Keely 26 Fed #1

Work Order: 7052911 API 30-015-35025

Page Number: 1 of 2 526 T17S R29E Eddy Co.,NM

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: Project Number: Keely 26 Fed #1

API 30-015-35025

			Date	\mathbf{Time}	Date
Sample	Description	Matrix	Taken	Taken	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	m mg/Kg	5.00

Sample: 125643 - 3-South Bottom 17'

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

Sample: 125644 - 4-West Wall 10'

Param	Flag	Result	Units	RL
Chloride		104	mg/Kg	5.00

Report Date: May 30, 2007		Work Order: 7052911	Page Number: 2 of 2		
Keely 26 Fed #1		API 30-015-35025	526 T17S R29E	E Eddy Co.,NM	
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	${ m Units}$	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	



6701 Aberdeen Avenue, Suite 9 200 East Sunset Road, Suite E 5002 Basin Street, Suite A1 6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132

Lubbock, Texas 79424 El Paso, Texas 79922 Midland, Texas 79703

800 • 378 • 1296 888 • 588 • 3443

806 • 794 • 1296 915 • 585 • 3443 432 • 689 • 6301

FAX 806 • 794 • 1298 FAX 915 • 585 • 4944 FAX 432 • 689 • 6313

817 • 201 • 5260

E-Mail: lab@traceanalysis.com

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: Project Number:

API 30-015-35025 Keely 26 Fed #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	Taken	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.

Keely 26 Fed #1

Work Order: 7052911 API 30-015-35025

Page Number: 3 of 7 526 T17S R29E Eddy Co.,NM

Analytical Report

Sample: 125641 - 1-North Bottom 17'

Analysis:

Chloride (Titration)

QC Batch: 37626 Prep Batch: 32601 Analytical Method: Date Analyzed:

Sample Preparation:

SM 4500-Cl B 2007-05-29 2007-05-29

Prep Method: N/A Analyzed By: JSJS

Prepared By:

4

RL

Parameter Chloride

Flag Result 90.4

Units Dilution mg/Kg

RL5.00

JS

5.00

RL

5.00

Sample: 125642 - 2- Center Bottom 17'

Analysis: QC Batch:

Prep Batch:

Chloride (Titration) 37626

32601

Analytical Method: SM 4500-Cl B Date Analyzed: 2007-05-29 Sample Preparation: 2007-05-29

Prep Method: N/A Analyzed By: JS

RL

Parameter Flag Chloride

Result 95.9

Units mg/Kg Prepared By:

Dilution RL5.00

Sample: 125643 - 3-South Bottom 17'

Analysis: QC Batch:

Prep Batch:

Chloride (Titration)

Analytical Method: 37626 Date Analyzed: Sample Preparation: 32601

SM 4500-Cl B 2007-05-29

2007-05-29

Prep Method: N/A Analyzed By: JSJSPrepared By:

RL

Flag Parameter Result Chloride <20.0

Units mg/Kg Dilution RL

Flag

Analysis: QC Batch:

Parameter

Chloride

Sample: 125644 - 4-West Wall 10' Chloride (Titration)

37626 Prep Batch: 32601

Analytical Method: Date Analyzed: Sample Preparation:

SM 4500-Cl B 2007-05-29

Prep Method: N/A Analyzed By: JS

RL

Result 104 2007-05-29

Units

mg/Kg

Prepared By: JS

Dilution

Sample: 125645 - 5-North Wall 10'

Analysis: QC Batch: Chloride (Titration)

37627 Prep Batch: 32602

Analytical Method: Date Analyzed: Sample Preparation:

SM 4500-Cl B 2007-05-29 2007-05-29

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

Keely 26 Fed #1

Work Order: 7052911 API 30-015-35025

Page Number: 4 of 7 526 T17S R29E Eddy Co.,NM

		m RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		108	mg/Kg	4	5.00

Sample: 125646 - 6-East Wall 10'

QC Batch:

Chloride (Titration)

37627 Prep Batch: 32602 Analytical Method: Date Analyzed:

SM 4500-Cl B 2007-05-29

2007-05-29 Sample Preparation:

Prep Method: N/A Analyzed By: JS

Prepared By: JS

 \mathbf{Result} Parameter Flag Chloride

RLUnits Dilution RL105 mg/Kg 5.00

Sample: 125647 - 7-Ramp

Analysis: QC Batch: Chloride (Titration)

37627 Date Analyzed:

Analytical Method: SM 4500-Cl B 2007-05-29

Prep Method: N/A Analyzed By: JS

Prep Batch:

32602

Sample Preparation: 2007-05-29

Prepared By: JS

RLResult Units Dilution RLParameter Flag Chloride 16.5 mg/Kg 2 5.00

Sample: 125648 - 8-Background 0-6 Inch

Analysis: QC Batch: Chloride (Titration)

37627 Prep Batch:

Analytical Method: Date Analyzed:

SM 4500-Cl B 2007 - 05 - 29

Prep Method: N/A Analyzed By: $_{
m JS}$

32602

2007-05-29 Sample Preparation:

Prepared By: JS

RLParameter Flag Result Units Dilution RLChloride 10.6 5.00 mg/Kg

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:

MDL Parameter Flag Result Units RLChloride < 3.25 mg/Kg 5

Method Blank (1)

QC Batch: 37627

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

Keely 26 Fed #1

Work Order: 7052911 API 30-015-35025

Page Number: 5 of 7 526 T17S R29E Eddy Co.,NM

		MDL		
Parameter	Flag	Result	${f Units}$	RL
Chloride		< 3.25	mg/Kg	5

Laboratory Control Spike (LCS-1)

QC Batch:

37626 Prep Batch: 32601

Date Analyzed:

2007-05-29

Analyzed By: JS

Prepared By: JS

_	LCS	T T 1.		Spike	Matrix	_	Rec.
Param	\mathbf{Result}	Units	Dil.	Amount	Result	Rec.	Limit
Chloride	100	mg/Kg	1	100	< 3.25	100	90 - 110

QC Preparation: 2007-05-29

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

	$_{ m LCSD}$			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	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: QC Preparation:

2007-05-29 2007-05-29 Analyzed By: JS

Prepared By: JS

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

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

	LCSD			Spike	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	\mathbf{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

MS Spike Matrix Rec. Param Units Dil. ${\bf Limit}$ Result Amount Result Rec. Chloride 306 mg/Kg 400 104 50 84.6 - 117

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

 $continued \dots$

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

Keely 26 Fed #1

Work Order: 7052911 API 30-015-35025

Page Number: 6 of 7 526 T17S R29E Eddy Co.,NM

matrix spikes continued . . .

Param		$rac{ ext{MSD}}{ ext{Result}}$	Units	Dil.	$\begin{array}{c} {\rm Spike} \\ {\rm Amount} \end{array}$	Matrix Result	Rec.	$egin{array}{l} { m Rec.} \\ { m Limit} \end{array}$	RPD	RPD Limit
		MSD			Spike	Matrix		Rec.		RPD
Param		Result	Units	Dil.	Amount	Result	Rec.	\mathbf{Limit}	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

Analyzed By: JS

QC Preparation: 2007-05-29

Prepared By: JS

		MS			Spike	Matrix		Rec .
Param		Result	\mathbf{Units}	Dil.	Amount	Result	Rec.	${f Limit}$
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.

		MSD			Spike	Matrix		Rec.		RPD
Param		Result	\mathbf{Units}	Dil.	Amount	Result	Rec.	Limit	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

			ICVs True	ICVs Found	$\begin{array}{c} \text{ICVs} \\ \text{Percent} \end{array}$	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	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

			CCVs	\mathbf{CCVs}	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	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.

Keely 26 Fed #1

Work Order: 7052911 API 30-015-35025 Page Number: 7 of 7 526 T17S R29E Eddy Co.,NM

			ICVs True	ICVs Found	$\begin{array}{c} \rm ICVs \\ \rm Percent \end{array}$	Percent Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	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

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

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TraceAnalysis, Inc.

email: lab@traceanalysis.com

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