

Summary Report

Dorsey Rogers
Cimarex
207 S Mesa
Carlsbad, NM, 88220

Report Date: May 30, 2007

Work Order: 7052911



Project Location: 526 T17S R29E Eddy Co.,NM
Project Name: API 30-015-35025
Project Number: Keely 26 Fed #1

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
125641	1-North Bottom 17'	soil	2007-05-24	10:10	2007-05-29
125642	2- Center Bottom 17'	soil	2007-05-24	10:20	2007-05-29
125643	3-South Bottom 17'	soil	2007-05-24	10:32	2007-05-29
125644	4-West Wall 10'	soil	2007-05-24	11:00	2007-05-29
125645	5-North Wall 10'	soil	2007-05-24	11:15	2007-05-29
125646	6-East Wall 10'	soil	2007-05-24	11:20	2007-05-29
125647	7-Ramp	soil	2007-05-24	11:33	2007-05-29
125648	8-Background 0-6 Inch	soil	2007-05-24	11:40	2007-05-29

Sample: 125641 - 1-North Bottom 17'

Param	Flag	Result	Units	RL
Chloride		90.4	mg/Kg	5.00

Sample: 125642 - 2- Center Bottom 17'

Param	Flag	Result	Units	RL
Chloride		95.9	mg/Kg	5.00

Sample: 125643 - 3-South Bottom 17'

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

Sample: 125644 - 4-West Wall 10'

Param	Flag	Result	Units	RL
Chloride		104	mg/Kg	5.00

Sample: 125645 - 5-North Wall 10'

Param	Flag	Result	Units	RL
Chloride		108	mg/Kg	5.00

Sample: 125646 - 6-East Wall 10'

Param	Flag	Result	Units	RL
Chloride		105	mg/Kg	5.00

Sample: 125647 - 7-Ramp

Param	Flag	Result	Units	RL
Chloride		16.5	mg/Kg	5.00

Sample: 125648 - 8-Background 0-6 Inch

Param	Flag	Result	Units	RL
Chloride		10.6	mg/Kg	5.00



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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: 7052911



Project Location: 526 T17S R29E Eddy Co., NM
Project Name: API 30-015-35025
Project Number: Keely 26 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
125641	1-North Bottom 17'	soil	2007-05-24	10:10	2007-05-29
125642	2- Center Bottom 17'	soil	2007-05-24	10:20	2007-05-29
125643	3-South Bottom 17'	soil	2007-05-24	10:32	2007-05-29
125644	4-West Wall 10'	soil	2007-05-24	11:00	2007-05-29
125645	5-North Wall 10'	soil	2007-05-24	11:15	2007-05-29
125646	6-East Wall 10'	soil	2007-05-24	11:20	2007-05-29
125647	7-Ramp	soil	2007-05-24	11:33	2007-05-29
125648	8-Background 0-6 Inch	soil	2007-05-24	11:40	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.

This report consists of a total of 7 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 API 30-015-35025 were received by TraceAnalysis, Inc. on 2007-05-29 and assigned to work order 7052911. Samples for work order 7052911 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 7052911 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: 125641 - 1-North Bottom 17'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37626	Date Analyzed:	2007-05-29	Analyzed By:	JS
Prep Batch:	32601	Sample Preparation:	2007-05-29	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		90.4	mg/Kg	4	5.00

Sample: 125642 - 2- Center Bottom 17'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37626	Date Analyzed:	2007-05-29	Analyzed By:	JS
Prep Batch:	32601	Sample Preparation:	2007-05-29	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		95.9	mg/Kg	4	5.00

Sample: 125643 - 3-South Bottom 17'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37626	Date Analyzed:	2007-05-29	Analyzed By:	JS
Prep Batch:	32601	Sample Preparation:	2007-05-29	Prepared By:	JS

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

Sample: 125644 - 4-West Wall 10'

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	37626	Date Analyzed:	2007-05-29	Analyzed By:	JS
Prep Batch:	32601	Sample Preparation:	2007-05-29	Prepared By:	JS

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		104	mg/Kg	4	5.00

Sample: 125645 - 5-North Wall 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		108	mg/Kg	4	5.00

Sample: 125646 - 6-East Wall 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		105	mg/Kg	4	5.00

Sample: 125647 - 7-Ramp

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		16.5	mg/Kg	2	5.00

Sample: 125648 - 8-Background 0-6 Inch

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		10.6	mg/Kg	2	5.00

Method Blank (1) QC Batch: 37626

QC Batch: 37626 Date Analyzed: 2007-05-29 Analyzed By: JS
Prep Batch: 32601 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: 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

Laboratory Control Spike (LCS-1)

QC Batch: 37626
Prep Batch: 32601

Date Analyzed: 2007-05-29
QC Preparation: 2007-05-29

Analyzed By: JS
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	101	mg/Kg	1	100	<3.25	101	90 - 110	1	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: 37627
Prep Batch: 32602

Date Analyzed: 2007-05-29
QC Preparation: 2007-05-29

Analyzed By: JS
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.

Matrix Spike (MS-1) Spiked Sample: 125644

QC Batch: 37626
Prep Batch: 32601

Date Analyzed: 2007-05-29
QC Preparation: 2007-05-29

Analyzed By: JS
Prepared By: JS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	¹ 306	mg/Kg	4	400	104	50	84.6 - 117

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

continued ...

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

matrix spikes continued ...

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	² 306	mg/Kg	4	400	104	50	84.6 - 117	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
Prep Batch: 32602

Date Analyzed: 2007-05-29
QC Preparation: 2007-05-29

Analyzed By: JS
Prepared By: JS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	³ 904	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	⁴ 982	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.

Standard (ICV-1)

QC Batch: 37626

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: 37626

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	99.8	100	85 - 115	2007-05-29

Standard (ICV-1)

QC Batch: 37627

Date Analyzed: 2007-05-29

Analyzed By: JS

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

Report Date: May 30, 2007
Keely 26 Fed #1

Work Order: 7052911
API 30-015-35025

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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

TraceAnalysis, Inc.

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Contact Person: JUSTIN HUTCHINS E-mail: j.hutchins@leaco.net
Invoice to: CIMAREX - DORSEY ROGERS
(If different from above) Project #: KEELY 26 FED #1 Project Name: APZ 39-015-35025
Project Location (including state): S26 T17S R29E; EDDY Co., NM Sampler Signature: [Signature]

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD						SAMPLING		MTBE 8021B / 602	BTX 8021B / 602	TPH 418.1 / TX1005	TPH 8015 GRO / DRO	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As	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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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Received at Laboratory by: [Signature] Date: 05/29/07 Time: 11:15AM

LAB USE ONLY

Intact 0 / N
Headspace Y / N
Temp 6°C
Log-in-Review md

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

THANK YOU

Carrier # 2. talk-in

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

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