Summary Report

Dorsey Rogers
Cimarex
207 S Mesa
Condehed NM 88220

Report Date: June 6, 2007

Work Order: 7060408

Carlsbad, NM, 88220

Project Location: Eddy County NM
Project Name: Margardt 1 Fed 1

Margaardt 1 Fed Rem #1 30 -015 - 33457

marguordt I fenn Fed #1			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
126170	NW-Floor-C	soil	2007-04-19	09:10	2007-06-02
126171	NE-Floor-C	soil	2007-04-19	09:00	2007-06-02
126172	SW-Floor-C	soil	2007-04-19	08:50	2007-06-02
126173	SE-Floor-C	soil	2007-04-19	08:40	2007-06-02
126174	N-Wall- C	soil	2007-04-19	08:20	2007-06-02
126175	S-Wall-C	soil	2007-04-19	08:30	2007-06-02
126176	E-Wall- C	soil	2007-04-19	08:10	2007-06-02
126177	W-Wall- C	soil	2007-04-19	08:00	2007-06-02

Sample: 126170 - NW-Floor-C

Param	Flag	Result	Units	RL
Chloride		283	mg/Kg	5.00

Sample: 126171 - NE-Floor-C

Param	Flag	Result	${f Units}$	RL
Chloride		< 500	mg/Kg	5.00

Sample: 126172 - SW-Floor-C

Param	Flag	Result	Units	RL
Chloride		169	mg/Kg	5.00

Sample: 126173 - SE-Floor-C

Param	Flag	Result	Units	RL
Chloride		1490	mg/Kg	5.00

Report Date: June 6, 2007		Work Order: 7060408 Marguardt 1 Fed Rem #1		Page Number: 2 of 2 Eddy County NM	
Sample: 126174 -	N-Wall-C				
Param	Flag	Result	Units	RL	
Chloride		648	mg/Kg	5.00	
Sample: 126175 -	- S-Wall-C				
Param	Flag	Result	\mathbf{Units}	RL	
Chloride		439	mg/Kg	5.00	
Sample: 126176 -	- E-Wall-C				
Param	Flag	\mathbf{Result}	Units	RL	
Chloride		755	mg/Kg	5.00	
Sample: 126177 -	- W-Wall-C				
Param	Flag	Result	Units	RL	
Chloride		843	mg/Kg	5.00	



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Analytical and Quality Control Report

Dorsey Rogers Cimarex 207 S MesaCarlsbad, NM, 88220

Report Date: June 6, 2007

Work Order: 7060408

Project Location: Eddy County NM

Project Name: Project Number: Marguardt 1 Fed Rem #1 Marguardt 1 Fed Rem #1

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
126170	NW-Floor-C	soil	2007-04-19	09:10	2007-06-02
126171	${f NE} ext{-Floor-C}$	soil	2007-04-19	09:00	2007-06-02
126172	$\operatorname{SW-Floor-C}$	soil	2007-04-19	08:50	2007-06-02
126173	SE-Floor- C	soil	2007-04-19	08:40	2007-06-02
126174	N-Wall-C	soil	2007-04-19	08:20	2007-06-02
126175	$\operatorname{S-Wall-C}$	soil	2007-04-19	08:30	2007-06-02
126176	E-Wall-C	soil	2007-04-19	08:10	2007-06-02
126177	W-Wall-C	soil	2007-04-19	08:00	2007-06-02

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

Dr. Blair Leftwich, Director

Standard Flags

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

Case Narrative

Samples for project Marguardt 1 Fed Rem #1 were received by TraceAnalysis, Inc. on 2007-06-02 and assigned to work order 7060408. Samples for work order 7060408 were received intact at a temperature of 22.0 deg C.

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

Test	Method
Chloride (Titration)	SM 4500-Cl B

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 7060408 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.

Work Order: 7060408 Marguardt 1 Fed Rem #1 Page Number: 3 of 7 Eddy County NM

Analytical Report

Sample:	126170 -	NW-Floor-	C
Jaminie.	140110 -	14 44 -1 1001-	\cdot

Analysis: Chloride (Titration)

QC Batch: 37861 Prep Batch: 32793

Analytical Method: SM 4500-Cl B Date Analyzed: 2007-06-06

Sample Preparation: 2007-06-05 Prep Method: N/A Analyzed By: JS Prepared By:

RL

Parameter	Flag	Result	Units	Dilution	RL
Chloride		283	mg/Kg	20	5.00

Sample: 126171 - NE-Floor-C

Analysis: Chloride (Titration) QC Batch: 37861 Prep Batch: 32793

Analytical Method: Date Analyzed:

SM 4500-Cl B 2007-06-06 2007-06-05

Prep Method: N/A Analyzed By: JS

Sample Preparation:

Prepared By: SM

RLParameter Result Units Dilution RLFlag Chloride < 500 5.00 mg/Kg 100

Sample: 126172 - SW-Floor-C

Analysis: Chloride (Titration) QC Batch: 37861 Prep Batch: 32793

Analytical Method: SM 4500-Cl B Date Analyzed: 2007-06-06 Sample Preparation: 2007-06-05

Prep Method: N/A Analyzed By: JSPrepared By: SM

ВI

		1(1)			
Parameter	Flag	Result	\mathbf{Units}	Dilution	RL
Chloride		169	mg/Kg	20	5.00

Sample: 126173 - SE-Floor-C

Analysis: Chloride (Titration) QC Batch: 37861 Prep Batch: 32793

Chloride

Analytical Method: Date Analyzed: 2007-06-06 Sample Preparation: 2007-06-05

SM 4500-Cl B Prep Method: N/A Analyzed By: JSPrepared By:

Parameter Flag

RL			
Result	Units	Dilution	$_{ m RL}$
1490	mg/Kg	100	5.00

Sample: 126174 - N-Wall-C

Analysis: Chloride (Titration) QC Batch: 37861 Prep Batch: 32793

Analytical Method: SM 4500-Cl B Date Analyzed: 2007-06-06 Sample Preparation: 2007-06-05

Prep Method: N/A Analyzed By: JS Prepared By: SM

Work Order: 7060408Marguardt 1 Fed Rem #1 Page Number: 4 of 7 Eddy County NM

D	D)	RL	TT **	Dilection	$_{ m RL}$
Parameter Chloride	Flag	Result 648	Units mg/Kg	Dilution 100	$\frac{\text{RL}}{5.00}$
Chloride		040	mg/ K g	100	3.00
Sample: 12	6175 - S-Wall-C				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37862	Date Analyzed:	2007-06-06	Analyzed By:	JS
Prep Batch:	32794	Sample Preparation:	2007-06-05	Prepared By:	SM
		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		439	mg/Kg	20	5.00
Sample: 12 Analysis: QC Batch: Prep Batch:	6176 - E-Wall-C Chloride (Titration) 37862 32794	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2007-06-06 2007-06-05	Prep Method: Analyzed By: Prepared By:	N/A JS SM
•					
Parameter	Flag	RL Result	Units	Dilution	RL
Chloride	1145		mg/Kg	4	5.00
Analysis: QC Batch: Prep Batch:	6177 - W-Wall-C Chloride (Titration) 37862 32794	Analytical Method: Date Analyzed: Sample Preparation:	SM 4500-Cl B 2007-06-06 2007-06-05	Prep Method: Analyzed By: Prepared By:	N/A JS SM
	F)	RL	TI **	D:1 · ·	DI
Parameter Chloride	Flag	Result 843	$\frac{ ext{Units}}{ ext{mg/Kg}}$	Dilution 100	$\frac{\text{RL}}{5.00}$
Chloride		040	шд/ кд	100	3.00
Method Bl	ank (1) QC Batch: 37861				
QC Batch: Prep Batch:	37861 32793	Date Analyzed: 2007 QC Preparation: 2007	7-06-06 7-06-05	Analyzed By Prepared By	
		MDL			
Parameter	Flag	Result		Units	$\frac{\text{RL}}{5}$
Chloride		<3.25		mg/Kg	<u>υ</u>
Method Bl	ank (1) QC Batch: 37862	2			
QC Batch:	37862	•	'-06-06	Analyzed By	
Prep Batch:	32794	QC Preparation: 2007	'- 06-05	Prepared By	: JS

Work Order: 7060408 Marguardt 1 Fed Rem #1 Page Number: 5 of 7 **Eddy County NM**

		MDL		
Parameter	Flag	Result	Units	RL
Chloride		< 3.25	mg/Kg	5

Laboratory Control Spike (LCS-1)

QC Batch:

Prep Batch: 32793

Date Analyzed:

2007-06-06 QC Preparation: 2007-06-05

Analyzed By: JS Prepared By: JS

Rec.

Limit

90 - 110

LCS Spike Matrix Dil. Param Result Units Amount Result Rec. Chloride 98.3 mg/Kg 100 < 3.25 98

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	102	mg/Kg	1	100	< 3.25	102	90 - 110	3	20

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

Laboratory Control Spike (LCS-1)

QC Batch:

37862

Date Analyzed:

2007-06-06

Analyzed By: JS

Prep Batch: 32794

QC Preparation: 2007-06-05

Prepared By: JS

	LCS			Spike	Matrix		Rec.
Param	Result	\mathbf{Units}	Dil.	Amount	Result	Rec.	Limit
Chloride	98.4	mg/Kg	1	100	< 3.25	98	90 - 110

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	\mathbf{Units}	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	102	mg/Kg	1	100	< 3.25	102	90 - 110	3	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: 126172

QC Batch:

37861

Date Analyzed:

2007-06-06

Analyzed By: JS

Prep Batch: 32793

QC Preparation: 2007-06-05

Prepared By: JS

		MS			\mathbf{Spike}	Matrix		$\mathrm{Rec}.$
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride	1	581	mg/Kg	20	2000	168.793	21	84.6 - 117

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

¹Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control.

Work Order: 7060408 Marguardt 1 Fed Rem #1 Page Number: 6 of 7 Eddy County NM

matrix spikes continued ...

Param		$\begin{array}{c} \text{MSD} \\ \text{Result} \end{array}$	Units	Dil.	$\begin{array}{c} {\rm Spike} \\ {\rm Amount} \end{array}$	Matrix Result	Rec.	${ m Rec.} \ { m Limit}$	RPD	$egin{array}{c} ext{RPD} \ ext{Limit} \end{array}$
Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	2	742	mg/Kg	20	2000	168.793	29	84.6 - 117	24	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: 126175

QC Batch: 37862 Date Analyzed: 2007-06-06 Analyzed By: JS

Prep Batch: 32794

QC Preparation: 2007-06-05

Prepared By: JS

		MS			\mathbf{Spike}	Matrix		Rec.
Param		Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride	3	584	mg/Kg	20	2000	439.216	7	84.6 - 117

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

		MSD			\mathbf{Spike}	Matrix		Rec .		RPD
Param		Result	\mathbf{Units}	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	4	745	mg/Kg	20	2000	439.216	15	84.6 - 117	24	20

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

Standard (ICV-1)

QC Batch: 37861

Date Analyzed: 2007-06-06

Analyzed By: JS

			$rac{ ext{ICVs}}{ ext{True}}$	$rac{ ext{ICVs}}{ ext{Found}}$	$\begin{array}{c} \rm ICVs \\ \rm Percent \end{array}$	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2007-06-06

Standard (CCV-1)

QC Batch: 37861

Date Analyzed: 2007-06-06

Analyzed By: JS

			CCVs	\mathbf{CCVs}	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	\mathbf{Flag}	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		${ m mg/Kg}$	100	99.9	100	85 - 115	2007-06-06

Standard (ICV-1)

QC Batch: 37862

Date Analyzed: 2007-06-06

Analyzed By: JS

²Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control. ³Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control.

⁴Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control.

Work Order: 7060408 Marguardt 1 Fed Rem #1 Page Number: 7 of 7 Eddy County NM

			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	\mathbf{Flag}	${f Units}$	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2007-06-06

Standard (CCV-1)

QC Batch: 37862

Date Analyzed: 2007-06-06

Analyzed By: JS

			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	2007-06-06

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TraceAnalysis, Inc.											6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 Tel (806) 794-1296 Fax (806) 794-1298						5	5002 Basin Street, Suite A1 Midland, Texas 79703 Tel (432) 689-6301 Fax (432) 689-6313							200 East Sunset Rd., Suite E El Paso, Texas 79922 Tel (915) 585-3443 Fax (915) 585-4944 6015 Harris Pkwy., Suite 110 Ft. Worth, Texas 76132 Tel (817) 201-5260														
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Submittal of samples constitutes agreement to Terms and Conditions listed of reverse side of C. O. C.

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