Work Order: 7060716 Marguardt-1 Pennfed #3 Page Number: 1 of 2 Sec. 1, T25s, R26e

Summary Report

Dorsey Rogers Cimarex 207 S Mesa

Carlsbad, NM, 88220

Report Date: June 7, 2007

Work Order: 7060716

Project Location: Sec. 1, T25s, R26e
Project Name: Marguardt-1 Pennfed #3
Project Number: API #30-015-34788

			Date	\mathbf{Time}	Date
Sample	Description	Matrix	\mathbf{Taken}	Taken	Received
126642	#001 S. E. Corner 3'	soil	2007-06-06	11:00	2007-06-07
126643	#002 N. E. Corner 3'	soil	2007-06-06	12:00	2007-06-07
126644	#003 N. W. Corner 3'	soil	2007-06-06	13:00	2007-06-07
126645	#004 S. W. Corner 3'	soil	2007-06-06	14:00	2007-06-07
126646	#005 Background	soil	2007-06-06	15:00	2007-06-07

Sample: 126642 - #001 S. E. Corner 3'

Param	Flag	Result	Units	RL
Chloride		273	mg/Kg	5.00

Sample: 126643 - #002 N. E. Corner 3'

Param	Flag	Result	Units	RL
Chloride		242	mg/Kg	5.00

Sample: 126644 - #003 N. W. Corner 3'

Param	Flag	Result	${f Units}$	RL
Chloride		198	mg/Kg	5.00

Sample: 126645 - #004 S. W. Corner 3'

Param	Flag	Result	Units	RL
Chloride		67.3	mg/Kg	5.00

Sample: 126646 - #005 Background

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This is only a summary. Please, refer to the complete report package for quality control data.

Work Order: 7060716 Marguardt-1 Pennfed #3 Page Number: 2 of 2 Sec. 1, T25s, R26e

Param	Flag	Result	Units	RL
Chloride		< 20.0	mg/Kg	5.00



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E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Dorsey Rogers Cimarex 207 S MesaCarlsbad, NM, 88220

Report Date: June 7, 2007

Work Order: 7060716

Project Location:

Sec. 1, T25s, R26e

Project Name: Project Number: Marguardt-1 Pennfed #3 API #30-015-34788

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
126642	#001 S. E. Corner 3'	soil	2007-06-06	11:00	2007-06-07
126643	#002 N. E. Corner 3'	soil	2007-06-06	12:00	2007-06-07
126644	#003 N. W. Corner 3'	soil	2007-06-06	13:00	2007-06-07
126645	#004 S. W. Corner 3'	soil	2007-06-06	14:00	2007-06-07
126646	#005 Background	soil	2007-06-06	15:00	2007-06-07

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.

Dr. Blair Leftwich, Director

Michael all

Standard Flags

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

Case Narrative

Samples for project Marguardt-1 Pennfed #3 were received by TraceAnalysis, Inc. on 2007-06-07 and assigned to work order 7060716. Samples for work order 7060716 were received intact at a temperature of 1.0 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 7060716 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: 7060716 Marguardt-1 Pennfed #3 Page Number: 3 of 5 Sec. 1, T25s, R26e

Analytical Report

Sample: 126642 - #001 S. E. Corner 3	Sample:	126642	- #001	S. E.	Corner	3'
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Analysis:

Chloride (Titration)

QC Batch: 37945 Analytical Method:

SM 4500-Cl B 2007-06-07

Prep Method: N/A Analyzed By: JS

Prep Batch:

32858

Date Analyzed: Sample Preparation:

2007-06-07

Prepared By: SM

RL

Parameter Chloride

Flag Result 273

Units mg/Kg Dilution $\overline{20}$

RL5.00

Sample: 126643 - #002 N. E. Corner 3'

Analysis:

Chloride (Titration)

Analytical Method:

SM 4500-Cl B

Prep Method: N/A

QC Batch: Prep Batch:

37945 32858

Date Analyzed: Sample Preparation:

2007-06-07 2007-06-07 Analyzed By: Prepared By:

JS SM

RL

5.00

RL

Parameter Flag Chloride

 ${\bf Result}$ Units 242 mg/Kg Dilution 20

Sample: 126644 - #003 N. W. Corner 3'

Analysis: QC Batch: Chloride (Titration)

37945

Flag

Analytical Method:

SM 4500-Cl B 2007-06-07

Prep Method: N/A Analyzed By: JS

Prep Batch:

32858

Date Analyzed: Sample Preparation:

2007-06-07

Prepared By: SM

RL

Parameter Chloride

Result Units 198 mg/Kg Dilution 20 RL

5.00

Sample: 126645 - #004 S. W. Corner 3'

Analysis:

Chloride (Titration)

Analytical Method:

SM 4500-Cl B

Prep Method: N/A

QC Batch: Prep Batch: 37945

Date Analyzed:

2007-06-07

Analyzed By: JS

32858

Sample Preparation:

2007-06-07

Prepared By: SM

RLResult

Parameter Flag Chloride

67.3

Units mg/Kg Dilution 10 RL

5.00

Sample: 126646 - #005 Background

32858

Analysis: QC Batch: Prep Batch:

Chloride (Titration) 37945

Analytical Method: Date Analyzed: Sample Preparation:

SM 4500-Cl B 2007-06-07 2007-06-07

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

Work Order: 7060716 Marguardt-1 Pennfed #3 Page Number: 4 of 5 Sec. 1, T25s, R26e

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		< 20.0	mg/Kg	4	5.00

Method Blank (1)

QC Batch: 37945

QC Batch: Prep Batch: 32858

37945

Date Analyzed:

2007-06-07

QC Preparation: 2007-06-07

Analyzed By: JS

Prepared By: JS

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

Laboratory Control Spike (LCS-1)

QC Batch:

37945 Prep Batch: 32858

Date Analyzed:

2007-06-07

Analyzed By: JS

QC Preparation: 2007-06-07 Prepared By: JS

	LCS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride	97.8	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			$_{ m Spike}$	Matrix		Rec.		RPD
Param	Result	${f Units}$	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	98.2	mg/Kg	1	100	< 3.25	98	90 - 110	0	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: 126646

QC Batch:

37945

Prep Batch: 32858

Date Analyzed:

2007-06-07

Analyzed By: JS Prepared By: JS

		MS			Spike	Matrix		Rec.
Param		Result	Units	Dil.	Amount	Result	Rec.	\mathbf{Limit}
Chloride	 1	192	mg/Kg	4	400	<13.0	48	84.6 - 117

QC Preparation: 2007-06-07

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	2	202	mg/Kg	4	400	<13.0	50	84.6 - 117	5	20

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

¹Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control. ²Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control.

Work Order: 7060716 Marguardt-1 Pennfed #3 Page Number: 5 of 5 Sec. 1, T25s, R26e

Standard (ICV-1)

QC Batch: 37945

 $Date\ Analyzed:\ \ 2007\text{-}06\text{-}07$

Analyzed By: JS

			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	99.2	99	85 - 115	2007-06-07

Standard (CCV-1)

QC Batch: 37945

Date Analyzed: 2007-06-07

Analyzed By: JS

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	${f Units}$	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2007-06-07

LAB Order ID#

1D# 7060716

Pε	age	of	

TraceAnalysis, Inc.

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