1	RPD Limit
Demonde	100		bood	on the spik	o ond or	$\frac{2.10}{2}$	unligat		0 - 110 +		
recent recovery is based on the s	spike result.	. RED IS	Daseu	on the spike	e and sj	pike u	upiicau	e resu	16.		
Laboratory Control Spike (L0	CS-1)										
OC Batch: 66187		Date A	nalvzeo	1: 2009-1	2-21				Anal	vzed By	v: AG
Prep Batch: 56577		QC Pre	eparatio	on: 2009-1	2-21				Prep	ared By	: AG
	LC	S			Spik	e	Mat	rix]	Rec.
Param	Resu	ilt U	Jnits	Dil.	Amou	nt	Res	ult	Rec.	I	<u>imit</u>
Benzene	1.8	7 m	g/Kg	1	2.00)	< 0.00)410	94	75.4	- 115.7
Toluene	1.9	o m 6 m	g/Kg g/Kg	1	2.00	,))310)940	98 08	76.4 76	- 113.0 - 114.9
Xylene	5.8	4 m	g/Kg	1	6.00	,)	< 0.00)240)650	90 97	76.9	- 113.6
Percent recovery is based on the s	niko rosult	RPD is	hased i	on the spike	e and si	nike di	unlicate	- resul	 +		
referit recovery is based on the a	pine result.	. 101 10 13	based	on the spin	c and sp	JIKC U	upiicat	, icsui			
	LCSD		_	Spike	Mat	rix	_		Rec.		RPD
Param	Result	Units	Dil.	Amount	Res	ult	Rec.	I	Limit	RPD	Limit
Benzene	1.84	mg/Kg	1	2.00	<0.00	0410	92 06	75.4		2	20
Toluene	1.93	mg/Kg	1	2.00	< 0.00	J310 J940	90 06	(8.4	114.9	1	20 20
Xylene	1.93 5.76	mg/Kg	1	2.00	< 0.00	0240 0650	90 96	76.9	- 114.2	2 1	20
Percent recovery is based on the s	pike result.	RPD is	based (on the spike	e and sp	oike du	plicate	e resul	lt.	<u>+</u>	
	LC	S LC	SD			Spil	œ	LCS	LCSD	I	Rec
Surrogate	Resu	ilt Res	sult	Units	Dil.	Amo	unt	Rec.	Rec.	I	imit
Trifluorotoluene (TFT)	2.4	2 2.	32	mg/Kg	1	2.0	0	121	116	65	- 142.9
4-Bromofluorobenzene (4-BFB)	2.13	3 2.	04	mg/Kg	1	2.0	0	106	102	43.8	- 144.9
Laboratory Control Spike (LC	CS-1)										
QC Batch: 66188 Prep Batch: 56577		Date An QC Pre	nalyzec paratic	l: 2009-1 on: 2009-1	2-21 2-21				Anal Prep	yzed By ared By	: AG : AG
	LC	S			Spi	ke	Ma	trix]	Rec.
Param	Res		Units	Dil.	Amo	unt	Res	ult	Rec.	L	imit
GKU	15.	1 II	ng/Kg	1	20	.0	<0.	396	76	52.5	- 114.3
Percent recovery is based on the s	pike result.	RPD is	based of	on the spike	e and sp	oike du	iplicate	e resul	.t.		
Denser	LCSD	TT!/	D'1	Spike	Mat	rix	Dar	I T	lec.	מחח	RPD
CRO	15 4	Units	ווע. 1	Amount	$- \kappa es$	ult 206	<u>пес.</u> 77	<u>ــــــــــــــــــــــــــــــــــــ</u>	11110	<u>หยบ</u> จ	
	10.4	mg/ ng	I	20.0	<0.,	590	- 1 (02.0	- 114.0	4	

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Report Date: December 23, 2009	Work Order: 9121611	Page Number: 14 of 17
701014.013.01	Denton SWD #5	Lea Co., NM

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

	LCS	LCSD			\mathbf{Spike}	LCS	LCSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	2.18	2.11	mg/Kg	1	2.00	109	106	66.2 - 148.7
4-Bromofluorobenzene (4-BFB)	2.36	2.30	mg/Kg	1	2.00	118	115	64.1 - 127.4

Matrix Spike (MS-1) Spiked Sample: 217098

QC Batch:	66055	Date Analyzed:	2009-12-16	Analyzed By:	$\mathbf{k}\mathbf{g}$
Prep Batch:	56461	QC Preparation:	2009-12-16	Prepared By:	kg

	MS			Spike	Matrix		Rec.
Param	\mathbf{Result}	Units	Dil.	Amount	Result	Rec.	\mathbf{Limit}
DRO	239	mg/Kg	1	250	< 5.86	96	35.2 - 167.1

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

DRO	238	mg/Kg	1	250	< 5.86	95	35.2 - 167.1	0	20
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
	MSD			Spike	Matrix		Rec.		RPD

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

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	\mathbf{Limit}
n-Tricosane	98.4	100	mg/Kg	1	100	98	100	70 - 130

Matrix Spike (MS-1) Spiked Sample: 217394

QC Batch:	66072	Date Analyzed:	2009-12-17	Analyzed By:	\mathbf{AR}
Prep Batch:	56470	QC Preparation:	2009-12-17	Prepared By:	\mathbf{AR}

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	$\mathbf{A}\mathbf{m}\mathbf{o}\mathbf{u}\mathbf{n}\mathbf{t}$	Result	Rec.	\mathbf{Limit}
Chloride	9740	mg/Kg	100	10000	<218	97	85 - 115

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

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	9930	mg/Kg	100	10000	<218	99	85 - 115	2	20

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

Matrix Spike (MS-1) Spiked Sample: 217295

QC Batch:	66187	Date Analyzed:	2009-12-21	Analyzed By:	\mathbf{AG}
Prep Batch:	56577	QC Preparation:	2009-12-21	Prepared By:	\mathbf{AG}

Report Date: December 23, 2009	Work Order: 9121611	Page Number: 15 of 17
701014.013.01	Denton SWD #5	Lea Co., NM

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	\mathbf{Result}	Rec.	\mathbf{Limit}
Benzene	1.88	mg/Kg	1	2.00	< 0.00410	94	57.7 - 140.7
Toluene	2.00	mg/Kg	1	2.00	< 0.00310	100	53.4 - 146.6
Ethylbenzene	2.05	$\mathrm{mg/Kg}$	1	2.00	< 0.00240	102	62.1 - 141.6
Xylene	6.12	mg/Kg	1	6.00	< 0.00650	102	61.2 - 142.7

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

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	\mathbf{Limit}	RPD	Limit
Benzene	2.01	mg/Kg	1	2.00	< 0.00410	100	57.7 - 140.7	7	20
Toluene	2.15	mg/Kg	1	2.00	< 0.00310	108	53.4 - 146.6	7	20
Ethylbenzene	2.20	mg/Kg	1	2.00	< 0.00240	110	62.1 - 141.6	7	20
Xylene	6.56	mg/Kg	1	6.00	< 0.00650	109	61.2 - 142.7	7	20

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

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	\mathbf{Result}	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
Trifluorotoluene (TFT)	2.57	2.62	mg/Kg	1	2	128	131	62.7 - 139.6
4-Bromofluorobenzene (4-BFB)	2.12	2.15	$\mathrm{mg/Kg}$	1	2	106	108	49.6 - 146.7

Matrix Spike (MS-1) Spiked Sample: 217831

QC Batch:	66188	Date Analyzed:	2009-12-21	Analyzed By:	\mathbf{AG}
Prep Batch:	56577	QC Preparation:	2009-12-21	Prepared By:	\mathbf{AG}

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	\mathbf{Limit}
GRO	16.0	mg/Kg	1	20.0	< 0.396	80	10 - 198.3

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

	MSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
GRO	17.2	mg/Kg	1	20.0	< 0.396	86	10 - 198.3	7	20

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

	MS	MSD			Spike	MS	MSD	Rec.
Surrogate	Result	Result	Units	Dil.	Amount	Rec.	Rec.	Limit
$\overline{\mathrm{T}}$ rifluorotoluene (TFT)	2.10	2.22	mg/Kg	1	2	105	111	65.5 - 143
<u>4-Bromofluorobenzene (4-BFB)</u>	2.24	2.40	mg/Kg	1	2	112	120	58.6 - 140

Standard (CCV-2)

QC Batch: 66055

Date Analyzed: 2009-12-16

Analyzed By: kg

Report Dat 701014.013.	e: December 2: .01	3, 2009	V	Denton SWD	#5	Page N	Lea Co., NM
Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	274	110	80 - 120	2009-12-16
Standard ((CCV-3)						
QC Batch:	66055		Date Anal	yzed: 2009-12	-16	Ana	alyzed By: kg
_		TT 1.	CCVs True	CCVs Found	CCVs Percent	Percent Recovery	Date
Param DRO	Flag	Units mg/Kg	<u>Conc.</u> 250	<u>Conc.</u> 295	Recovery 118	Limits 80 - 120	Analyzed 2009-12-16
			ICVs True	ICVs Found	ICVs Percent	Percent Recoverv	Date
			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	99.6	100	85 - 115	2009-12-17
Standard (QC Batch:	(CCV-1) 66072		Date Anal	yzed: 2009-12-	17	Anal	yzed By: AR
			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2009-12-17
Standard ((CCV-1)		、				
			Date Analy	vzed: 2009-12-	21	Anal	yzed By: AG
QC Batch:	66187		Date mary				
QC Batch:	66187		CCVs True	CCVs Found	CCVs Percent	Percent	Date
QC Batch: Param	66187 Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recoverv	Percent Recovery Limits	Date Analyzed
QC Batch: Param Benzene	66187 Flag	Units mg/Kg	CCVs True Conc. 0.100	CCVs Found Conc. 0.0909	CCVs Percent Recovery 91	Percent Recovery Limits 80 - 120	Date Analyzed 2009-12-21
QC Batch: Param Benzene Toluene	66187 Flag	Units mg/Kg mg/Kg	CCVs True <u>Conc.</u> 0.100 0.100	CCVs Found Conc. 0.0909 0.0947	CCVs Percent Recovery 91 95	Percent Recovery Limits 80 - 120 80 - 120	Date Analyzed 2009-12-21 2009-12-21
QC Batch: Param Benzene Toluene Ethylbenzen	66187 Flag	Units mg/Kg mg/Kg mg/Kg	CCVs True <u>Conc.</u> 0.100 0.100 0.100	CCVs Found Conc. 0.0909 0.0947 0.0951	CCVs Percent Recovery 91 95 95	Percent Recovery Limits 80 - 120 80 - 120 80 - 120	Date Analyzed 2009-12-21 2009-12-21 2009-12-21

701014.013	3.01	23, 2009	Denton SWD #5			Lea Co., N		
Standard	(CCV-2)							
QC Batch:	66187		Date Analy	yzed: 2009-12-	21	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	0.0828	83	80 - 120	2009-12-21	
Toluene		m mg/Kg	0.100	0.0865	86	80 - 120	2009-12-21	
Ethylbenze	ene	m mg/Kg	0.100	0.0859	86	80 - 120	2009-12-21	
Xylene		mg/Kg	0.300	0.256	85	80 - 120	2009-12-21	
Standard	(CCV-1)				01			
Standard QC Batch:	(CCV-1) 66188		Date Analy	vzed: 2009-12-	21	Anal	yzed By: AG	
Standard QC Batch:	(CCV-1) 66188		Date Analy CCVs	vzed: 2009-12- CCVs	21 CCVs	Anal	yzed By: AG	
Standard QC Batch:	(CCV-1) 66188		Date Analy CCVs True	vzed: 2009-12- CCVs Found	21 CCVs Percent	Anal Percent Recovery	yzed By: AG Date	
Standard QC Batch: Param	(CCV-1) 66188 Flag	Units	Date Analy CCVs True Conc.	zed: 2009-12- CCVs Found Conc.	21 CCVs Percent Recovery	Anal Percent Recovery Limits	yzed By: AG Date Analyzed	
Standard QC Batch: Param GRO	(CCV-1) 66188 Flag	Units mg/Kg	Date Analy CCVs True Conc. 1.00	vzed: 2009-12- CCVs Found Conc. 0.965	21 CCVs Percent Recovery 96	Anal Percent Recovery Limits 80 - 120	yzed By: AG Date <u>Analyzed</u> 2009-12-21	
Standard QC Batch: Param GRO Standard QC Batch:	(CCV-1) 66188 Flag (CCV-2) 66188	Units mg/Kg	Date Analy CCVs True Conc. 1.00 Date Analy	vzed: 2009-12- CCVs Found Conc. 0.965 vzed: 2009-12-	21 CCVs Percent Recovery 96 21	Anal Percent Recovery Limits 80 - 120 Anal	yzed By: AG Date Analyzed 2009-12-21 yzed By: AG	
Standard QC Batch: Param GRO Standard QC Batch:	(CCV-1) 66188 Flag (CCV-2) 66188	Units mg/Kg	Date Analy CCVs True Conc. 1.00 Date Analy	 2009-12- CCVs Found Conc. 0.965 zzed: 2009-12- CCVs 	21 CCVs Percent Recovery 96 21	Anal Percent Recovery Limits 80 - 120 Anal Porcent	yzed By: AG Date <u>Analyzed</u> 2009-12-21 yzed By: AG	
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Standard QC Batch: Param GRO Standard QC Batch: Param	(CCV-1) 66188 Flag (CCV-2) 66188	Units mg/Kg	Date Analy CCVs True Conc. 1.00 Date Analy CCVs True Courc	vzed: 2009-12- CCVs Found Conc. 0.965 vzed: 2009-12- CCVs Found Conc	21 CCVs Percent Recovery 96 21 21 CCVs Percent Becovery	Anal Percent Recovery Limits 80 - 120 Anal Percent Recovery Limits	yzed By: AG Date Analyzed 2009-12-21 yzed By: AG Date Analyzed	

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LAB Order ID #						<u>.</u>	Page of		
TraceAna email: lab@trace	YSIS , analysis.co	Inc.	6701 Aberdeen Avenue, Lubbock, Texas 79 Tel (806) 794-129 Fax (806) 794-129 1 (800) 378-1296	Suite 9 5002 Ba 4 24 Mid la 6 Tel 98 Fax 5	asin Street, Suite A1 Ind, Texas 79703 (432) 689-6301 (432) 689-6313	200 East Sunset Rd., Suite El Paso, Texas 79922 Tel (915) 585-3443 Fax (915) 585-4944 1 (888) 588-3443	E BioAquatic Testing 2501 Mayes Rd., Ste 100 Carroliton, Texas 75006 Tel (972) 242-7750		
Company Name:	·	Ph 1423	one #:		ANALYSIS REQUEST				
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New Mexico Energy, Minerals and Natural Resources Department

Bill Richardson Governor

Jon Goldstein Cabinet Secretary Jim Noel Deputy Cabinet Secretary Mark Fesmire Division Director Oil Conservation Division



January 19, 2010

RECEIVED JAN 2 1 2010 FASKEN OIL AND RANCH, LTD.

Jimmy D. Carlile Fasken Oil and Ranch, Ltd. 303 West Wall, Suite 1800 Midland, TX 79701

RE: DENTON NO. 5 EXCAVATION CLOSURE

Dear Mr. Carlile:

This letter documents the approval via email of December 9, 2009 which stated that Fasken may move forward and close the Denton No. 5 excavation using a 40 mil liner and site like soils for cover. The cover soil must be tested for benzene, BTEX, TPH and chlorides and pass applicable limits before emplacement. The analytical data displaying the above must be included with the final closure report / C-141. Please call if you have any questions.

Thank you,

Healfrey Lekin

Geoffrey Leking Environmental Engineer NMOCD-Hobbs

> Oil Conservation Division * 1625 N. French Dr.* * Hobbs, New Mexico 88240 * Phone: (505) 393-6161 * Fax (505) 392-0720* <u>http://www.emnrd.state.nm.us</u>





UTM Grid shown in Blue

District 1		r		
1625 N. French Dr., Hobbs, NM 88240 District III 1301 W. Grund Avenue: Articula, NM 88210	State of Energy Minerals	New Mexico and Natural Resources		Form-C-141 Revised October 10, 2003
District III District III	Oil Conser	vation Division		Submit 2 Copies to appropriate District Office in accordance
District IV	1220 South	St. Francis Dr.		with Rule 116 on back
1220 S. St. Prancis Dr. Sargare, NM 67305	Santa Fe	e, NM 87505		
R	lease Notification	n and Corrective A	Action	
		OPERATOR	Initi	al Report
Address Mod mest wall 70 701	Ranch. Ltd.	Contact Jimmy D. (Telephone No. 432	larlile	
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Type of Release Salt Water		Volume of Release &	30 Volume	Recovered .5
Was Immediate Notice Given?		IFYES, To Whom? 9/20	$\frac{1}{108}$	/30/08
Yes	Non Not Required	imidi	night 9	_am
By Whom?		Date and Hour		· · · · · · · · · · · · · · · · · · ·
Was a Watercourse Reached?	X No	11-YES, Volume impacting	the watercourse.	
It's Watercourse was Impacted Describe En		<u></u>		``` <u>``````````````````````````````````</u>
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* Attach Additional Sheets If Necessary



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