

## Summary Report

Dorsey Rogers  
Cimarex  
207 S Mesa  
Carlsbad, NM, 88220

Report Date: June 6, 2007

Work Order: 7060411



Project Location: Eddy County NM  
Project Name: Vern #1

**30-015-34109**

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
126192	NW-Floor-C	soil	2000-05-04	15:00	2007-06-02
126193	NE-Floor-C	soil	2000-05-04	15:15	2007-06-02
126194	SW-Floor-C	soil	2000-05-04	15:30	2007-06-02
126195	SE-Floor-C	soil	2000-05-04	15:40	2007-06-02
126196	Center Floor-C	soil	2000-05-04	15:50	2007-06-02

**Sample: 126192 - NW-Floor-C**

Param	Flag	Result	Units	RL
Chloride		<b>174</b>	mg/Kg	5.00

**Sample: 126193 - NE-Floor-C**

Param	Flag	Result	Units	RL
Chloride		<b>224</b>	mg/Kg	5.00

**Sample: 126194 - SW-Floor-C**

Param	Flag	Result	Units	RL
Chloride		<b>166</b>	mg/Kg	5.00

**Sample: 126195 - SE-Floor-C**

Param	Flag	Result	Units	RL
Chloride		<b>138</b>	mg/Kg	5.00

**Sample: 126196 - Center Floor-C**

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

Report Date: June 6, 2007

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Vern #1

Page Number: 2 of 2  
Eddy County NM

Param	Flag	Result	Units	RL
Chloride		138	mg/Kg	5.00



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## Analytical and Quality Control Report

Dorsey Rogers  
Cimarex  
207 S Mesa  
Carlsbad, NM, 88220

Report Date: June 6, 2007

Work Order: 7060411



Project Location: Eddy County NM  
Project Name: Vern #1  
Project Number: Vern #1

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

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
126192	NW-Floor-C	soil	2000-05-04	15:00	2007-06-02
126193	NE-Floor-C	soil	2000-05-04	15:15	2007-06-02
126194	SW-Floor-C	soil	2000-05-04	15:30	2007-06-02
126195	SE-Floor-C	soil	2000-05-04	15:40	2007-06-02
126196	Center Floor-C	soil	2000-05-04	15:50	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 6 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

### Standard Flags

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

## Case Narrative

Samples for project Vern #1 were received by TraceAnalysis, Inc. on 2007-06-02 and assigned to work order 7060411. Samples for work order 7060411 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 7060411 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: 126192 - NW-Floor-C

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37863	Date Analyzed:	2007-06-06	Analyzed By:	JS
Prep Batch:	32795	Sample Preparation:	2007-06-05	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		174	mg/Kg	4	5.00

### Sample: 126193 - NE-Floor-C

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37863	Date Analyzed:	2007-06-06	Analyzed By:	JS
Prep Batch:	32795	Sample Preparation:	2007-06-05	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		224	mg/Kg	4	5.00

### Sample: 126194 - SW-Floor-C

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37863	Date Analyzed:	2007-06-06	Analyzed By:	JS
Prep Batch:	32795	Sample Preparation:	2007-06-05	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		166	mg/Kg	4	5.00

### Sample: 126195 - SE-Floor-C

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37864	Date Analyzed:	2007-06-06	Analyzed By:	JS
Prep Batch:	32796	Sample Preparation:	2007-06-05	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		138	mg/Kg	4	5.00

### Sample: 126196 - Center Floor-C

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37864	Date Analyzed:	2007-06-06	Analyzed By:	JS
Prep Batch:	32796	Sample Preparation:	2007-06-05	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		138	mg/Kg	4	5.00

**Method Blank (1)**      QC Batch: 37863

QC Batch: 37863      Date Analyzed: 2007-06-06      Analyzed By: JS  
Prep Batch: 32795      QC Preparation: 2007-06-05      Prepared By: JS

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

**Method Blank (1)**      QC Batch: 37864

QC Batch: 37864      Date Analyzed: 2007-06-06      Analyzed By: JS  
Prep Batch: 32796      QC Preparation: 2007-06-05      Prepared By: JS

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

**Laboratory Control Spike (LCS-1)**

QC Batch: 37863      Date Analyzed: 2007-06-06      Analyzed By: JS  
Prep Batch: 32795      QC Preparation: 2007-06-05      Prepared By: JS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	104	mg/Kg	1	100	<3.25	104	90 - 110

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	100	mg/Kg	1	100	<3.25	100	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: 37864      Date Analyzed: 2007-06-06      Analyzed By: JS  
Prep Batch: 32796      QC Preparation: 2007-06-05      Prepared By: JS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	104	mg/Kg	1	100	<3.25	104	90 - 110

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	104	mg/Kg	1	100	<3.25	104	90 - 110	1	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: 126191

QC Batch: 37863  
Prep Batch: 32795

Date Analyzed: 2007-06-06  
QC Preparation: 2007-06-05

Analyzed By: JS  
Prepared By: JS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	<sup>1</sup> 254	mg/Kg	4	400	40.665	53	84.6 - 117

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	<sup>2</sup> 242	mg/Kg	4	400	40.665	50	84.6 - 117	5	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: 126201

QC Batch: 37864  
Prep Batch: 32796

Date Analyzed: 2007-06-06  
QC Preparation: 2007-06-05

Analyzed By: JS  
Prepared By: JS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	<sup>3</sup> 356	mg/Kg	4	400	155.534	50	84.6 - 117

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	<sup>4</sup> 349	mg/Kg	4	400	155.534	48	84.6 - 117	2	20

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

**Standard (ICV-1)**

QC Batch: 37863

Date Analyzed: 2007-06-06

Analyzed By: JS

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.7	100	85 - 115	2007-06-06

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

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

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

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

**Standard (CCV-1)**

QC Batch: 37863

Date Analyzed: 2007-06-06

Analyzed By: JS

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

**Standard (ICV-1)**

QC Batch: 37864

Date Analyzed: 2007-06-06

Analyzed By: JS

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.1	99	85 - 115	2007-06-06

**Standard (CCV-1)**

QC Batch: 37864

Date Analyzed: 2007-06-06

Analyzed By: JS

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



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