Summary Report

Dorsey Rogers
Cimarex
207 S Mesa
Carlsbad, NM, 88220

Report Date: May 30, 2007

Work Order: 7052912

Project Location: S23 T255 R26E,Eddy Co.,NM
Project Name: API-30-015-33563
Project Number: Wigeon 23 Fed #1

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
125649	1-NE Quad 10'	soil	2007-05-25	10:20	2007-05-29
125650	2-SE Quad 10'	soil	2007-05-25	10:35	2007-05-29
125651	3-N Center 10'	soil	2007-05-25	10:45	2007-05-29
125652	4-S Center 10'	soil	2007-05-25	11:05	2007-05-29
125653	5-NW Quad 10'	soil	2007-05-25	11:26	2007-05-29
125654	6- SW Quad 10'	soil	2007-05-25	11:30	2007-05-29
125655	7- Background 0-6 Inch	soil	2007-05-25	11:50	2007-05-29

Sample: 125649 - 1-NE Quad 10'

Param	Flag	Result	Units	RL
Chloride		**411**	mg/Kg	5.00

Sample: 125650 - 2-SE Quad 10'

Param	Flag	Result	Units	RL
Chloride		**253**	mg/Kg	5.00

Sample: 125651 - 3-N Center 10'

Param	Flag	Result	Units	RL
Chloride		**310**	mg/Kg	5.00

Sample: 125652 - 4-S Center 10'

Param	Flag	Result	Units	RL
Chloride		**236**	mg/Kg	5.00

Sample: 125653 - 5-NW Quad 10'

Param	Flag	Result	Units	RL
Chloride		**143**	mg/Kg	5.00

Sample: 125654 - 6- SW Quad 10'

Param	Flag	Result	Units	RL
Chloride		**648**	mg/Kg	5.00

Sample: 125655 - 7- Background 0-6 Inch

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: May 30, 2007

Work Order: 7052912

Project Location: S23 T255 R26E,Eddy Co.,NM
Project Name: API-30-015-33563
Project Number: Wigeon 23 Fed #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
125649	1-NE Quad 10'	soil	2007-05-25	10:20	2007-05-29
125650	2-SE Quad 10'	soil	2007-05-25	10:35	2007-05-29
125651	3-N Center 10'	soil	2007-05-25	10:45	2007-05-29
125652	4-S Center 10'	soil	2007-05-25	11:05	2007-05-29
125653	5-NW Quad 10'	soil	2007-05-25	11:26	2007-05-29
125654	6- SW Quad 10'	soil	2007-05-25	11:30	2007-05-29
125655	7- Background 0-6 Inch	soil	2007-05-25	11:50	2007-05-29

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 API-30-015-33563 were received by TraceAnalysis, Inc. on 2007-05-29 and assigned to work order 7052912. Samples for work order 7052912 were received intact at a temperature of 6 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 7052912 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: 125649 - 1-NE Quad 10'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37627	Date Analyzed:	2007-05-29	Analyzed By:	JS
Prep Batch:	32602	Sample Preparation:	2007-05-29	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**411**	mg/Kg	10	5.00

Sample: 125650 - 2-SE Quad 10'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37627	Date Analyzed:	2007-05-29	Analyzed By:	JS
Prep Batch:	32602	Sample Preparation:	2007-05-29	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**253**	mg/Kg	10	5.00

Sample: 125651 - 3-N Center 10'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37627	Date Analyzed:	2007-05-29	Analyzed By:	JS
Prep Batch:	32602	Sample Preparation:	2007-05-29	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**310**	mg/Kg	10	5.00

Sample: 125652 - 4-S Center 10'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37627	Date Analyzed:	2007-05-29	Analyzed By:	JS
Prep Batch:	32602	Sample Preparation:	2007-05-29	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**236**	mg/Kg	10	5.00

Sample: 125653 - 5-NW Quad 10'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37627	Date Analyzed:	2007-05-29	Analyzed By:	JS
Prep Batch:	32602	Sample Preparation:	2007-05-29	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**143**	mg/Kg	10	5.00

Sample: 125654 - 6- SW Quad 10'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37627	Date Analyzed:	2007-05-29	Analyzed By:	JS
Prep Batch:	32602	Sample Preparation:	2007-05-29	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		**648**	mg/Kg	100	5.00

Sample: 125655 - 7- Background 0-6 Inch

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37628	Date Analyzed:	2007-05-29	Analyzed By:	JS
Prep Batch:	32603	Sample Preparation:	2007-05-29	Prepared By:	JS

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

Method Blank (1) QC Batch: 37627

QC Batch:	37627	Date Analyzed:	2007-05-29	Analyzed By:	JS
Prep Batch:	32602	QC Preparation:	2007-05-29	Prepared By:	JS

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

Method Blank (1) QC Batch: 37628

QC Batch:	37628	Date Analyzed:	2007-05-29	Analyzed By:	JS
Prep Batch:	32603	QC Preparation:	2007-05-29	Prepared By:	JS

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

Laboratory Control Spike (LCS-1)

QC Batch:	37627	Date Analyzed:	2007-05-29	Analyzed By:	JS
Prep Batch:	32602	QC Preparation:	2007-05-29	Prepared By:	JS

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	100	mg/Kg	1	100	<3.25	100	90 - 110	0	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: 37628 | Date Analyzed: 2007-05-29 | Analyzed By: JS
Prep Batch: 32603 | QC Preparation: 2007-05-29 | Prepared By: JS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	101	mg/Kg	1	100	<3.25	101	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	101	mg/Kg	1	100	<3.25	101	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: 125654

QC Batch: 37627 | Date Analyzed: 2007-05-29 | Analyzed By: JS
Prep Batch: 32602 | QC Preparation: 2007-05-29 | Prepared By: JS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride [1]	904	mg/Kg	100	10000	648	2	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]	982	mg/Kg	100	10000	648	3	84.6 - 117	8	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: 125655

QC Batch: 37628 | Date Analyzed: 2007-05-29 | Analyzed By: JS
Prep Batch: 32603 | QC Preparation: 2007-05-29 | Prepared By: JS

[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.

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	[3]	212	mg/Kg	4	400	17.4	49	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]	207	mg/Kg	4	400	17.4	47	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: 37627 Date Analyzed: 2007-05-29 Analyzed By: JS

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2007-05-29

Standard (CCV-1)

QC Batch: 37627 Date Analyzed: 2007-05-29 Analyzed By: JS

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.4	99	85 - 115	2007-05-29

Standard (ICV-1)

QC Batch: 37628 Date Analyzed: 2007-05-29 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	2007-05-29

Standard (CCV-1)

QC Batch: 37628 Date Analyzed: 2007-05-29 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	2007-05-29

[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.

LAB Order ID # 7052912 Page _____ of _____

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Address: (Street, City, Zip) PO BOX 1856 — Fax #: 505-391-9687

Contact Person: JUSTIN HUTCHINS — E-mail: jthutchins@leaco.net

Invoice to: (If different from above) CIMAREX — DORSEY ROGERS

Project #: WIGEON Z3 FED #1 — Project Name: API 30-015-33563

Project Location (including state): S23 T25S R26E EDDY CO., NM — Sampler Signature:

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
122949	1 - NE QUAD 10'	1	4oz		X								X			5/25/07	10:20A
50	2 - SE QUAD 10'	1			X								X				10:35A
51	3 - N CENTER 10'	1			X								X				10:45A
52	4 - S CENTER 10'	1			X								X				11:05A
53	5 - NW QUAD 10'	1			X								X				11:20A
54	6 - SW QUAD 10'	1			X								X				11:30A
55	7 - BACKGROUND 0.6'	1			X								X				11:50A

ANALYSIS REQUEST (Circle or Specify Method No.)

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	Chlorides				Rush	Turn Around Time if different from standard	Hold
																	X				X		
																	X				X		
																	X				X		
																	X				X		
																	X				X		
																	X				X		
																	X				X		

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	5/29/07	11:10A			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by: Helen Lowe	Date: 05/29/07	Time: 11:15AM

LAB USE ONLY

Intact (Y) N

Headspace Y / N

Temp 6°C

Log-in-Review MS

REMARKS: PLEASE EMAIL COPY OF RESULTS TO ALLEN HODGE & MIKE BRATCHER

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

Carrier # Walk-in

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

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