Work Order: 7040615

Page Number: 1 of 2

# **Summary Report**

Tony Tucker

Range Operating New Mexico Inc.

P.O. Box 300

Loving, NM, 88256

Report Date: April 6, 2007

Work Order: 7040615

Project Number: Teledyne 12 Fed Com #1

30-015-33930

			Date	$\mathbf{Time}$	Date
Sample	Description	Matrix	Taken	$\operatorname{Taken}$	Received
121103	N Wall & Floor	soil	2007-04-04	08:00	2007-04-06
121104	S Wall & Floor	soil	2007-04-04	08:20	2007-04-06
121105	E Wall & Floor	soil	2007-04-04	08:20	2007-04-06
121106	W Wall & Floor	soil	2007-04-04	09:00	2007-04-06
121107	Background	soil	2007-04-04	00.20	2007-04-06

Sample: 121103 - N Wall & Floor

Param	Flag	Result	Units	$_{ m L}$
Chloride		29.3	mg/Kg	5.00

Sample: 121104 - S Wall & Floor

Param	Flag	Result	Units	RL
Chloride		19.8	mg/Kg	5.00

Sample: 121105 - E Wall & Floor

Param	Flag	Result	Units	$_{ m L}$
Chloride		35.7	mg/Kg	5.00

Sample: 121106 - W Wall & Floor

Param	Flag	Result	$\mathbf{Units}$	RL
Chloride		30.9	mg/Kg	5.00

Sample: 121107 - Background

Work Order: 7040615

Page Number: 2 of 2

Param	$\operatorname{Flag}$	Result	Units	RL
Chloride		66.6	m mg/Kg	5.00



6701 Aberdeen Avenue, Suite 9 209 East Sunset Road, Suite E 5092 Basin Street, Suite A1

6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132

El Paso, Texas 79922 Midland Texas 79703

888 • 588 • 3443

806 • 794 • 1296 915 • 585 • 3443

FAX 915+585+4944 FAX 432 • 589 • 6313

432 • 689 • 6301

817 • 201 • 5260

E-Mail: lab@traceanalysis.com

# Analytical and Quality Control Report

Tony Tucker Range Operating New Mexico Inc. P.O. Box 300 Loving, NM, 88256

Report Date: April 6, 2007

Work Order: 7040615 

Project Number: Teledyne 12 Fed Com #1

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

			Date	${f Time}$	Date
Sample	Description	Matrix	Taken	$\operatorname{Taken}$	Received
121103	N Wall & Floor	soil	2007-04-04	08:00	2007-04-06
121104	S Wall & Floor	soil	2007-04-04	08:20	2007-04-06
121105	E Wall & Floor	soil	2007-04-04	08:20	2007-04-06
121106	W Wall & Floor	soil	2007-04-04	09:00	2007-04-06
121107	Background	soil	2007-04-04	09:20	2007-04-06

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 ale

#### Standard Flags

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

### Case Narrative

Samples for project were received by TraceAnalysis, Inc. on 2007-04-06 and assigned to work order 7040615. Samples for work order 7040615 were received intact at a temperature of 22 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 7040615 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 preformed 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: 7040615

Page Number: 3 of 5

# **Analytical Report**

Sample: 121103 - N Wall & Floor

Analysis: Chloride (Titration)

QC Batch: 36262 Prep Batch: 31462 Analytical Method: Date Analyzed: Sample Preparation:

SM 4500-Cl B 2007-04-06 2007-04-06

Analyzed By:  $_{
m JS}$ Prepared By: JS

N/A

Prep Method:

RL

Parameter Flag Result Units Dilution RLChloride 29.3 5.00 mg/Kg

Sample: 121104 - S Wall & Floor

Analysis: QC Batch:

Prep Batch:

Chloride (Titration)

36262 31462 Analytical Method: Date Analyzed:

Sample Preparation:

SM 4500-Cl B 2007-04-06

2007-04-06

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

RL

Parameter Flag Result Units Dilution RLChloride  $\overline{19.8}$ mg/Kg 2 5.00

Sample: 121105 - E Wall & Floor

Analysis:

Chloride (Titration)

QC Batch: 36262 Prep Batch: 31462 Analytical Method: Date Analyzed:

Sample Preparation:

SM 4500-Cl B 2007-04-06 2007-04-06

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

RL

Parameter Flag Result Units Dilution RLChloride 35.7 5.00 mg/Kg 4

Sample: 121106 - W Wall & Floor

Analysis: QC Batch: Chloride (Titration)

36262 Prep Batch: 31462 Analytical Method: Date Analyzed:

Sample Preparation:

SM 4500-Cl B 2007-04-06 2007-04-06

Prep Method: N/A Analyzed By: JS

JS

JS

Prepared By:

RL

Parameter Flag Result Units Dilution RLChloride 30.9 mg/Kg 5.004

Sample: 121107 - Background

Analysis: QC Batch: Chloride (Titration)

36262 Prep Batch: 31462

Analytical Method: Date Analyzed:

Sample Preparation:

SM 4500-Cl B 2007-04-06 2007-04-06

Prep Method: N/A Analyzed By: JS

Prepared By:

Work Order: 7040615

Page Number: 4 of 5

Parameter	Flag	$\mathbf{Result}$		Unit			Dilution			RI
Chloride		66.6		mg/K	g		4			5.00
Method Blank (1)	QC Batch: 36262	;								
QC Batch: 36262		Date Analy		2007-04-06					yzed By	
Prep Batch: 31462		QC Prepar	ration:	2007-04-06				Prep	ared By	: JS
			MDI	L						
Parameter	Flag		Resul	t		Unit	ts			RI
				_		77				
Chloride Laboratory Control	l Spike (LCS-1)		<3.28			mg/l	Kg			
Chloride  Laboratory Control  QC Batch: 36262	Spike (LCS-1)	Date Analy	yzed:	2007-04-06		mg/I	Kg		yzed By	: JS
Chloride  Laboratory Control  QC Batch: 36262	Spike (LCS-1)	Date Analy QC Prepar	yzed:			mg/I	Kg		yzed By ared By	: JS
Chloride  Laboratory Control  QC Batch: 36262	. , ,	•	yzed:	2007-04-06			.trix		ared By	: JS
Chloride  Laboratory Control  QC Batch: 36262  Prep Batch: 31462	I Re	QC Prepar CCS esult Un	yzed: ration: nits	2007-04-06 2007-04-06 Dil.	$\begin{array}{c} {\rm Spike} \\ {\rm Amount} \end{array}$	Ma Re:	trix sult	Preparent Rec.	ared By	: JS : JS Rec. Limit
Chloride  Laboratory Control  QC Batch: 36262  Prep Batch: 31462	I Re	QC Prepar	yzed: ration: nits	2007-04-06 2007-04-06	Spike	Ma Re:	trix	Prep	ared By	: JS : JS Rec. Limit
Chloride  Laboratory Control  QC Batch: 36262  Prep Batch: 31462  Param  Chloride	I Re	QC Prepar  LCS esult Un  101 mg/	yzed: ration: nits /Kg	2007-04-06 2007-04-06 Dil. 1	Spike Amount 100	Ma Re: <3	trix sult 3.25	Preparent Rec.	ared By	: JS : JS Rec. Limit
Chloride  Laboratory Control  QC Batch: 36262  Prep Batch: 31462  Param  Chloride  Percent recovery is bar	I Reserved sed on the spike result LCSD	QC Prepar  CCS esult Un 101 mg/ t. RPD is base	yzed: ration: nits /Kg ed on the	2007-04-06 2007-04-06 Dil. 1	Spike Amount 100	Ma Re: <3	.trix sult 3.25 esult. Rec.	Rec.	ared By	: JS : JS Rec. Limit
Chloride  Laboratory Control  QC Batch: 36262	I Reserved to the spike result	QC Prepar  CCS esult Un 101 mg/ t. RPD is base	yzed: ration: nits /Kg ed on the	2007-04-06 2007-04-06 Dil. 1 e spike and	Spike Amount 100 I spike dup	Ma Re: <3	trix sult 3.25 esult.	Rec. 101	ared By	: JS Rec.

Matrix Spike (MS-1) Spiked Sample: 121107

QC Batch: 36262

Date Analyzed:

2007-04-06

Analyzed By: JS

Prep Batch: 31462

QC Preparation:

2007-04-06

Prepared By: JS

		MS			$\mathbf{Spike}$	Matrix		Rec.
Param		Result	$_{ m Units}$	Dil.	Amount	Result	Rec.	Limit
Chloride	1	250	mg/Kg	4	400	66.6	46	84.6 - 117

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.	$\operatorname{Limit}$	RPD	$\mathbf{Limit}$
Chloride	2	249	mg/Kg	4	400	66.6	46	84.6 - 117	0	20

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

<sup>&</sup>lt;sup>1</sup>Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

<sup>&</sup>lt;sup>2</sup>Matrix spike recovery out of control limits due to matrix interference. Use LCS/LCSD to demonstrate analysis is under control.

Work Order: 7040615

Page Number: 5 of 5

CI.		/TCI37	٠,
ota	naara	(ICV-	· Т )

QC Batch: 36262

Date Analyzed: 2007-04-06

Analyzed By: JS

			$_{ m ICVs}$	ICVs	ICVs	Percent	
			$\operatorname{True}$	Found	Percent	Recovery	Date
Param	$\operatorname{Flag}$	${ m Units}$	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	99.7	100	85 - 115	2007-04-06

Standard (CCV-1)

QC Batch: 36262

Date Analyzed: 2007-04-06

Analyzed By: JS

			CCVs	CCVs	$\mathrm{CCVs}$	Percent	
			$\operatorname{True}$	Found	Percent	Recovery	Date
Param	$\operatorname{Flag}$	$\mathbf{Units}$	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2007-04-06