Summary Report

Shelly Tucker
Cimarex
207 S Mesa
Carlsbad, NM, 88220

30-015-34675

Report Date: June 6, 2007

Work Order: 7060407

Project Location: Eddy County NM
Project Name: Crow Flats 7-1

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
126164	NW-Floor-C	soil	2007-04-27	09:30	2007-06-02
126165	NE-Floor-C	soil	2007-04-27	09:40	2007-06-02
126166	SW-Floor-C	soil	2007-04-27	09:55	2007-06-02
126167	SE-Floor-C	soil	2007-04-27	10:10	2007-06-02
126168	Center-C	soil	2007-04-27	10:20	2007-06-02
126169	Background	soil	2007-04-27	10:40	2007-06-02

Sample: 126164 - NW-Floor-C

Param	Flag	Result	Units	RL
Chloride		**318**	mg/Kg	5.00

Sample: 126165 - NE-Floor-C

Param	Flag	Result	Units	RL
Chloride		**589**	mg/Kg	5.00

Sample: 126166 - SW-Floor-C

Param	Flag	Result	Units	RL
Chloride		**369**	mg/Kg	5.00

Sample: 126167 - SE-Floor-C

Param	Flag	Result	Units	RL
Chloride		**424**	mg/Kg	5.00

Sample: 126168 - Center-C

Param	Flag	Result	Units	RL
Chloride		**687**	mg/Kg	5.00

Sample: 126169 - Background

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

TRACEANALYSIS, INC.

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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: 7060407

Project Location: Eddy County NM
Project Name: Crow Flats 7-1
Project Number: Crow Flats 7-1

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
126164	NW-Floor-C	soil	2007-04-27	09:30	2007-06-02
126165	NE-Floor-C	soil	2007-04-27	09:40	2007-06-02
126166	SW-Floor-C	soil	2007-04-27	09:55	2007-06-02
126167	SE-Floor-C	soil	2007-04-27	10:10	2007-06-02
126168	Center-C	soil	2007-04-27	10:20	2007-06-02
126169	Background	soil	2007-04-27	10:40	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.

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 Crow Flats 7-1 were received by TraceAnalysis, Inc. on 2007-06-02 and assigned to work order 7060407. Samples for work order 7060407 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 7060407 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: 126164 - NW-Floor-C

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37860	Date Analyzed:	2007-06-06	Analyzed By:	SM
Prep Batch:	32792	Sample Preparation:	2007-06-05	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**318**	mg/Kg	20	5.00

Sample: 126165 - NE-Floor-C

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37861	Date Analyzed:	2007-06-06	Analyzed By:	JS
Prep Batch:	32793	Sample Preparation:	2007-06-05	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**589**	mg/Kg	100	5.00

Sample: 126166 - SW-Floor-C

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37861	Date Analyzed:	2007-06-06	Analyzed By:	JS
Prep Batch:	32793	Sample Preparation:	2007-06-05	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**369**	mg/Kg	20	5.00

Sample: 126167 - SE-Floor-C

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37861	Date Analyzed:	2007-06-06	Analyzed By:	JS
Prep Batch:	32793	Sample Preparation:	2007-06-05	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**424**	mg/Kg	20	5.00

Sample: 126168 - Center-C

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37861	Date Analyzed:	2007-06-06	Analyzed By:	JS
Prep Batch:	32793	Sample Preparation:	2007-06-05	Prepared By:	SM

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**687**	mg/Kg	100	5.00

Sample: 126169 - Background

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37861	Date Analyzed:	2007-06-06	Analyzed By:	JS
Prep Batch:	32793	Sample Preparation:	2007-06-05	Prepared By:	SM

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

Method Blank (1) QC Batch: 37860

QC Batch:	37860	Date Analyzed:	2007-06-06	Analyzed By:	SM
Prep Batch:	32792	QC Preparation:	2007-06-05	Prepared By:	SM

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

Method Blank (1) QC Batch: 37861

QC Batch:	37861	Date Analyzed:	2007-06-06	Analyzed By:	JS
Prep Batch:	32793	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:	37860	Date Analyzed:	2007-06-06	Analyzed By:	SM
Prep Batch:	32792	QC Preparation:	2007-06-05	Prepared By:	SM

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	100	mg/Kg	1	100	<3.25	100	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	98.2	mg/Kg	1	100	<3.25	98	90 - 110	2	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: 37861 | Date Analyzed: 2007-06-06 | Analyzed By: JS
Prep Batch: 32793 | QC Preparation: 2007-06-05 | Prepared By: JS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	98.3	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.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	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: 126164

QC Batch: 37860 | Date Analyzed: 2007-06-06 | Analyzed By: SM
Prep Batch: 32792 | QC Preparation: 2007-06-05 | Prepared By: SM

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride [1]	674	mg/Kg	20	2000	317.647	18	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 [2]	537	mg/Kg	20	2000	317.647	11	84.6 - 117	23	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

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride [3]	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.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride [4]	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.

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

Standard (ICV-1)

QC Batch: 37860 Date Analyzed: 2007-06-06 Analyzed By: SM

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

Standard (CCV-1)

QC Batch: 37860 Date Analyzed: 2007-06-06 Analyzed By: SM

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: 37861 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	100	100	85 - 115	2007-06-06

Standard (CCV-1)

QC Batch: 37861 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	99.9	100	85 - 115	2007-06-06

LAB Order ID # 7060409 Page 1 of 1

TraceAnalysis, Inc.

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Company Name: Cimarex Phone #:

Address: (Street, City, Zip) 207 S Mesa Carlsbad NM 88220 Fax #:

Contact Person: Dorsey Rogers E-mail: Dorsey + Shelly

Invoice to: (if different from above)

Project #: Project Name: Crow Flats 7-1

Project Location (including state): Eddy County NM Sampler Signature: Shelly Tuck

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
6164	NW-Floor-C	1			✓									4-27-07	930
165	NE-Floor-C	1			✓									4-27-07	940
166	SW-Floor-C	1			✓									4-27-07	955
167	SE-Floor-C	1			✓									4-27-07	1000
168	Center-C	1			✓									4-27-07	1020
169	Background	1			✓									4-27-07	1040

MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Turn Around Time if different from standard	Hold
																✓		

Relinquished by: Shelly Tuck Date: 6-1-07 Time: 700p
Received by: [signature] Date: 6-1-07 Time: 7pm

Relinquished by: Date: Time:
Received by: Date: Time:

Relinquished by: Date: Time:
Received at Laboratory by: [signature] Date: 6/2/07 Time: 10:20

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ORIGINAL COPY

LAB USE ONLY

Intact Y / N
Headspace Y / N
Temp 22 °
Log-in-Review DR

REMARKS:

☐ Dry Weight Basis Required
☐ TRRP Report Required
☐ Check If Special Reporting Limits Are Needed

Carrier # Walk in